

From: Dombrowski, Frank J <frank.dombrowski@wecenergygroup.com>
Sent: Wednesday, July 13, 2022 3:27 PM
To: gielniewski.margaret@epa.gov
Cc: Marcus D Byker; DNR RR NER; Korpela, Adrienne/MKE; Krueger, Sarah E - DNR
Subject: WPSC Marinette Former MGP - June 2022 Monthly Progress Report (CERCLA Docket No. V-W-18-C-009)
Attachments: 2022-07-13 WPSC-USEPA June 2022 WPSC Marinette Monthly Progress Report.pdf

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Hi Margaret,

Please find attached the June 2022 monthly progress report for the WPSC Marinette, WI Former MGP Site.

As always, if you have any questions or if additional information is needed, please let me know.

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
Cell: (414) 587-4467
Fax: (414) 221-2022

*Serving WEC Energy Group, We Energies, Wisconsin Public Service, Michigan Gas Utilities,
Minnesota Energy Resources, Peoples Gas and North Shore Gas*



Wisconsin Public Service Corporation

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001

www.wisconsinpublicservice.com

July 13, 2022

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

**RE: June 2022 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 May 2022 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by June 15, 2022.
- Continued to prepare *Pre-design Investigation Summary Report* and *Focused Feasibility Study*, which will be submitted to USEPA by July 8, 2022.

2) ANALYTICAL AND OTHER TESTING RESULTS RECEIVED

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

3) PROJECTED WORK

WPSC Actions

- Submit monthly progress report to USEPA by the 15th of the month.
- Finalize *Focused Feasibility Report*, including *Pre-design Investigation Summary Report* and submit to USEPA by July 8, 2022.

USEPA Actions

- None

4) PROBLEMS OR POTENTIAL PROBLEMS ENCOUNTERED

- None

5) ACTUAL OR PLANNED RESOLUTION OF PROBLEMS OR POTENTIAL PROBLEMS

- None

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

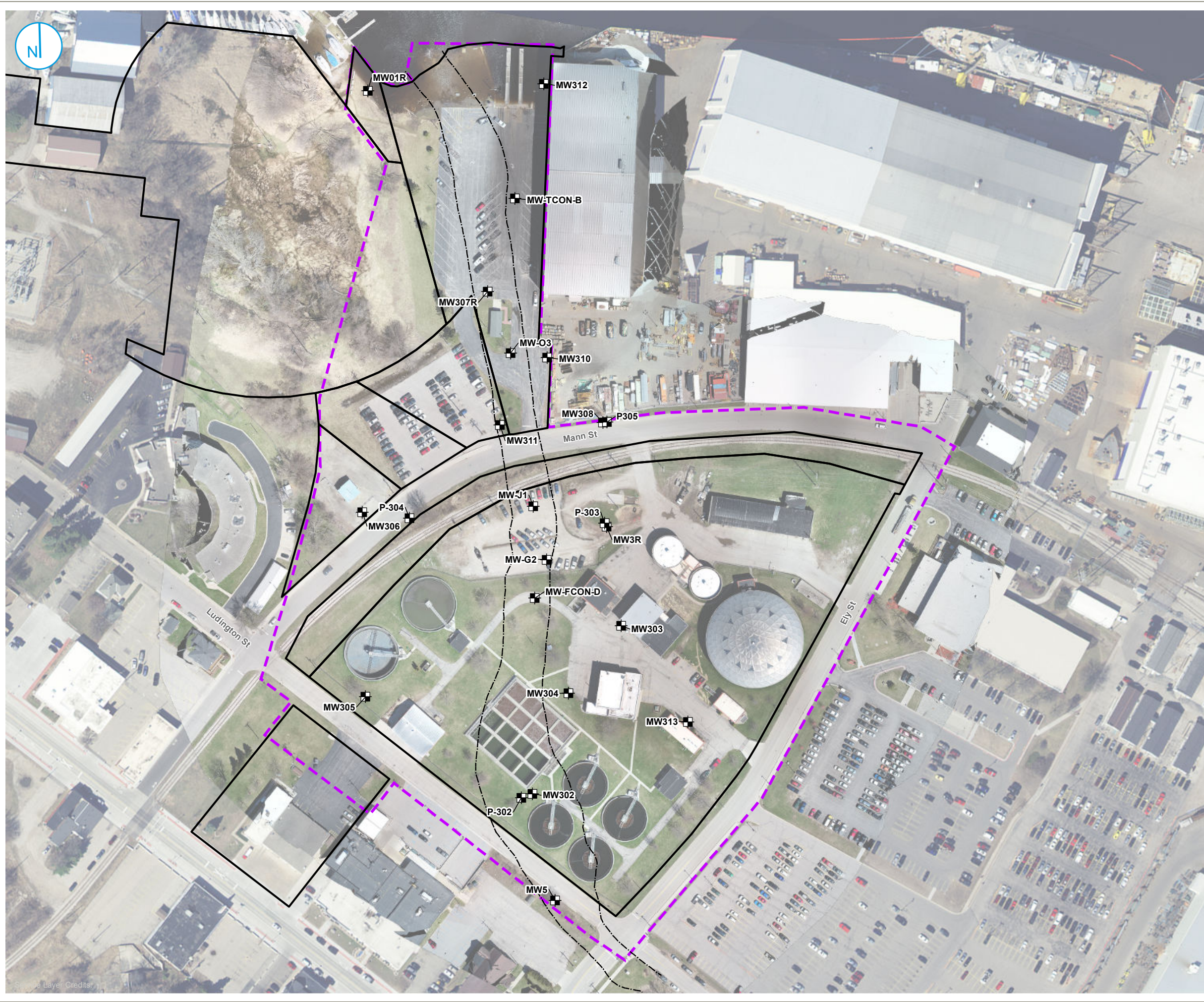
Sincerely,







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

Enclosures: Figure 1 – Monitoring Wells
 Table 1 – April 2022 Groundwater Analytical Results Compared to the
 Groundwater Standard, Tap Water Criteria, and WI PAL
 Marinette MGP Groundwater Level IV Data Package (on SharePoint)
 [Marinette MGP June 2022 SharePoint Link](#)

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



-  EXISTING MONITORING WELL LOCATION
-  FORMER SLOUGH/ LOG RUN
-  PARCEL BOUNDARY (MARINETTE COUNTY, ACCESSED 7/16/2018)
-  APPROXIMATE EXTENT OF UPLAND SITE



MONITORING WELLS

WSPC MARINETTE FORMER MGP SITE
MARINETTE, WISCONSIN

FIGURE 1



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

Monthly Progress Report - April 2022 Sample Results
Wisconsin Public Service Corporation
Marinette Former MGP
Marinette, Wisconsin
BRRTS# 023800047 CERCLIS ID: WIN000509952

Main data table with columns for Sample Location, Sample Date, and various chemical parameters (BTEX, PAH, Metals). Includes summary rows for WI Groundwater SL, WI Groundwater PAL, and Tap Water RSL.

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

Legend table with colored boxes: Bold (WI Groundwater SL), Underline (WI Groundwater PAL), Italic (Tap Water RSL), Pink Highlighting (results exceeding WI Groundwater SL), Yellow Highlighting (analyte exceedance in statistics).

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

Results & Flags:

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

Acronyms:

* = Field parameters not analyzed due to (1) presence of dense non-aqueous phase liquids (DNAPL) or (2) not enough sample volume
(N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol
µg/L = micrograms per liter
µS/cm = microsiemens per centimeter (micromhos per centimeter or µmhos/cm)
BRRTS = Bureau for Remediation and Redevelopment Tracking System
BTEX = Benzene, Toluene, Ethylbenzene and Xylene
CERCLIS = Comprehensive Environmental Response, Compensation, and Liability Information System
Deg C = degrees Celsius
EPA = Environmental Protection Agency
GW = Groundwater

mg/L = milligrams per liter
MGP = manufactured gas plant
NA = Not Applicable
NO2 + NO3 = nitrite plus nitrate
NS = No Standard or Screening Level
NTU = Nephelometric Turbidity Unit
PAH = Polycyclic Aromatic Hydrocarbon
PAL = Preventive Action Limit
RSL = Regional Screening Level
s.u. = standard units
SL = Screening Level
USEPA = United States Environmental Protection Agency
VISLs = Vapor Intrusion Screening Levels
WI = Wisconsin

Screening Levels and Standards:

PAL from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020. Results that attain or exceed the PAL are considered to be in exceedance. Groundwater and Tap Water Screening Levels used on this table were presented in the Multi-Site Risk Assessment Framework (RAF) Addendum Revision 6, issued in August 2017. Since that time, nine revisions of the RSLs have been published by EPA through May 2022. The RSLs necessary for the MGP-related constituents evaluated in this table are up to date with the most recent revision.

Groundwater stabilization parameters / water-quality-indicator parameters were analyzed at time of sampling using an InSitu Aquatroll Multiparameter sonde. Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.



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

Monthly Progress Report - April 2022 Sample Results
Wisconsin Public Service Corporation
Marinette Former MGP
Marinette, Wisconsin
BRRTS# 0238000047 CERCLIS ID: WIN000509952

Main data table with columns: 9-digit Code, Sample Location, Sample Date, Metal (Silver, Vanadium, Zinc), Inorganic (Alkalinity, Nitrogen, Sulfate), Organic (Methane), Field (Dissolved oxygen, Groundwater depth, Oxidation Reduction Potential, pH, Specific Conductance, Temperature, Turbidity), Reporting Units, WI Groundwater SL, WI Groundwater PAL, Tap Water RSL.

Summary table with columns: Total Number of Samples Analyzed, Number of Detections, Min, Max, WI Groundwater SL, Number of Samples that Exceed WI Groundwater SL, WI Groundwater PAL, Number of Samples that Exceed WI Groundwater PAL, Tap Water RSL, Number of Samples that Exceed Tap Water RSL.

[O:MGP 6/9/22, C: ECB 6/10/22]

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

Legend table with rows: Bold, Underline, Italic, Pink Highlighting, Yellow Highlighting. Corresponding labels: WI Groundwater SL, WI Groundwater PAL, Tap Water RSL.

result exceeds the WI Groundwater SL; results only exceeding the PAL and/or Tap Water criteria are not highlighted.
analyte exceedance in statistics for one or more samples

Results & Flags:

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

Acronyms:

- * = Field parameters not analyzed due to (1) presence of dense non-aqueous phase liquids (DNAPL) or (2) not enough sample volume
(N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol
µg/L = micrograms per liter
µS/cm = microsiemens per centimeter (micromhos per centimeter or µmhos/cm)
BRRTS = Bureau for Remediation and Redevelopment Tracking System
BTEX = Benzene, Toluene, Ethylbenzene and Xylene
CERCLIS = Comprehensive Environmental Response, Compensation, and Liability Information System
Deg C = degrees Celsius
EPA = Environmental Protection Agency
GW = Groundwater

- mg/L = milligrams per liter
MGP = manufactured gas plant
NA = Not Applicable
NO2 + NO3 = nitrite plus nitrate
NS = No Standard or Screening Level
NTU = Nephelometric Turbidity Unit
PAH = Polycyclic Aromatic Hydrocarbon
PAL = Preventive Action Limit
RSL = Regional Screening Level
s.u. = standard units
SL = Screening Level
USEPA = United States Environmental Protection Agency
VISLs = Vapor Intrusion Screening Levels
WI = Wisconsin

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Groundwater stabilization parameters / water-quality-indicator parameters were analyzed at time of sampling using an InSitu Aquatroll Multiparameter sonde.
Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

ANALYTICAL LABORATORY REPORTS
Provided via SharePoint

April 14, 2022

Scott Woods
Ramboll

RE: Project: MARINETTE FORMER MGP
Pace Project No.: 40243051

Dear Scott Woods:

Enclosed are the analytical results for sample(s) received by the laboratory on April 07, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MARINETTE FORMER MGP

Pace Project No.: 40243051

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MARINETTE FORMER MGP

Pace Project No.: 40243051

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40243051001	040622015	Water	04/06/22 08:35	04/07/22 08:20
40243051002	040622023	Water	04/06/22 13:00	04/07/22 08:20
40243051003	040622024	Water	04/06/22 13:30	04/07/22 08:20
40243051004	040622025	Water	04/06/22 14:00	04/07/22 08:20
40243051005	040622026	Water	04/06/22 14:30	04/07/22 08:20
40243051006	040622027	Water	04/06/22 14:35	04/07/22 08:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MARINETTE FORMER MGP

Pace Project No.: 40243051

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40243051001	040622015	EPA 8270E by SIM	RJN	6	PASI-G
		EPA 8260	LAP	5	PASI-G
40243051002	040622023	EPA 8270E by SIM	RJN	6	PASI-G
		EPA 8260	LAP	5	PASI-G
40243051003	040622024	EPA 8270E by SIM	RJN	6	PASI-G
		EPA 8260	LAP	5	PASI-G
40243051004	040622025	EPA 8270E by SIM	RJN	6	PASI-G
		EPA 8260	LAP	5	PASI-G
40243051005	040622026	EPA 8270E by SIM	RJN	6	PASI-G
		EPA 8260	LAP	5	PASI-G
40243051006	040622027	EPA 8270E by SIM	RJN	6	PASI-G
		EPA 8260	LAP	5	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MARINETTE FORMER MGP

Pace Project No.: 40243051

Method: EPA 8270E by SIM

Description: 8270E MSSV PAH

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

Date: April 14, 2022

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

QC Batch: 412622

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

- 040622025 (Lab ID: 40243051004)
 - 2-Fluorobiphenyl (S)
 - Terphenyl-d14 (S)
- 040622026 (Lab ID: 40243051005)
 - 2-Fluorobiphenyl (S)
 - Terphenyl-d14 (S)
- 040622027 (Lab ID: 40243051006)
 - 2-Fluorobiphenyl (S)
 - Terphenyl-d14 (S)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MARINETTE FORMER MGP

Pace Project No.: 40243051

Method: EPA 8270E by SIM

Description: 8270E MSSV PAH

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

Date: April 14, 2022

QC Batch: 412622

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MARINETTE FORMER MGP

Pace Project No.: 40243051

Method: EPA 8260

Description: 8260 MSV UST

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

Date: April 14, 2022

General Information:

6 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:

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.: 40243051

Sample: 040622015 **Lab ID: 40243051001** Collected: 04/06/22 08:35 Received: 04/07/22 08:20 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	<0.97	ug/L	2.5	0.97	50	04/08/22 12:25	04/12/22 18:22	50-32-8	
Benzo(b)fluoranthene	1.1J	ug/L	2.5	0.96	50	04/08/22 12:25	04/12/22 18:22	205-99-2	
Chrysene	1.4J	ug/L	2.5	1.3	50	04/08/22 12:25	04/12/22 18:22	218-01-9	
Naphthalene	454	ug/L	2.5	0.98	50	04/08/22 12:25	04/12/22 18:22	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	67	%	44-120		50	04/08/22 12:25	04/12/22 18:22	321-60-8	
Terphenyl-d14 (S)	60	%	49-120		50	04/08/22 12:25	04/12/22 18:22	1718-51-0	

8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	669	ug/L	10.0	3.0	10		04/13/22 00:57	71-43-2	
Ethylbenzene	30.9	ug/L	10.0	3.3	10		04/13/22 00:57	100-41-4	
Surrogates									
Toluene-d8 (S)	95	%	70-130		10		04/13/22 00:57	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		10		04/13/22 00:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		10		04/13/22 00:57	2199-69-1	

Sample: 040622023 **Lab ID: 40243051002** Collected: 04/06/22 13:00 Received: 04/07/22 08:20 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	<0.019	ug/L	0.048	0.019	1	04/08/22 12:25	04/11/22 18:24	50-32-8	
Benzo(b)fluoranthene	0.038J	ug/L	0.048	0.019	1	04/08/22 12:25	04/11/22 18:24	205-99-2	
Chrysene	0.034J	ug/L	0.048	0.026	1	04/08/22 12:25	04/11/22 18:24	218-01-9	
Naphthalene	0.095	ug/L	0.048	0.019	1	04/08/22 12:25	04/11/22 18:24	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	64	%	44-120		1	04/08/22 12:25	04/11/22 18:24	321-60-8	
Terphenyl-d14 (S)	67	%	49-120		1	04/08/22 12:25	04/11/22 18:24	1718-51-0	

8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		04/12/22 23:59	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 23:59	100-41-4	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		04/12/22 23:59	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/12/22 23:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	113	%	70-130		1		04/12/22 23:59	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243051

Sample: 040622024 **Lab ID: 40243051003** Collected: 04/06/22 13:30 Received: 04/07/22 08:20 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	<0.98	ug/L	2.5	0.98	50	04/08/22 12:25	04/11/22 18:42	50-32-8	
Benzo(b)fluoranthene	<0.97	ug/L	2.5	0.97	50	04/08/22 12:25	04/11/22 18:42	205-99-2	
Chrysene	<1.3	ug/L	2.5	1.3	50	04/08/22 12:25	04/11/22 18:42	218-01-9	
Naphthalene	274	ug/L	2.5	0.99	50	04/08/22 12:25	04/11/22 18:42	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	59	%	44-120		50	04/08/22 12:25	04/11/22 18:42	321-60-8	
Terphenyl-d14 (S)	55	%	49-120		50	04/08/22 12:25	04/11/22 18:42	1718-51-0	

8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	109	ug/L	2.5	0.74	2.5		04/13/22 02:16	71-43-2	
Ethylbenzene	39.1	ug/L	2.5	0.81	2.5		04/13/22 02:16	100-41-4	
Surrogates									
Toluene-d8 (S)	88	%	70-130		2.5		04/13/22 02:16	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		2.5		04/13/22 02:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	113	%	70-130		2.5		04/13/22 02:16	2199-69-1	

Sample: 040622025 **Lab ID: 40243051004** Collected: 04/06/22 14:00 Received: 04/07/22 08:20 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	<7.5	ug/L	19.2	7.5	400	04/08/22 12:25	04/11/22 19:01	50-32-8	
Benzo(b)fluoranthene	<7.5	ug/L	19.2	7.5	400	04/08/22 12:25	04/11/22 19:01	205-99-2	
Chrysene	<10.2	ug/L	19.2	10.2	400	04/08/22 12:25	04/11/22 19:01	218-01-9	
Naphthalene	4210	ug/L	19.2	7.6	400	04/08/22 12:25	04/11/22 19:01	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	0	%	44-120		400	04/08/22 12:25	04/11/22 19:01	321-60-8	S4
Terphenyl-d14 (S)	0	%	49-120		400	04/08/22 12:25	04/11/22 19:01	1718-51-0	S4

8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	3170	ug/L	40.0	11.8	40		04/13/22 01:17	71-43-2	
Ethylbenzene	185	ug/L	40.0	13.0	40		04/13/22 01:17	100-41-4	
Surrogates									
Toluene-d8 (S)	94	%	70-130		40		04/13/22 01:17	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		40		04/13/22 01:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		40		04/13/22 01:17	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP

Pace Project No.: 40243051

Sample: 040622026 **Lab ID: 40243051005** Collected: 04/06/22 14:30 Received: 04/07/22 08:20 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	<7.8	ug/L	19.8	7.8	400	04/08/22 12:25	04/11/22 19:19	50-32-8	
Benzo(b)fluoranthene	<7.7	ug/L	19.8	7.7	400	04/08/22 12:25	04/11/22 19:19	205-99-2	
Chrysene	<10.5	ug/L	19.8	10.5	400	04/08/22 12:25	04/11/22 19:19	218-01-9	
Naphthalene	3540	ug/L	19.8	7.9	400	04/08/22 12:25	04/11/22 19:19	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	0	%	44-120		400	04/08/22 12:25	04/11/22 19:19	321-60-8	S4
Terphenyl-d14 (S)	0	%	49-120		400	04/08/22 12:25	04/11/22 19:19	1718-51-0	S4

8260 MSV UST

Analytical Method: EPA 8260
Pace Analytical Services - Green Bay

Benzene	2850	ug/L	25.0	7.4	25		04/13/22 01:37	71-43-2	
Ethylbenzene	1360	ug/L	25.0	8.1	25		04/13/22 01:37	100-41-4	
Surrogates									
Toluene-d8 (S)	95	%	70-130		25		04/13/22 01:37	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		25		04/13/22 01:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		25		04/13/22 01:37	2199-69-1	

Sample: 040622027 **Lab ID: 40243051006** Collected: 04/06/22 14:35 Received: 04/07/22 08:20 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	<9.5	ug/L	24.2	9.5	500	04/08/22 12:25	04/11/22 19:38	50-32-8	
Benzo(b)fluoranthene	<9.5	ug/L	24.2	9.5	500	04/08/22 12:25	04/11/22 19:38	205-99-2	
Chrysene	<12.9	ug/L	24.2	12.9	500	04/08/22 12:25	04/11/22 19:38	218-01-9	
Naphthalene	4040	ug/L	24.2	9.7	500	04/08/22 12:25	04/11/22 19:38	91-20-3	
Surrogates									
2-Fluorobiphenyl (S)	0	%	44-120		500	04/08/22 12:25	04/11/22 19:38	321-60-8	S4
Terphenyl-d14 (S)	0	%	49-120		500	04/08/22 12:25	04/11/22 19:38	1718-51-0	S4

8260 MSV UST

Analytical Method: EPA 8260
Pace Analytical Services - Green Bay

Benzene	2660	ug/L	25.0	7.4	25		04/13/22 01:56	71-43-2	
Ethylbenzene	1210	ug/L	25.0	8.1	25		04/13/22 01:56	100-41-4	
Surrogates									
Toluene-d8 (S)	95	%	70-130		25		04/13/22 01:56	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		25		04/13/22 01:56	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		25		04/13/22 01:56	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243051

QC Batch: 412572 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40243051001, 40243051002, 40243051003, 40243051004, 40243051005, 40243051006

METHOD BLANK: 2376029 Matrix: Water
Associated Lab Samples: 40243051001, 40243051002, 40243051003, 40243051004, 40243051005, 40243051006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.30	1.0	04/12/22 16:27	
Ethylbenzene	ug/L	<0.33	1.0	04/12/22 16:27	
1,2-Dichlorobenzene-d4 (S)	%	105	70-130	04/12/22 16:27	
4-Bromofluorobenzene (S)	%	98	70-130	04/12/22 16:27	
Toluene-d8 (S)	%	95	70-130	04/12/22 16:27	

LABORATORY CONTROL SAMPLE: 2376030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	54.0	108	70-132	
Ethylbenzene	ug/L	50	59.1	118	80-123	
1,2-Dichlorobenzene-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376528 2376529

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40243040001 Result	Spike Conc.	Spike Conc.	Result						
Benzene	ug/L	<0.30	50	50	54.6	54.3	109	109	70-132	1	20
Ethylbenzene	ug/L	<0.33	50	50	56.5	56.9	113	114	80-123	1	20
1,2-Dichlorobenzene-d4 (S)	%						98	97	70-130		
4-Bromofluorobenzene (S)	%						99	103	70-130		
Toluene-d8 (S)	%						97	95	70-130		

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243051

QC Batch: 412622 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: 40243051001, 40243051002, 40243051003, 40243051004, 40243051005, 40243051006

METHOD BLANK: 2376292 Matrix: Water
Associated Lab Samples: 40243051001, 40243051002, 40243051003, 40243051004, 40243051005, 40243051006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzo(a)pyrene	ug/L	<0.020	0.050	04/11/22 10:24	
Benzo(b)fluoranthene	ug/L	<0.020	0.050	04/11/22 10:24	
Chrysene	ug/L	<0.027	0.050	04/11/22 10:24	
Naphthalene	ug/L	<0.020	0.050	04/11/22 10:24	
2-Fluorobiphenyl (S)	%	65	44-120	04/11/22 10:24	
Terphenyl-d14 (S)	%	66	49-120	04/11/22 10:24	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 2376293 2376294								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzo(a)pyrene	ug/L	2	1.6	1.6	79	81	71-120	2	20	
Benzo(b)fluoranthene	ug/L	2	1.4	1.6	72	79	62-118	10	20	
Chrysene	ug/L	2	1.9	2.1	95	107	80-120	12	20	
Naphthalene	ug/L	2	1.5	1.8	75	92	60-120	20	20	
2-Fluorobiphenyl (S)	%				67	72	44-120			
Terphenyl-d14 (S)	%				65	70	49-120			

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MARINETTE FORMER MGP

Pace Project No.: 40243051

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 412655

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

ANALYTE QUALIFIERS

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.: 40243051

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40243051001	040622015	EPA 3510	412622	EPA 8270E by SIM	412655
40243051002	040622023	EPA 3510	412622	EPA 8270E by SIM	412655
40243051003	040622024	EPA 3510	412622	EPA 8270E by SIM	412655
40243051004	040622025	EPA 3510	412622	EPA 8270E by SIM	412655
40243051005	040622026	EPA 3510	412622	EPA 8270E by SIM	412655
40243051006	040622027	EPA 3510	412622	EPA 8270E by SIM	412655
40243051001	040622015	EPA 8260	412572		
40243051002	040622023	EPA 8260	412572		
40243051003	040622024	EPA 8260	412572		
40243051004	040622025	EPA 8260	412572		
40243051005	040622026	EPA 8260	412572		
40243051006	040622027	EPA 8260	412572		

REPORT OF LABORATORY ANALYSIS

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Client Name: Ramboll Sample Preservation Receipt Form Project # 40243051

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

Initial when completed: Date/Time:

Lab Lot# of pH paper:

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


Pace Lab #	Glass						Plastic					Vials				Jars			General			VOA Vials (>6mm) *	H ₂ SO ₄ pH ≤2	NaOH+Zn, Act. pH ≥9	NaOH, pH ≥12	HNO ₃ pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU								WPFU	SP5T	ZPLC	GN
001																																2.5 / 5 / 10
002																																2.5 / 5 / 10
003																																2.5 / 5 / 10
004																																2.5 / 5 / 10
005																																2.5 / 5 / 10
006																																2.5 / 5 / 10
007																																2.5 / 5 / 10
008																																2.5 / 5 / 10
009																																2.5 / 5 / 10
010																																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	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 H ₂ SO ₄	BP3N	250 mL plastic HNO ₃	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H ₂ SO ₄	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H ₂ SO ₄					GN	
BG3U	250 mL clear glass unpres						

Sample Condition Upon Receipt Form (SCUR)

Client Name: Ramboll
 Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Project #: **WO#: 40243051**

 40243051

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 - 105 Type of Ice: Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: 4 /Corr: 4
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no
 Person examining contents: 4/7/22 /Initials: SKW
 Labeled By Initials: SKW

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Proj #, Filter</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sample <u>Name & Signature</u> on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8. <u>See #13</u>
For Analysis: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>Listed on COC - none in shipment</u>
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

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

April 22, 2022

Scott Woods
Ramboll

RE: Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Dear Scott Woods:

Enclosed are the analytical results for sample(s) received by the laboratory on April 07, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40243071001	040522001	Water	04/05/22 12:31	04/07/22 08:20
40243071002	040522002	Water	04/05/22 13:52	04/07/22 08:20
40243071003	040522003	Water	04/05/22 14:30	04/07/22 08:20
40243071004	040522004	Water	04/05/22 15:08	04/07/22 08:20
40243071005	040522005	Water	04/05/22 16:06	04/07/22 08:20
40243071006	040522006	Water	04/05/22 16:47	04/07/22 08:20
40243071007	040522007	Water	04/05/22 17:22	04/07/22 08:20
40243071008	040522008	Water	04/05/22 17:27	04/07/22 08:20
40243071009	040522009	Water	04/05/22 17:56	04/07/22 08:20
40243071010	040522010	Water	04/05/22 18:15	04/07/22 08:20
40243071011	040522011	Water	04/05/22 18:40	04/07/22 08:20
40243071012	040522012	Water	04/05/22 19:00	04/07/22 08:20
40243071013	040622013	Water	04/06/22 07:16	04/07/22 08:20
40243071014	040622014	Water	04/06/22 08:02	04/07/22 08:20
40243071015	040622016	Water	04/06/22 08:56	04/07/22 08:20
40243071016	040622017	Water	04/06/22 09:34	04/07/22 08:20
40243071017	040622018	Water	04/06/22 10:10	04/07/22 08:20
40243071018	040622019	Water	04/06/22 10:45	04/07/22 08:20
40243071019	040622020	Water	04/06/22 11:21	04/07/22 08:20
40243071020	040622021	Water	04/06/22 12:08	04/07/22 08:20
40243071021	040622022	Water	04/06/22 12:13	04/07/22 08:20
40243071022	040622028	Water	04/06/22 15:00	04/07/22 08:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40243071001	040522001	EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40243071002	040522002	EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40243071003	040522003	EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40243071004	040522004	EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40243071005	040522005	EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40243071006	040522006	EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40243071007	040522007	EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
40243071008	040522008	EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G
40243071009	040522009	EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
40243071010	040522010	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40243071011	040522011	EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40243071012	040522012	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
40243071013	040622013	EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40243071014	040622014	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40243071015	040622016	EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G
40243071016	040622017	EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 310.2	DAW	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40243071017	040622018	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40243071018	040622019	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40243071019	040622020	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40243071020	040622021	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40243071021	040622022	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G
		EPA 6020B	KXS	9	PASI-G
		EPA 8270E by SIM	RJN	12	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40243071022	040622028	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KHB	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

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

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Method: EPA 8015B Modified

Description: Methane, Ethane, Ethene GCV

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

Date: April 22, 2022

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Method: EPA 6020B

Description: 6020B MET ICPMS, Dissolved

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

Date: April 22, 2022

General Information:

22 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.

P4: Sample field preservation does not meet EPA or method recommendations for this analysis.

- 040522010 (Lab ID: 40243071010)
- 040522011 (Lab ID: 40243071011)

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: 413475

1q: Analyte was detected in the associated filter blank at a concentration of 0.41ug/L

- 040522011 (Lab ID: 40243071011)
 - Antimony, Dissolved

2q: Analyte was detected in the associated filter blank at a concentration of 0.41ug/L.

- 040522010 (Lab ID: 40243071010)
 - Antimony, Dissolved

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PROJECT NARRATIVE

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Method: EPA 8270E by SIM

Description: 8270E MSSV PAH

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

Date: April 22, 2022

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

QC Batch: 412622

S0: Surrogate recovery outside laboratory control limits.

- 040622017 (Lab ID: 40243071016)
 - 2-Fluorobiphenyl (S)
 - Terphenyl-d14 (S)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: 412622

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.: 40243071

Method: EPA 8270E by SIM

Description: 8270E MSSV PAH

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

Date: April 22, 2022

Analyte Comments:

QC Batch: 412622

3q: There was no chance to reextract within sample hold time

- 040622017 (Lab ID: 40243071016)
 - 2-Fluorobiphenyl (S)
 - Terphenyl-d14 (S)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Method: EPA 8260

Description: 8260 MSV UST

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

Date: April 22, 2022

General Information:

22 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:

Analyte Comments:

QC Batch: 412590

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

- 040622021 (Lab ID: 40243071020)

- Toluene-d8 (S)

- 040622022 (Lab ID: 40243071021)

- Toluene-d8 (S)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Method: EPA 300.0

Description: 300.0 IC Anions

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

Date: April 22, 2022

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: 413227

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40243071004,40243071022

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

- MS (Lab ID: 2379435)
 - Sulfate
- MSD (Lab ID: 2379436)
 - Sulfate

Additional Comments:

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PROJECT NARRATIVE

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Method: EPA 310.2

Description: 310.2 Alkalinity

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

Date: April 22, 2022

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: 413177

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40243071004,40243071009

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

- MS (Lab ID: 2378906)
 - Alkalinity, Total as CaCO₃
- MS (Lab ID: 2378908)
 - Alkalinity, Total as CaCO₃
- MSD (Lab ID: 2378907)
 - Alkalinity, Total as CaCO₃
- MSD (Lab ID: 2378909)
 - Alkalinity, Total as CaCO₃

QC Batch: 413179

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40243149004,40243238004

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

- MS (Lab ID: 2378924)
 - Alkalinity, Total as CaCO₃
- MSD (Lab ID: 2378925)
 - Alkalinity, Total as CaCO₃

Additional Comments:

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PROJECT NARRATIVE

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ pres.

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

Date: April 22, 2022

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Additional Comments:

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.: 40243071

Sample: 040522001 **Lab ID: 40243071001** Collected: 04/05/22 12:31 Received: 04/07/22 08:20 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		04/12/22 09:14	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	04/11/22 07:28	04/21/22 23:24	7429-90-5	
Antimony, Dissolved	<0.15	ug/L	1.0	0.15	1	04/11/22 07:28	04/21/22 23:24	7440-36-0	
Copper, Dissolved	2.3J	ug/L	6.4	1.9	1	04/11/22 07:28	04/21/22 23:24	7440-50-8	
Iron, Dissolved	191J	ug/L	250	58.0	1	04/11/22 07:28	04/21/22 23:24	7439-89-6	
Manganese, Dissolved	<1.2	ug/L	4.0	1.2	1	04/11/22 07:28	04/21/22 23:24	7439-96-5	
Nickel, Dissolved	0.90J	ug/L	1.0	0.28	1	04/11/22 07:28	04/21/22 23:24	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/21/22 23:24	7440-22-4	
Vanadium, Dissolved	<0.32	ug/L	1.0	0.32	1	04/11/22 07:28	04/21/22 23:24	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/21/22 23:24	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.021J	ug/L	0.048	0.018	1	04/08/22 08:58	04/11/22 19:56	120-12-7	
Benzo(a)pyrene	<0.019	ug/L	0.048	0.019	1	04/08/22 08:58	04/11/22 19:56	50-32-8	
Benzo(b)fluoranthene	0.028J	ug/L	0.048	0.019	1	04/08/22 08:58	04/11/22 19:56	205-99-2	
Benzo(g,h,i)perylene	<0.022	ug/L	0.048	0.022	1	04/08/22 08:58	04/11/22 19:56	191-24-2	
Chrysene	0.039J	ug/L	0.048	0.025	1	04/08/22 08:58	04/11/22 19:56	218-01-9	
Fluoranthene	0.071	ug/L	0.048	0.025	1	04/08/22 08:58	04/11/22 19:56	206-44-0	
Fluorene	<0.022	ug/L	0.048	0.022	1	04/08/22 08:58	04/11/22 19:56	86-73-7	
Naphthalene	<0.019	ug/L	0.048	0.019	1	04/08/22 08:58	04/11/22 19:56	91-20-3	
Phenanthrene	0.049	ug/L	0.048	0.024	1	04/08/22 08:58	04/11/22 19:56	85-01-8	
Pyrene	0.063	ug/L	0.048	0.022	1	04/08/22 08:58	04/11/22 19:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	44-120		1	04/08/22 08:58	04/11/22 19:56	321-60-8	
Terphenyl-d14 (S)	77	%	49-120		1	04/08/22 08:58	04/11/22 19:56	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		04/12/22 15:10	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 15:10	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 15:10	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 15:10	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 15:10	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 15:10	95-47-6	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		04/12/22 15:10	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1		04/12/22 15:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		04/12/22 15:10	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Sample: 040522001 **Lab ID: 40243071001** Collected: 04/05/22 12:31 Received: 04/07/22 08:20 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	80.5	mg/L	10.0	2.2	5		04/18/22 14:27	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	319	mg/L	25.0	5.2	1		04/15/22 09:55		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	5.3	mg/L	0.25	0.059	1		04/14/22 11:23		

Sample: 040522002 **Lab ID: 40243071002** Collected: 04/05/22 13:52 Received: 04/07/22 08:20 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		04/12/22 09:20	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	04/11/22 07:28	04/21/22 23:39	7429-90-5	
Antimony, Dissolved	<0.15	ug/L	1.0	0.15	1	04/11/22 07:28	04/21/22 23:39	7440-36-0	
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	04/11/22 07:28	04/21/22 23:39	7440-50-8	
Iron, Dissolved	<58.0	ug/L	250	58.0	1	04/11/22 07:28	04/21/22 23:39	7439-89-6	
Manganese, Dissolved	<1.2	ug/L	4.0	1.2	1	04/11/22 07:28	04/21/22 23:39	7439-96-5	
Nickel, Dissolved	1.3	ug/L	1.0	0.28	1	04/11/22 07:28	04/21/22 23:39	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/21/22 23:39	7440-22-4	
Vanadium, Dissolved	<0.32	ug/L	1.0	0.32	1	04/11/22 07:28	04/21/22 23:39	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/21/22 23:39	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.035J	ug/L	0.051	0.019	1	04/08/22 08:58	04/11/22 20:15	120-12-7	
Benzo(a)pyrene	0.12	ug/L	0.051	0.020	1	04/08/22 08:58	04/11/22 20:15	50-32-8	
Benzo(b)fluoranthene	0.15	ug/L	0.051	0.020	1	04/08/22 08:58	04/11/22 20:15	205-99-2	
Benzo(g,h,i)perylene	0.13	ug/L	0.051	0.024	1	04/08/22 08:58	04/11/22 20:15	191-24-2	
Chrysene	0.15	ug/L	0.051	0.027	1	04/08/22 08:58	04/11/22 20:15	218-01-9	
Fluoranthene	0.15	ug/L	0.051	0.026	1	04/08/22 08:58	04/11/22 20:15	206-44-0	
Fluorene	<0.024	ug/L	0.051	0.024	1	04/08/22 08:58	04/11/22 20:15	86-73-7	
Naphthalene	0.023J	ug/L	0.051	0.020	1	04/08/22 08:58	04/11/22 20:15	91-20-3	
Phenanthrene	0.039J	ug/L	0.051	0.026	1	04/08/22 08:58	04/11/22 20:15	85-01-8	
Pyrene	0.12	ug/L	0.051	0.023	1	04/08/22 08:58	04/11/22 20:15	129-00-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040522002 **Lab ID: 40243071002** Collected: 04/05/22 13:52 Received: 04/07/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Surrogates									
2-Fluorobiphenyl (S)	67	%	44-120		1	04/08/22 08:58	04/11/22 20:15	321-60-8	
Terphenyl-d14 (S)	71	%	49-120		1	04/08/22 08:58	04/11/22 20:15	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		04/12/22 15:29	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 15:29	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 15:29	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 15:29	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 15:29	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 15:29	95-47-6	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		04/12/22 15:29	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		04/12/22 15:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		04/12/22 15:29	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	22.8	mg/L	2.0	0.44	1		04/15/22 17:51	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	149	mg/L	25.0	5.2	1		04/15/22 09:56		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.29	mg/L	0.25	0.059	1		04/14/22 11:23		

Sample: 040522003 **Lab ID: 40243071003** Collected: 04/05/22 14:30 Received: 04/07/22 08:20 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	49.2	ug/L	2.8	0.58	1		04/12/22 09:27	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	04/11/22 07:28	04/21/22 23:46	7429-90-5	
Antimony, Dissolved	<0.15	ug/L	1.0	0.15	1	04/11/22 07:28	04/21/22 23:46	7440-36-0	
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	04/11/22 07:28	04/21/22 23:46	7440-50-8	
Iron, Dissolved	403	ug/L	250	58.0	1	04/11/22 07:28	04/21/22 23:46	7439-89-6	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040522003 **Lab ID: 40243071003** Collected: 04/05/22 14:30 Received: 04/07/22 08:20 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	184	ug/L	4.0	1.2	1	04/11/22 07:28	04/21/22 23:46	7439-96-5	
Nickel, Dissolved	1.3	ug/L	1.0	0.28	1	04/11/22 07:28	04/21/22 23:46	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/21/22 23:46	7440-22-4	
Vanadium, Dissolved	0.43J	ug/L	1.0	0.32	1	04/11/22 07:28	04/21/22 23:46	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/21/22 23:46	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	<0.019	ug/L	0.050	0.019	1	04/08/22 08:58	04/11/22 20:33	120-12-7	
Benzo(a)pyrene	<0.020	ug/L	0.050	0.020	1	04/08/22 08:58	04/11/22 20:33	50-32-8	
Benzo(b)fluoranthene	<0.020	ug/L	0.050	0.020	1	04/08/22 08:58	04/11/22 20:33	205-99-2	
Benzo(g,h,i)perylene	<0.023	ug/L	0.050	0.023	1	04/08/22 08:58	04/11/22 20:33	191-24-2	
Chrysene	<0.027	ug/L	0.050	0.027	1	04/08/22 08:58	04/11/22 20:33	218-01-9	
Fluoranthene	<0.026	ug/L	0.050	0.026	1	04/08/22 08:58	04/11/22 20:33	206-44-0	
Fluorene	<0.024	ug/L	0.050	0.024	1	04/08/22 08:58	04/11/22 20:33	86-73-7	
Naphthalene	<0.020	ug/L	0.050	0.020	1	04/08/22 08:58	04/11/22 20:33	91-20-3	
Phenanthrene	<0.026	ug/L	0.050	0.026	1	04/08/22 08:58	04/11/22 20:33	85-01-8	
Pyrene	<0.023	ug/L	0.050	0.023	1	04/08/22 08:58	04/11/22 20:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%	44-120		1	04/08/22 08:58	04/11/22 20:33	321-60-8	
Terphenyl-d14 (S)	66	%	49-120		1	04/08/22 08:58	04/11/22 20:33	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		04/12/22 15:49	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 15:49	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 15:49	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 15:49	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 15:49	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 15:49	95-47-6	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		04/12/22 15:49	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1		04/12/22 15:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		04/12/22 15:49	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	57.8	mg/L	2.0	0.44	1		04/15/22 14:24	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	271	mg/L	25.0	5.2	1		04/15/22 09:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040522003 **Lab ID: 40243071003** Collected: 04/05/22 14:30 Received: 04/07/22 08:20 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	0.16J	mg/L	0.25	0.059	1		04/14/22 11:24		

Sample: 040522004 **Lab ID: 40243071004** Collected: 04/05/22 15:08 Received: 04/07/22 08:20 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	41.9	ug/L	2.8	0.58	1		04/12/22 09:34	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	04/11/22 07:28	04/21/22 22:40	7429-90-5	
Antimony, Dissolved	1.2	ug/L	1.0	0.15	1	04/11/22 07:28	04/21/22 22:40	7440-36-0	
Copper, Dissolved	3.5J	ug/L	6.4	1.9	1	04/11/22 07:28	04/21/22 22:40	7440-50-8	
Iron, Dissolved	360	ug/L	250	58.0	1	04/11/22 07:28	04/21/22 22:40	7439-89-6	
Manganese, Dissolved	577	ug/L	4.0	1.2	1	04/11/22 07:28	04/21/22 22:40	7439-96-5	
Nickel, Dissolved	2.9	ug/L	1.0	0.28	1	04/11/22 07:28	04/21/22 22:40	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/21/22 22:40	7440-22-4	
Vanadium, Dissolved	1.7	ug/L	1.0	0.32	1	04/11/22 07:28	04/21/22 22:40	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/21/22 22:40	7440-66-6	

8270E MSSV PAH Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510
Pace Analytical Services - Green Bay

Anthracene	0.051	ug/L	0.050	0.019	1	04/08/22 08:58	04/12/22 07:56	120-12-7	
Benzo(a)pyrene	<0.020	ug/L	0.050	0.020	1	04/08/22 08:58	04/12/22 07:56	50-32-8	
Benzo(b)fluoranthene	<0.020	ug/L	0.050	0.020	1	04/08/22 08:58	04/12/22 07:56	205-99-2	
Benzo(g,h,i)perylene	<0.023	ug/L	0.050	0.023	1	04/08/22 08:58	04/12/22 07:56	191-24-2	
Chrysene	<0.027	ug/L	0.050	0.027	1	04/08/22 08:58	04/12/22 07:56	218-01-9	
Fluoranthene	0.027J	ug/L	0.050	0.026	1	04/08/22 08:58	04/12/22 07:56	206-44-0	
Fluorene	0.069	ug/L	0.050	0.024	1	04/08/22 08:58	04/12/22 07:56	86-73-7	
Naphthalene	0.28	ug/L	0.050	0.020	1	04/08/22 08:58	04/12/22 07:56	91-20-3	
Phenanthrene	<0.026	ug/L	0.050	0.026	1	04/08/22 08:58	04/12/22 07:56	85-01-8	
Pyrene	<0.023	ug/L	0.050	0.023	1	04/08/22 08:58	04/12/22 07:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	44-120		1	04/08/22 08:58	04/12/22 07:56	321-60-8	
Terphenyl-d14 (S)	70	%	49-120		1	04/08/22 08:58	04/12/22 07:56	1718-51-0	

8260 MSV UST Analytical Method: EPA 8260
Pace Analytical Services - Green Bay

Benzene	3.5	ug/L	1.0	0.30	1		04/12/22 14:51	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 14:51	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 14:51	108-88-3	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Sample: **040522004** Lab ID: **40243071004** Collected: 04/05/22 15:08 Received: 04/07/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 14:51	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 14:51	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 14:51	95-47-6	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		04/12/22 14:51	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		04/12/22 14:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		04/12/22 14:51	2199-69-1	

300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	35.1	mg/L	2.0	0.44	1		04/15/22 14:39	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	344	mg/L	50.0	10.4	2		04/15/22 09:58		M0
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.25	mg/L	0.25	0.059	1		04/14/22 11:27		

Sample: **040522005** Lab ID: **40243071005** Collected: 04/05/22 16:06 Received: 04/07/22 08:20 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	736	ug/L	14.0	2.9	5		04/12/22 12:03	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	04/11/22 07:28	04/21/22 23:54	7429-90-5	
Antimony, Dissolved	0.23J	ug/L	1.0	0.15	1	04/11/22 07:28	04/21/22 23:54	7440-36-0	
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	04/11/22 07:28	04/21/22 23:54	7440-50-8	
Iron, Dissolved	6470	ug/L	250	58.0	1	04/11/22 07:28	04/21/22 23:54	7439-89-6	
Manganese, Dissolved	707	ug/L	4.0	1.2	1	04/11/22 07:28	04/21/22 23:54	7439-96-5	
Nickel, Dissolved	2.2	ug/L	1.0	0.28	1	04/11/22 07:28	04/21/22 23:54	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/21/22 23:54	7440-22-4	
Vanadium, Dissolved	1.5	ug/L	1.0	0.32	1	04/11/22 07:28	04/21/22 23:54	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/21/22 23:54	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Anthracene	0.020J	ug/L	0.049	0.018	1	04/08/22 08:58	04/11/22 20:51	120-12-7	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040522005 **Lab ID: 40243071005** Collected: 04/05/22 16:06 Received: 04/07/22 08:20 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	<0.019	ug/L	0.049	0.019	1	04/08/22 08:58	04/11/22 20:51	50-32-8	
Benzo(b)fluoranthene	<0.019	ug/L	0.049	0.019	1	04/08/22 08:58	04/11/22 20:51	205-99-2	
Benzo(g,h,i)perylene	<0.023	ug/L	0.049	0.023	1	04/08/22 08:58	04/11/22 20:51	191-24-2	
Chrysene	<0.026	ug/L	0.049	0.026	1	04/08/22 08:58	04/11/22 20:51	218-01-9	
Fluoranthene	<0.026	ug/L	0.049	0.026	1	04/08/22 08:58	04/11/22 20:51	206-44-0	
Fluorene	<0.023	ug/L	0.049	0.023	1	04/08/22 08:58	04/11/22 20:51	86-73-7	
Naphthalene	0.029J	ug/L	0.049	0.020	1	04/08/22 08:58	04/11/22 20:51	91-20-3	
Phenanthrene	<0.025	ug/L	0.049	0.025	1	04/08/22 08:58	04/11/22 20:51	85-01-8	
Pyrene	0.047J	ug/L	0.049	0.022	1	04/08/22 08:58	04/11/22 20:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%	44-120		1	04/08/22 08:58	04/11/22 20:51	321-60-8	
Terphenyl-d14 (S)	73	%	49-120		1	04/08/22 08:58	04/11/22 20:51	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		04/12/22 16:08	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 16:08	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 16:08	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 16:08	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 16:08	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 16:08	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		04/12/22 16:08	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		04/12/22 16:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/12/22 16:08	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	109	mg/L	10.0	2.2	5		04/18/22 13:04	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	439	mg/L	125	26.0	5		04/15/22 10:01		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.18J	mg/L	0.25	0.059	1		04/14/22 11:29		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040522006 **Lab ID: 40243071006** Collected: 04/05/22 16:47 Received: 04/07/22 08:20 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		04/12/22 09:48	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	04/11/22 07:28	04/22/22 00:01	7429-90-5	
Antimony, Dissolved	<0.15	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 00:01	7440-36-0	
Copper, Dissolved	2.2J	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 00:01	7440-50-8	
Iron, Dissolved	<58.0	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 00:01	7439-89-6	
Manganese, Dissolved	292	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 00:01	7439-96-5	
Nickel, Dissolved	1.7	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 00:01	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 00:01	7440-22-4	
Vanadium, Dissolved	<0.32	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 00:01	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 00:01	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	0.049	0.018	1	04/08/22 08:58	04/11/22 21:10	120-12-7	
Benzo(a)pyrene	<0.019	ug/L	0.049	0.019	1	04/08/22 08:58	04/11/22 21:10	50-32-8	
Benzo(b)fluoranthene	<0.019	ug/L	0.049	0.019	1	04/08/22 08:58	04/11/22 21:10	205-99-2	
Benzo(g,h,i)perylene	<0.023	ug/L	0.049	0.023	1	04/08/22 08:58	04/11/22 21:10	191-24-2	
Chrysene	<0.026	ug/L	0.049	0.026	1	04/08/22 08:58	04/11/22 21:10	218-01-9	
Fluoranthene	<0.026	ug/L	0.049	0.026	1	04/08/22 08:58	04/11/22 21:10	206-44-0	
Fluorene	<0.023	ug/L	0.049	0.023	1	04/08/22 08:58	04/11/22 21:10	86-73-7	
Naphthalene	0.023J	ug/L	0.049	0.019	1	04/08/22 08:58	04/11/22 21:10	91-20-3	
Phenanthrene	<0.025	ug/L	0.049	0.025	1	04/08/22 08:58	04/11/22 21:10	85-01-8	
Pyrene	<0.022	ug/L	0.049	0.022	1	04/08/22 08:58	04/11/22 21:10	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%	44-120		1	04/08/22 08:58	04/11/22 21:10	321-60-8	
Terphenyl-d14 (S)	69	%	49-120		1	04/08/22 08:58	04/11/22 21:10	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		04/12/22 16:27	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 16:27	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 16:27	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 16:27	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 16:27	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 16:27	95-47-6	
Surrogates									
Toluene-d8 (S)	104	%	70-130		1		04/12/22 16:27	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		04/12/22 16:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		04/12/22 16:27	2199-69-1	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040522006 **Lab ID: 40243071006** Collected: 04/05/22 16:47 Received: 04/07/22 08:20 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	80.3	mg/L	10.0	2.2	5		04/18/22 13:19	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	287	mg/L	25.0	5.2	1		04/15/22 10:05		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	2.6	mg/L	0.25	0.059	1		04/14/22 11:29		

Sample: 040522007 **Lab ID: 40243071007** Collected: 04/05/22 17:22 Received: 04/07/22 08:20 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	11.8	ug/L	2.8	0.58	1		04/12/22 09:55	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	04/11/22 07:28	04/22/22 00:08	7429-90-5	
Antimony, Dissolved	0.77J	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 00:08	7440-36-0	
Copper, Dissolved	10.1	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 00:08	7440-50-8	
Iron, Dissolved	<58.0	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 00:08	7439-89-6	
Manganese, Dissolved	386	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 00:08	7439-96-5	
Nickel, Dissolved	25.7	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 00:08	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 00:08	7440-22-4	
Vanadium, Dissolved	<0.32	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 00:08	7440-62-2	
Zinc, Dissolved	334	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 00:08	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	<0.019	ug/L	0.050	0.019	1	04/08/22 08:58	04/11/22 11:20	120-12-7	
Benzo(a)pyrene	<0.020	ug/L	0.050	0.020	1	04/08/22 08:58	04/11/22 11:20	50-32-8	
Benzo(b)fluoranthene	<0.020	ug/L	0.050	0.020	1	04/08/22 08:58	04/11/22 11:20	205-99-2	
Benzo(g,h,i)perylene	<0.023	ug/L	0.050	0.023	1	04/08/22 08:58	04/11/22 11:20	191-24-2	
Chrysene	<0.027	ug/L	0.050	0.027	1	04/08/22 08:58	04/11/22 11:20	218-01-9	
Fluoranthene	<0.026	ug/L	0.050	0.026	1	04/08/22 08:58	04/11/22 11:20	206-44-0	
Fluorene	<0.024	ug/L	0.050	0.024	1	04/08/22 08:58	04/11/22 11:20	86-73-7	
Naphthalene	<0.020	ug/L	0.050	0.020	1	04/08/22 08:58	04/11/22 11:20	91-20-3	
Phenanthrene	<0.026	ug/L	0.050	0.026	1	04/08/22 08:58	04/11/22 11:20	85-01-8	
Pyrene	<0.023	ug/L	0.050	0.023	1	04/08/22 08:58	04/11/22 11:20	129-00-0	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040522007 **Lab ID: 40243071007** Collected: 04/05/22 17:22 Received: 04/07/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Surrogates									
2-Fluorobiphenyl (S)	66	%	44-120		1	04/08/22 08:58	04/11/22 11:20	321-60-8	
Terphenyl-d14 (S)	67	%	49-120		1	04/08/22 08:58	04/11/22 11:20	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		04/12/22 16:47	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 16:47	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 16:47	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 16:47	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 16:47	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 16:47	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		04/12/22 16:47	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1		04/12/22 16:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		04/12/22 16:47	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	452	mg/L	100	22.2	50		04/18/22 13:34	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	666	mg/L	125	26.0	5		04/15/22 12:51		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	1.5	mg/L	0.25	0.059	1		04/14/22 11:30		

Sample: 040522008 **Lab ID: 40243071008** Collected: 04/05/22 17:27 Received: 04/07/22 08:20 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	12.5	ug/L	2.8	0.58	1		04/12/22 10:02	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	04/11/22 07:28	04/22/22 00:16	7429-90-5	
Antimony, Dissolved	0.79J	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 00:16	7440-36-0	
Copper, Dissolved	7.4	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 00:16	7440-50-8	
Iron, Dissolved	<58.0	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 00:16	7439-89-6	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040522008 **Lab ID: 40243071008** Collected: 04/05/22 17:27 Received: 04/07/22 08:20 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	423	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 00:16	7439-96-5	
Nickel, Dissolved	24.6	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 00:16	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 00:16	7440-22-4	
Vanadium, Dissolved	<0.32	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 00:16	7440-62-2	
Zinc, Dissolved	319	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 00:16	7440-66-6	
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	04/08/22 08:58	04/11/22 11:38	120-12-7	
Benzo(a)pyrene	<0.020	ug/L	0.052	0.020	1	04/08/22 08:58	04/11/22 11:38	50-32-8	
Benzo(b)fluoranthene	<0.020	ug/L	0.052	0.020	1	04/08/22 08:58	04/11/22 11:38	205-99-2	
Benzo(g,h,i)perylene	<0.024	ug/L	0.052	0.024	1	04/08/22 08:58	04/11/22 11:38	191-24-2	
Chrysene	<0.027	ug/L	0.052	0.027	1	04/08/22 08:58	04/11/22 11:38	218-01-9	
Fluoranthene	<0.027	ug/L	0.052	0.027	1	04/08/22 08:58	04/11/22 11:38	206-44-0	
Fluorene	<0.024	ug/L	0.052	0.024	1	04/08/22 08:58	04/11/22 11:38	86-73-7	
Naphthalene	0.023J	ug/L	0.052	0.021	1	04/08/22 08:58	04/11/22 11:38	91-20-3	
Phenanthrene	<0.026	ug/L	0.052	0.026	1	04/08/22 08:58	04/11/22 11:38	85-01-8	
Pyrene	<0.023	ug/L	0.052	0.023	1	04/08/22 08:58	04/11/22 11:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	44-120		1	04/08/22 08:58	04/11/22 11:38	321-60-8	
Terphenyl-d14 (S)	70	%	49-120		1	04/08/22 08:58	04/11/22 11:38	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		04/12/22 17:06	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 17:06	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 17:06	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 17:06	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 17:06	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 17:06	95-47-6	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		04/12/22 17:06	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		04/12/22 17:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/12/22 17:06	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	462	mg/L	100	22.2	50		04/18/22 13:49	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	656	mg/L	125	26.0	5		04/15/22 12:52		

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040522008 **Lab ID: 40243071008** Collected: 04/05/22 17:27 Received: 04/07/22 08:20 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	1.5	mg/L	0.25	0.059	1		04/14/22 11:31		

Sample: 040522009 **Lab ID: 40243071009** Collected: 04/05/22 17:56 Received: 04/07/22 08:20 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	47.1	ug/L	2.8	0.58	1		04/12/22 10:09	74-82-8	
6020B MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	<0.15	ug/L	250	58.7	1	04/11/22 07:28	04/22/22 00:23	7429-90-5	
Antimony, Dissolved	<0.15	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 00:23	7440-36-0	
Copper, Dissolved	3.7J	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 00:23	7440-50-8	
Iron, Dissolved	61.4J	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 00:23	7439-89-6	
Manganese, Dissolved	42.0	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 00:23	7439-96-5	
Nickel, Dissolved	4.9	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 00:23	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 00:23	7440-22-4	
Vanadium, Dissolved	0.96J	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 00:23	7440-62-2	
Zinc, Dissolved	18.3J	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 00:23	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	0.048	0.018	1	04/08/22 08:58	04/12/22 08:52	120-12-7	
Benzo(a)pyrene	<0.019	ug/L	0.048	0.019	1	04/08/22 08:58	04/12/22 08:52	50-32-8	
Benzo(b)fluoranthene	<0.019	ug/L	0.048	0.019	1	04/08/22 08:58	04/12/22 08:52	205-99-2	
Benzo(g,h,i)perylene	<0.022	ug/L	0.048	0.022	1	04/08/22 08:58	04/12/22 08:52	191-24-2	
Chrysene	<0.026	ug/L	0.048	0.026	1	04/08/22 08:58	04/12/22 08:52	218-01-9	
Fluoranthene	0.067	ug/L	0.048	0.025	1	04/08/22 08:58	04/12/22 08:52	206-44-0	
Fluorene	0.043J	ug/L	0.048	0.023	1	04/08/22 08:58	04/12/22 08:52	86-73-7	
Naphthalene	0.048	ug/L	0.048	0.019	1	04/08/22 08:58	04/12/22 08:52	91-20-3	
Phenanthrene	<0.025	ug/L	0.048	0.025	1	04/08/22 08:58	04/12/22 08:52	85-01-8	
Pyrene	0.054	ug/L	0.048	0.022	1	04/08/22 08:58	04/12/22 08:52	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%	44-120		1	04/08/22 08:58	04/12/22 08:52	321-60-8	
Terphenyl-d14 (S)	72	%	49-120		1	04/08/22 08:58	04/12/22 08:52	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		04/12/22 17:26	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 17:26	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 17:26	108-88-3	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040522009 **Lab ID: 40243071009** Collected: 04/05/22 17:56 Received: 04/07/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 17:26	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 17:26	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 17:26	95-47-6	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		04/12/22 17:26	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		04/12/22 17:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/12/22 17:26	2199-69-1	

300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	21.5	mg/L	2.0	0.44	1		04/15/22 16:26	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	401	mg/L	50.0	10.4	2		04/15/22 10:08		M0
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.086J	mg/L	0.25	0.059	1		04/14/22 11:31		

Sample: 040522010 **Lab ID: 40243071010** Collected: 04/05/22 18:15 Received: 04/07/22 08:20 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		04/12/22 10:16	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	04/19/22 05:33	04/20/22 23:42	7429-90-5	P4
Antimony, Dissolved	0.19J	ug/L	1.0	0.15	1	04/19/22 05:33	04/20/22 23:42	7440-36-0	2q
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	04/19/22 05:33	04/20/22 23:42	7440-50-8	
Iron, Dissolved	<58.0	ug/L	250	58.0	1	04/19/22 05:33	04/20/22 23:42	7439-89-6	
Manganese, Dissolved	<1.2	ug/L	4.0	1.2	1	04/19/22 05:33	04/20/22 23:42	7439-96-5	
Nickel, Dissolved	0.68J	ug/L	1.0	0.28	1	04/19/22 05:33	04/20/22 23:42	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/19/22 05:33	04/20/22 23:42	7440-22-4	
Vanadium, Dissolved	0.73J	ug/L	1.0	0.32	1	04/19/22 05:33	04/20/22 23:42	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/19/22 05:33	04/20/22 23:42	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.29	ug/L	0.056	0.021	1	04/08/22 08:58	04/12/22 09:10	120-12-7	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040522010 **Lab ID: 40243071010** Collected: 04/05/22 18:15 Received: 04/07/22 08:20 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	0.42	ug/L	0.056	0.022	1	04/08/22 08:58	04/12/22 09:10	50-32-8	
Benzo(b)fluoranthene	0.49	ug/L	0.056	0.022	1	04/08/22 08:58	04/12/22 09:10	205-99-2	
Benzo(g,h,i)perylene	0.30	ug/L	0.056	0.026	1	04/08/22 08:58	04/12/22 09:10	191-24-2	
Chrysene	0.39	ug/L	0.056	0.030	1	04/08/22 08:58	04/12/22 09:10	218-01-9	
Fluoranthene	1.1	ug/L	0.056	0.029	1	04/08/22 08:58	04/12/22 09:10	206-44-0	
Fluorene	0.34	ug/L	0.056	0.026	1	04/08/22 08:58	04/12/22 09:10	86-73-7	
Naphthalene	0.40	ug/L	0.056	0.022	1	04/08/22 08:58	04/12/22 09:10	91-20-3	
Phenanthrene	1.2	ug/L	0.056	0.029	1	04/08/22 08:58	04/12/22 09:10	85-01-8	
Pyrene	0.93	ug/L	0.056	0.025	1	04/08/22 08:58	04/12/22 09:10	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	44-120		1	04/08/22 08:58	04/12/22 09:10	321-60-8	
Terphenyl-d14 (S)	70	%	49-120		1	04/08/22 08:58	04/12/22 09:10	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		04/12/22 17:45	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 17:45	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 17:45	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 17:45	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 17:45	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 17:45	95-47-6	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		04/12/22 17:45	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1		04/12/22 17:45	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		04/12/22 17:45	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	899	mg/L	40.0	8.9	20		04/18/22 14:03	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	156	mg/L	25.0	5.2	1		04/15/22 10:13		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.31	mg/L	0.25	0.059	1		04/14/22 11:32		

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040522011 **Lab ID: 40243071011** Collected: 04/05/22 18:40 Received: 04/07/22 08:20 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		04/12/22 10:33	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	04/19/22 05:33	04/21/22 02:49	7429-90-5	P4
Antimony, Dissolved	0.38J	ug/L	1.0	0.15	1	04/19/22 05:33	04/21/22 02:49	7440-36-0	1q
Copper, Dissolved	2.4J	ug/L	6.4	1.9	1	04/19/22 05:33	04/21/22 02:49	7440-50-8	
Iron, Dissolved	<58.0	ug/L	250	58.0	1	04/19/22 05:33	04/21/22 02:49	7439-89-6	
Manganese, Dissolved	57.7	ug/L	4.0	1.2	1	04/19/22 05:33	04/21/22 02:49	7439-96-5	
Nickel, Dissolved	1.6	ug/L	1.0	0.28	1	04/19/22 05:33	04/21/22 02:49	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/19/22 05:33	04/21/22 02:49	7440-22-4	
Vanadium, Dissolved	<0.32	ug/L	1.0	0.32	1	04/19/22 05:33	04/21/22 02:49	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/19/22 05:33	04/21/22 02:49	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.052J	ug/L	0.055	0.020	1	04/08/22 08:58	04/12/22 09:28	120-12-7	
Benzo(a)pyrene	0.25	ug/L	0.055	0.022	1	04/08/22 08:58	04/12/22 09:28	50-32-8	
Benzo(b)fluoranthene	0.47	ug/L	0.055	0.021	1	04/08/22 08:58	04/12/22 09:28	205-99-2	
Benzo(g,h,i)perylene	0.30	ug/L	0.055	0.026	1	04/08/22 08:58	04/12/22 09:28	191-24-2	
Chrysene	0.41	ug/L	0.055	0.029	1	04/08/22 08:58	04/12/22 09:28	218-01-9	
Fluoranthene	0.69	ug/L	0.055	0.029	1	04/08/22 08:58	04/12/22 09:28	206-44-0	
Fluorene	<0.026	ug/L	0.055	0.026	1	04/08/22 08:58	04/12/22 09:28	86-73-7	
Naphthalene	<0.022	ug/L	0.055	0.022	1	04/08/22 08:58	04/12/22 09:28	91-20-3	
Phenanthrene	0.35	ug/L	0.055	0.028	1	04/08/22 08:58	04/12/22 09:28	85-01-8	
Pyrene	0.60	ug/L	0.055	0.025	1	04/08/22 08:58	04/12/22 09:28	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	44-120		1	04/08/22 08:58	04/12/22 09:28	321-60-8	
Terphenyl-d14 (S)	70	%	49-120		1	04/08/22 08:58	04/12/22 09:28	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		04/08/22 14:37	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/08/22 14:37	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/08/22 14:37	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/08/22 14:37	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/08/22 14:37	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/08/22 14:37	95-47-6	
Surrogates									
Toluene-d8 (S)	87	%	70-130		1		04/08/22 14:37	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		04/08/22 14:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	112	%	70-130		1		04/08/22 14:37	2199-69-1	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040522011 **Lab ID: 40243071011** Collected: 04/05/22 18:40 Received: 04/07/22 08:20 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	540	mg/L	40.0	8.9	20		04/18/22 14:18	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	206	mg/L	25.0	5.2	1		04/15/22 10:14		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	1.4	mg/L	0.25	0.059	1		04/14/22 11:33		

Sample: 040522012 **Lab ID: 40243071012** Collected: 04/05/22 19:00 Received: 04/07/22 08:20 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		04/12/22 10:40	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	04/11/22 07:28	04/22/22 00:45	7429-90-5	
Antimony, Dissolved	<0.15	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 00:45	7440-36-0	
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 00:45	7440-50-8	
Iron, Dissolved	<58.0	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 00:45	7439-89-6	
Manganese, Dissolved	<1.2	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 00:45	7439-96-5	
Nickel, Dissolved	0.52J	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 00:45	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 00:45	7440-22-4	
Vanadium, Dissolved	<0.32	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 00:45	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 00:45	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	<0.020	ug/L	0.055	0.020	1	04/08/22 08:58	04/11/22 11:57	120-12-7	
Benzo(a)pyrene	<0.022	ug/L	0.055	0.022	1	04/08/22 08:58	04/11/22 11:57	50-32-8	
Benzo(b)fluoranthene	<0.021	ug/L	0.055	0.021	1	04/08/22 08:58	04/11/22 11:57	205-99-2	
Benzo(g,h,i)perylene	<0.026	ug/L	0.055	0.026	1	04/08/22 08:58	04/11/22 11:57	191-24-2	
Chrysene	<0.029	ug/L	0.055	0.029	1	04/08/22 08:58	04/11/22 11:57	218-01-9	
Fluoranthene	<0.029	ug/L	0.055	0.029	1	04/08/22 08:58	04/11/22 11:57	206-44-0	
Fluorene	<0.026	ug/L	0.055	0.026	1	04/08/22 08:58	04/11/22 11:57	86-73-7	
Naphthalene	0.024J	ug/L	0.055	0.022	1	04/08/22 08:58	04/11/22 11:57	91-20-3	
Phenanthrene	<0.028	ug/L	0.055	0.028	1	04/08/22 08:58	04/11/22 11:57	85-01-8	
Pyrene	<0.025	ug/L	0.055	0.025	1	04/08/22 08:58	04/11/22 11:57	129-00-0	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040522012 **Lab ID: 40243071012** Collected: 04/05/22 19:00 Received: 04/07/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Surrogates									
2-Fluorobiphenyl (S)	71	%	44-120		1	04/08/22 08:58	04/11/22 11:57	321-60-8	
Terphenyl-d14 (S)	72	%	49-120		1	04/08/22 08:58	04/11/22 11:57	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		04/08/22 14:57	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/08/22 14:57	100-41-4	
Toluene	2.9	ug/L	1.0	0.29	1		04/08/22 14:57	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/08/22 14:57	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/08/22 14:57	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/08/22 14:57	95-47-6	
Surrogates									
Toluene-d8 (S)	96	%	70-130		1		04/08/22 14:57	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		04/08/22 14:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		04/08/22 14:57	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	<0.44	mg/L	2.0	0.44	1		04/15/22 17:55	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<5.2	mg/L	25.0	5.2	1		04/15/22 10:19		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		04/14/22 11:35		

Sample: 040622013 **Lab ID: 40243071013** Collected: 04/06/22 07:16 Received: 04/07/22 08:20 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		04/12/22 10:47	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	04/11/22 07:28	04/22/22 00:53	7429-90-5	
Antimony, Dissolved	0.18J	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 00:53	7440-36-0	
Copper, Dissolved	2.2J	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 00:53	7440-50-8	
Iron, Dissolved	<58.0	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 00:53	7439-89-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Sample: 040622013 **Lab ID: 40243071013** Collected: 04/06/22 07:16 Received: 04/07/22 08:20 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	1.5J	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 00:53	7439-96-5	
Nickel, Dissolved	0.86J	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 00:53	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 00:53	7440-22-4	
Vanadium, Dissolved	0.58J	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 00:53	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 00:53	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.17	ug/L	0.050	0.019	1	04/08/22 12:25	04/12/22 09:47	120-12-7	
Benzo(a)pyrene	0.77	ug/L	0.050	0.020	1	04/08/22 12:25	04/12/22 09:47	50-32-8	
Benzo(b)fluoranthene	1.2	ug/L	0.050	0.020	1	04/08/22 12:25	04/12/22 09:47	205-99-2	
Benzo(g,h,i)perylene	1.1	ug/L	0.050	0.023	1	04/08/22 12:25	04/12/22 09:47	191-24-2	
Chrysene	0.70	ug/L	0.050	0.027	1	04/08/22 12:25	04/12/22 09:47	218-01-9	
Fluoranthene	0.73	ug/L	0.050	0.026	1	04/08/22 12:25	04/12/22 09:47	206-44-0	
Fluorene	<0.024	ug/L	0.050	0.024	1	04/08/22 12:25	04/12/22 09:47	86-73-7	
Naphthalene	0.48	ug/L	0.050	0.020	1	04/08/22 12:25	04/12/22 09:47	91-20-3	
Phenanthrene	0.18	ug/L	0.050	0.026	1	04/08/22 12:25	04/12/22 09:47	85-01-8	
Pyrene	0.78	ug/L	0.050	0.023	1	04/08/22 12:25	04/12/22 09:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	44-120		1	04/08/22 12:25	04/12/22 09:47	321-60-8	
Terphenyl-d14 (S)	71	%	49-120		1	04/08/22 12:25	04/12/22 09:47	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		04/12/22 18:04	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 18:04	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 18:04	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 18:04	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 18:04	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 18:04	95-47-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		04/12/22 18:04	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		04/12/22 18:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		04/12/22 18:04	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	1.4J	mg/L	2.0	0.44	1		04/15/22 18:10	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	21.5J	mg/L	25.0	5.2	1		04/15/22 13:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040622013 **Lab ID: 40243071013** Collected: 04/06/22 07:16 Received: 04/07/22 08:20 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	0.39	mg/L	0.25	0.059	1		04/14/22 11:36		

Sample: 040622014 **Lab ID: 40243071014** Collected: 04/06/22 08:02 Received: 04/07/22 08:20 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	1930	ug/L	56.0	11.5	20		04/12/22 12:10	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	04/11/22 07:28	04/22/22 01:00	7429-90-5	
Antimony, Dissolved	1.3	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 01:00	7440-36-0	
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 01:00	7440-50-8	
Iron, Dissolved	9520	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 01:00	7439-89-6	
Manganese, Dissolved	464	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 01:00	7439-96-5	
Nickel, Dissolved	1.8	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 01:00	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 01:00	7440-22-4	
Vanadium, Dissolved	0.95J	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 01:00	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 01:00	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.040J	ug/L	0.049	0.018	1	04/08/22 12:25	04/12/22 10:05	120-12-7	
Benzo(a)pyrene	0.027J	ug/L	0.049	0.019	1	04/08/22 12:25	04/12/22 10:05	50-32-8	
Benzo(b)fluoranthene	0.048J	ug/L	0.049	0.019	1	04/08/22 12:25	04/12/22 10:05	205-99-2	
Benzo(g,h,i)perylene	0.037J	ug/L	0.049	0.023	1	04/08/22 12:25	04/12/22 10:05	191-24-2	
Chrysene	0.051	ug/L	0.049	0.026	1	04/08/22 12:25	04/12/22 10:05	218-01-9	
Fluoranthene	0.088	ug/L	0.049	0.026	1	04/08/22 12:25	04/12/22 10:05	206-44-0	
Fluorene	0.043J	ug/L	0.049	0.023	1	04/08/22 12:25	04/12/22 10:05	86-73-7	
Naphthalene	0.31	ug/L	0.049	0.020	1	04/08/22 12:25	04/12/22 10:05	91-20-3	
Phenanthrene	0.098	ug/L	0.049	0.025	1	04/08/22 12:25	04/12/22 10:05	85-01-8	
Pyrene	0.099	ug/L	0.049	0.022	1	04/08/22 12:25	04/12/22 10:05	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	44-120		1	04/08/22 12:25	04/12/22 10:05	321-60-8	
Terphenyl-d14 (S)	68	%	49-120		1	04/08/22 12:25	04/12/22 10:05	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		04/12/22 18:24	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 18:24	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 18:24	108-88-3	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040622014 **Lab ID: 40243071014** Collected: 04/06/22 08:02 Received: 04/07/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 18:24	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 18:24	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 18:24	95-47-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		04/12/22 18:24	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		04/12/22 18:24	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		04/12/22 18:24	2199-69-1	

300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	113	mg/L	10.0	2.2	5		04/18/22 14:33	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	267	mg/L	125	26.0	5		04/15/22 10:37		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.79	mg/L	0.25	0.059	1		04/14/22 11:37		

Sample: 040622016 **Lab ID: 40243071015** Collected: 04/06/22 08:56 Received: 04/07/22 08:20 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	9970	ug/L	140	28.8	50		04/12/22 12:17	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	04/11/22 07:28	04/22/22 01:07	7429-90-5	
Antimony, Dissolved	0.24J	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 01:07	7440-36-0	
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 01:07	7440-50-8	
Iron, Dissolved	49100	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 01:07	7439-89-6	
Manganese, Dissolved	1720	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 01:07	7439-96-5	
Nickel, Dissolved	0.90J	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 01:07	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 01:07	7440-22-4	
Vanadium, Dissolved	3.2	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 01:07	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 01:07	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	<0.35	ug/L	0.96	0.35	20	04/08/22 12:25	04/12/22 10:23	120-12-7	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040622016 **Lab ID: 40243071015** Collected: 04/06/22 08:56 Received: 04/07/22 08:20 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	<0.38	ug/L	0.96	0.38	20	04/08/22 12:25	04/12/22 10:23	50-32-8	
Benzo(b)fluoranthene	<0.37	ug/L	0.96	0.37	20	04/08/22 12:25	04/12/22 10:23	205-99-2	
Benzo(g,h,i)perylene	<0.45	ug/L	0.96	0.45	20	04/08/22 12:25	04/12/22 10:23	191-24-2	
Chrysene	<0.51	ug/L	0.96	0.51	20	04/08/22 12:25	04/12/22 10:23	218-01-9	
Fluoranthene	<0.50	ug/L	0.96	0.50	20	04/08/22 12:25	04/12/22 10:23	206-44-0	
Fluorene	<0.45	ug/L	0.96	0.45	20	04/08/22 12:25	04/12/22 10:23	86-73-7	
Naphthalene	116	ug/L	0.96	0.38	20	04/08/22 12:25	04/12/22 10:23	91-20-3	
Phenanthrene	<0.49	ug/L	0.96	0.49	20	04/08/22 12:25	04/12/22 10:23	85-01-8	
Pyrene	<0.43	ug/L	0.96	0.43	20	04/08/22 12:25	04/12/22 10:23	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	44-120		20	04/08/22 12:25	04/12/22 10:23	321-60-8	
Terphenyl-d14 (S)	51	%	49-120		20	04/08/22 12:25	04/12/22 10:23	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		04/12/22 18:43	71-43-2	
Ethylbenzene	5.4	ug/L	1.0	0.33	1		04/12/22 18:43	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 18:43	108-88-3	
Xylene (Total)	48.8	ug/L	3.0	1.0	1		04/12/22 18:43	1330-20-7	
m&p-Xylene	20.9	ug/L	2.0	0.70	1		04/12/22 18:43	179601-23-1	
o-Xylene	28.0	ug/L	1.0	0.35	1		04/12/22 18:43	95-47-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		04/12/22 18:43	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		04/12/22 18:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		04/12/22 18:43	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	2.4	mg/L	2.0	0.44	1		04/15/22 18:40	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	722	mg/L	250	51.9	10		04/15/22 10:38		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		04/14/22 11:37		

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040622017 **Lab ID: 40243071016** Collected: 04/06/22 09:34 Received: 04/07/22 08:20 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	13400	ug/L	280	57.6	100		04/12/22 12:24	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	04/11/22 07:28	04/22/22 01:15	7429-90-5	
Antimony, Dissolved	<0.15	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 01:15	7440-36-0	
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 01:15	7440-50-8	
Iron, Dissolved	5900	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 01:15	7439-89-6	
Manganese, Dissolved	533	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 01:15	7439-96-5	
Nickel, Dissolved	1.1	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 01:15	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 01:15	7440-22-4	
Vanadium, Dissolved	0.44J	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 01:15	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 01:15	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	<0.019	ug/L	0.051	0.019	1	04/08/22 12:25	04/12/22 10:42	120-12-7	
Benzo(a)pyrene	<0.020	ug/L	0.051	0.020	1	04/08/22 12:25	04/12/22 10:42	50-32-8	
Benzo(b)fluoranthene	<0.020	ug/L	0.051	0.020	1	04/08/22 12:25	04/12/22 10:42	205-99-2	
Benzo(g,h,i)perylene	<0.024	ug/L	0.051	0.024	1	04/08/22 12:25	04/12/22 10:42	191-24-2	
Chrysene	<0.027	ug/L	0.051	0.027	1	04/08/22 12:25	04/12/22 10:42	218-01-9	
Fluoranthene	<0.027	ug/L	0.051	0.027	1	04/08/22 12:25	04/12/22 10:42	206-44-0	
Fluorene	<0.024	ug/L	0.051	0.024	1	04/08/22 12:25	04/12/22 10:42	86-73-7	
Naphthalene	1.3	ug/L	0.051	0.020	1	04/08/22 12:25	04/12/22 10:42	91-20-3	
Phenanthrene	0.027J	ug/L	0.051	0.026	1	04/08/22 12:25	04/12/22 10:42	85-01-8	
Pyrene	<0.023	ug/L	0.051	0.023	1	04/08/22 12:25	04/12/22 10:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	41	%	44-120		1	04/08/22 12:25	04/12/22 10:42	321-60-8	3q,S0
Terphenyl-d14 (S)	44	%	49-120		1	04/08/22 12:25	04/12/22 10:42	1718-51-0	3q,S0
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		04/12/22 19:03	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 19:03	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 19:03	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 19:03	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 19:03	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 19:03	95-47-6	
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		04/12/22 19:03	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		04/12/22 19:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		04/12/22 19:03	2199-69-1	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040622017 **Lab ID: 40243071016** Collected: 04/06/22 09:34 Received: 04/07/22 08:20 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	3.8	mg/L	2.0	0.44	1		04/15/22 18:55	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	486	mg/L	250	51.9	10		04/15/22 10:39		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		04/14/22 11:38		

Sample: 040622018 **Lab ID: 40243071017** Collected: 04/06/22 10:10 Received: 04/07/22 08:20 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	13100	ug/L	560	115	200		04/12/22 12:30	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	04/11/22 07:28	04/22/22 01:22	7429-90-5	
Antimony, Dissolved	<0.15	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 01:22	7440-36-0	
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 01:22	7440-50-8	
Iron, Dissolved	17300	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 01:22	7439-89-6	
Manganese, Dissolved	824	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 01:22	7439-96-5	
Nickel, Dissolved	1.4	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 01:22	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 01:22	7440-22-4	
Vanadium, Dissolved	0.45J	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 01:22	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 01:22	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.033J	ug/L	0.050	0.018	1	04/08/22 12:25	04/12/22 11:00	120-12-7	
Benzo(a)pyrene	<0.020	ug/L	0.050	0.020	1	04/08/22 12:25	04/12/22 11:00	50-32-8	
Benzo(b)fluoranthene	<0.019	ug/L	0.050	0.019	1	04/08/22 12:25	04/12/22 11:00	205-99-2	
Benzo(g,h,i)perylene	<0.023	ug/L	0.050	0.023	1	04/08/22 12:25	04/12/22 11:00	191-24-2	
Chrysene	<0.027	ug/L	0.050	0.027	1	04/08/22 12:25	04/12/22 11:00	218-01-9	
Fluoranthene	0.057	ug/L	0.050	0.026	1	04/08/22 12:25	04/12/22 11:00	206-44-0	
Fluorene	0.12	ug/L	0.050	0.023	1	04/08/22 12:25	04/12/22 11:00	86-73-7	
Naphthalene	0.097	ug/L	0.050	0.020	1	04/08/22 12:25	04/12/22 11:00	91-20-3	
Phenanthrene	0.096	ug/L	0.050	0.026	1	04/08/22 12:25	04/12/22 11:00	85-01-8	
Pyrene	0.066	ug/L	0.050	0.023	1	04/08/22 12:25	04/12/22 11:00	129-00-0	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040622018 **Lab ID: 40243071017** Collected: 04/06/22 10:10 Received: 04/07/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Surrogates									
2-Fluorobiphenyl (S)	65	%	44-120		1	04/08/22 12:25	04/12/22 11:00	321-60-8	
Terphenyl-d14 (S)	72	%	49-120		1	04/08/22 12:25	04/12/22 11:00	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		04/12/22 19:22	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 19:22	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 19:22	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 19:22	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 19:22	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 19:22	95-47-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		04/12/22 19:22	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		1		04/12/22 19:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/12/22 19:22	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	7.4	mg/L	2.0	0.44	1		04/15/22 19:10	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	741	mg/L	125	26.0	5		04/15/22 10:40		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		04/14/22 11:42		

Sample: 040622019 **Lab ID: 40243071018** Collected: 04/06/22 10:45 Received: 04/07/22 08:20 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	46.2	ug/L	2.8	0.58	1		04/12/22 11:22	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	04/11/22 07:28	04/22/22 01:44	7429-90-5	
Antimony, Dissolved	0.59J	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 01:44	7440-36-0	
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 01:44	7440-50-8	
Iron, Dissolved	314	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 01:44	7439-89-6	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040622019 **Lab ID: 40243071018** Collected: 04/06/22 10:45 Received: 04/07/22 08:20 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	383	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 01:44	7439-96-5	
Nickel, Dissolved	2.1	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 01:44	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 01:44	7440-22-4	
Vanadium, Dissolved	<0.32	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 01:44	7440-62-2	
Zinc, Dissolved	16.6J	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 01:44	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Anthracene	0.053	ug/L	0.048	0.018	1	04/08/22 12:25	04/12/22 11:19	120-12-7	
Benzo(a)pyrene	0.050	ug/L	0.048	0.019	1	04/08/22 12:25	04/12/22 11:19	50-32-8	
Benzo(b)fluoranthene	0.12	ug/L	0.048	0.019	1	04/08/22 12:25	04/12/22 11:19	205-99-2	
Benzo(g,h,i)perylene	0.090	ug/L	0.048	0.022	1	04/08/22 12:25	04/12/22 11:19	191-24-2	
Chrysene	0.12	ug/L	0.048	0.026	1	04/08/22 12:25	04/12/22 11:19	218-01-9	
Fluoranthene	0.25	ug/L	0.048	0.025	1	04/08/22 12:25	04/12/22 11:19	206-44-0	
Fluorene	0.069	ug/L	0.048	0.023	1	04/08/22 12:25	04/12/22 11:19	86-73-7	
Naphthalene	0.48	ug/L	0.048	0.019	1	04/08/22 12:25	04/12/22 11:19	91-20-3	
Phenanthrene	0.074	ug/L	0.048	0.025	1	04/08/22 12:25	04/12/22 11:19	85-01-8	
Pyrene	0.22	ug/L	0.048	0.022	1	04/08/22 12:25	04/12/22 11:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	44-120		1	04/08/22 12:25	04/12/22 11:19	321-60-8	
Terphenyl-d14 (S)	67	%	49-120		1	04/08/22 12:25	04/12/22 11:19	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		04/12/22 19:41	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 19:41	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 19:41	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 19:41	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 19:41	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 19:41	95-47-6	
Surrogates									
Toluene-d8 (S)	104	%	70-130		1		04/12/22 19:41	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1		04/12/22 19:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		04/12/22 19:41	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	169	mg/L	20.0	4.4	10		04/18/22 14:48	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	277	mg/L	25.0	5.2	1		04/15/22 10:41		

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 040622019 Lab ID: 40243071018 Collected: 04/06/22 10:45 Received: 04/07/22 08:20 Matrix: Water									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.50	mg/L	0.25	0.059	1		04/14/22 11:44		

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 040622020 Lab ID: 40243071019 Collected: 04/06/22 11:21 Received: 04/07/22 08:20 Matrix: Water									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Methane	1.8J	ug/L	2.8	0.58	1		04/12/22 11:29	74-82-8	
Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Aluminum, Dissolved	62.6J	ug/L	250	58.7	1	04/11/22 07:28	04/22/22 01:51	7429-90-5	
Antimony, Dissolved	1.1	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 01:51	7440-36-0	
Copper, Dissolved	33.5	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 01:51	7440-50-8	
Iron, Dissolved	201J	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 01:51	7439-89-6	
Manganese, Dissolved	3.0J	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 01:51	7439-96-5	
Nickel, Dissolved	2.5	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 01:51	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 01:51	7440-22-4	
Vanadium, Dissolved	1.5	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 01:51	7440-62-2	
Zinc, Dissolved	23.6J	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 01:51	7440-66-6	
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	0.12	ug/L	0.050	0.019	1	04/08/22 12:25	04/12/22 11:37	120-12-7	
Benzo(a)pyrene	0.64	ug/L	0.050	0.020	1	04/08/22 12:25	04/12/22 11:37	50-32-8	
Benzo(b)fluoranthene	1.2	ug/L	0.050	0.020	1	04/08/22 12:25	04/12/22 11:37	205-99-2	
Benzo(g,h,i)perylene	0.80	ug/L	0.050	0.024	1	04/08/22 12:25	04/12/22 11:37	191-24-2	
Chrysene	1.0	ug/L	0.050	0.027	1	04/08/22 12:25	04/12/22 11:37	218-01-9	
Fluoranthene	2.1	ug/L	0.050	0.026	1	04/08/22 12:25	04/12/22 11:37	206-44-0	
Fluorene	0.043J	ug/L	0.050	0.024	1	04/08/22 12:25	04/12/22 11:37	86-73-7	
Naphthalene	0.40	ug/L	0.050	0.020	1	04/08/22 12:25	04/12/22 11:37	91-20-3	
Phenanthrene	1.0	ug/L	0.050	0.026	1	04/08/22 12:25	04/12/22 11:37	85-01-8	
Pyrene	1.7	ug/L	0.050	0.023	1	04/08/22 12:25	04/12/22 11:37	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	44-120		1	04/08/22 12:25	04/12/22 11:37	321-60-8	
Terphenyl-d14 (S)	69	%	49-120		1	04/08/22 12:25	04/12/22 11:37	1718-51-0	
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		04/12/22 20:01	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 20:01	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/12/22 20:01	108-88-3	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040622020 **Lab ID: 40243071019** Collected: 04/06/22 11:21 Received: 04/07/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 20:01	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 20:01	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 20:01	95-47-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		04/12/22 20:01	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		04/12/22 20:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		04/12/22 20:01	2199-69-1	

300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	27.4	mg/L	2.0	0.44	1		04/15/22 19:39	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	213	mg/L	50.0	10.4	2		04/15/22 10:49		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	3.5	mg/L	0.25	0.059	1		04/14/22 11:45		

Sample: 040622021 **Lab ID: 40243071020** Collected: 04/06/22 12:08 Received: 04/07/22 08:20 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	26600	ug/L	560	115	200		04/12/22 12:37	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	04/11/22 07:28	04/22/22 01:59	7429-90-5	
Antimony, Dissolved	<0.15	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 01:59	7440-36-0	
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 01:59	7440-50-8	
Iron, Dissolved	37700	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 01:59	7439-89-6	
Manganese, Dissolved	512	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 01:59	7439-96-5	
Nickel, Dissolved	0.87J	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 01:59	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 01:59	7440-22-4	
Vanadium, Dissolved	0.82J	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 01:59	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 01:59	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	4.2	ug/L	3.8	1.4	80	04/08/22 12:25	04/12/22 11:56	120-12-7	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Sample: 040622021 **Lab ID: 40243071020** Collected: 04/06/22 12:08 Received: 04/07/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Benzo(a)pyrene	<1.5	ug/L	3.8	1.5	80	04/08/22 12:25	04/12/22 11:56	50-32-8	
Benzo(b)fluoranthene	<1.5	ug/L	3.8	1.5	80	04/08/22 12:25	04/12/22 11:56	205-99-2	
Benzo(g,h,i)perylene	<1.8	ug/L	3.8	1.8	80	04/08/22 12:25	04/12/22 11:56	191-24-2	
Chrysene	<2.0	ug/L	3.8	2.0	80	04/08/22 12:25	04/12/22 11:56	218-01-9	
Fluoranthene	<2.0	ug/L	3.8	2.0	80	04/08/22 12:25	04/12/22 11:56	206-44-0	
Fluorene	17.2	ug/L	3.8	1.8	80	04/08/22 12:25	04/12/22 11:56	86-73-7	
Naphthalene	339	ug/L	3.8	1.5	80	04/08/22 12:25	04/12/22 11:56	91-20-3	
Phenanthrene	21.1	ug/L	3.8	2.0	80	04/08/22 12:25	04/12/22 11:56	85-01-8	
Pyrene	1.8J	ug/L	3.8	1.7	80	04/08/22 12:25	04/12/22 11:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	44-120		80	04/08/22 12:25	04/12/22 11:56	321-60-8	
Terphenyl-d14 (S)	54	%	49-120		80	04/08/22 12:25	04/12/22 11:56	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	59.1	ug/L	2.5	0.74	2.5		04/12/22 20:40	71-43-2	
Ethylbenzene	30.2	ug/L	2.5	0.81	2.5		04/12/22 20:40	100-41-4	
Toluene	3.9	ug/L	2.5	0.72	2.5		04/12/22 20:40	108-88-3	
Xylene (Total)	36.7	ug/L	7.5	2.6	2.5		04/12/22 20:40	1330-20-7	
m&p-Xylene	10.4	ug/L	5.0	1.8	2.5		04/12/22 20:40	179601-23-1	
o-Xylene	26.4	ug/L	2.5	0.87	2.5		04/12/22 20:40	95-47-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		2.5		04/12/22 20:40	2037-26-5	D3
4-Bromofluorobenzene (S)	102	%	70-130		2.5		04/12/22 20:40	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		2.5		04/12/22 20:40	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	0.78J	mg/L	2.0	0.44	1		04/15/22 20:39	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	632	mg/L	250	51.9	10		04/15/22 10:50		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		04/14/22 11:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040622022 **Lab ID: 40243071021** Collected: 04/06/22 12:13 Received: 04/07/22 08:20 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	7330	ug/L	140	28.8	50		04/15/22 12:23	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	04/11/22 07:28	04/22/22 02:06	7429-90-5	
Antimony, Dissolved	<0.15	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 02:06	7440-36-0	
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 02:06	7440-50-8	
Iron, Dissolved	39100	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 02:06	7439-89-6	
Manganese, Dissolved	538	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 02:06	7439-96-5	
Nickel, Dissolved	1.2	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 02:06	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 02:06	7440-22-4	
Vanadium, Dissolved	0.87J	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 02:06	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 02:06	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	5.6	ug/L	2.5	0.92	50	04/11/22 09:01	04/12/22 12:14	120-12-7	
Benzo(a)pyrene	<0.98	ug/L	2.5	0.98	50	04/11/22 09:01	04/12/22 12:14	50-32-8	
Benzo(b)fluoranthene	<0.97	ug/L	2.5	0.97	50	04/11/22 09:01	04/12/22 12:14	205-99-2	
Benzo(g,h,i)perylene	<1.2	ug/L	2.5	1.2	50	04/11/22 09:01	04/12/22 12:14	191-24-2	
Chrysene	<1.3	ug/L	2.5	1.3	50	04/11/22 09:01	04/12/22 12:14	218-01-9	
Fluoranthene	2.3J	ug/L	2.5	1.3	50	04/11/22 09:01	04/12/22 12:14	206-44-0	
Fluorene	19.4	ug/L	2.5	1.2	50	04/11/22 09:01	04/12/22 12:14	86-73-7	
Naphthalene	369	ug/L	2.5	0.99	50	04/11/22 09:01	04/12/22 12:14	91-20-3	
Phenanthrene	23.3	ug/L	2.5	1.3	50	04/11/22 09:01	04/12/22 12:14	85-01-8	
Pyrene	2.1J	ug/L	2.5	1.1	50	04/11/22 09:01	04/12/22 12:14	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	44-120		50	04/11/22 09:01	04/12/22 12:14	321-60-8	
Terphenyl-d14 (S)	66	%	49-120		50	04/11/22 09:01	04/12/22 12:14	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	59.9	ug/L	2.0	0.59	2		04/12/22 20:59	71-43-2	
Ethylbenzene	30.2	ug/L	2.0	0.65	2		04/12/22 20:59	100-41-4	
Toluene	3.7	ug/L	2.0	0.58	2		04/12/22 20:59	108-88-3	
Xylene (Total)	35.5	ug/L	6.0	2.1	2		04/12/22 20:59	1330-20-7	
m&p-Xylene	10.3	ug/L	4.0	1.4	2		04/12/22 20:59	179601-23-1	
o-Xylene	25.3	ug/L	2.0	0.70	2		04/12/22 20:59	95-47-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		2		04/12/22 20:59	2037-26-5	D3
4-Bromofluorobenzene (S)	104	%	70-130		2		04/12/22 20:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		2		04/12/22 20:59	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040622022 **Lab ID: 40243071021** Collected: 04/06/22 12:13 Received: 04/07/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	0.75J	mg/L	2.0	0.44	1		04/15/22 20:54	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	646	mg/L	125	26.0	5		04/15/22 10:51		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		04/14/22 11:46		

Sample: 040622028 **Lab ID: 40243071022** Collected: 04/06/22 15:00 Received: 04/07/22 08:20 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		04/15/22 09:35	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	04/11/22 07:28	04/22/22 02:14	7429-90-5	
Antimony, Dissolved	<0.15	ug/L	1.0	0.15	1	04/11/22 07:28	04/22/22 02:14	7440-36-0	
Copper, Dissolved	<1.9	ug/L	6.4	1.9	1	04/11/22 07:28	04/22/22 02:14	7440-50-8	
Iron, Dissolved	<58.0	ug/L	250	58.0	1	04/11/22 07:28	04/22/22 02:14	7439-89-6	
Manganese, Dissolved	<1.2	ug/L	4.0	1.2	1	04/11/22 07:28	04/22/22 02:14	7439-96-5	
Nickel, Dissolved	0.58J	ug/L	1.0	0.28	1	04/11/22 07:28	04/22/22 02:14	7440-02-0	
Silver, Dissolved	<0.13	ug/L	0.50	0.13	1	04/11/22 07:28	04/22/22 02:14	7440-22-4	
Vanadium, Dissolved	<0.32	ug/L	1.0	0.32	1	04/11/22 07:28	04/22/22 02:14	7440-62-2	
Zinc, Dissolved	<10.3	ug/L	34.4	10.3	1	04/11/22 07:28	04/22/22 02:14	7440-66-6	
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Anthracene	<0.017	ug/L	0.046	0.017	1	04/11/22 09:01	04/12/22 12:32	120-12-7	
Benzo(a)pyrene	<0.018	ug/L	0.046	0.018	1	04/11/22 09:01	04/12/22 12:32	50-32-8	
Benzo(b)fluoranthene	0.027J	ug/L	0.046	0.018	1	04/11/22 09:01	04/12/22 12:32	205-99-2	
Benzo(g,h,i)perylene	<0.021	ug/L	0.046	0.021	1	04/11/22 09:01	04/12/22 12:32	191-24-2	
Chrysene	0.037J	ug/L	0.046	0.024	1	04/11/22 09:01	04/12/22 12:32	218-01-9	
Fluoranthene	0.051	ug/L	0.046	0.024	1	04/11/22 09:01	04/12/22 12:32	206-44-0	
Fluorene	<0.022	ug/L	0.046	0.022	1	04/11/22 09:01	04/12/22 12:32	86-73-7	
Naphthalene	<0.018	ug/L	0.046	0.018	1	04/11/22 09:01	04/12/22 12:32	91-20-3	
Phenanthrene	0.024J	ug/L	0.046	0.023	1	04/11/22 09:01	04/12/22 12:32	85-01-8	
Pyrene	0.044J	ug/L	0.046	0.021	1	04/11/22 09:01	04/12/22 12:32	129-00-0	

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ANALYTICAL RESULTS

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Sample: 040622028 **Lab ID: 40243071022** Collected: 04/06/22 15:00 Received: 04/07/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Surrogates									
2-Fluorobiphenyl (S)	68	%	44-120		1	04/11/22 09:01	04/12/22 12:32	321-60-8	
Terphenyl-d14 (S)	67	%	49-120		1	04/11/22 09:01	04/12/22 12:32	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		04/12/22 20:20	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/12/22 20:20	100-41-4	
Toluene	2.0	ug/L	1.0	0.29	1		04/12/22 20:20	108-88-3	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/12/22 20:20	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/12/22 20:20	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/12/22 20:20	95-47-6	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		04/12/22 20:20	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		04/12/22 20:20	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/12/22 20:20	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	<0.44	mg/L	2.0	0.44	1		04/15/22 21:09	14808-79-8	M0
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<5.2	mg/L	25.0	5.2	1		04/15/22 10:52		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		04/14/22 11:47		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

QC Batch:	412850	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: 40243071001, 40243071002, 40243071003, 40243071004, 40243071005, 40243071006, 40243071007, 40243071008, 40243071009, 40243071010, 40243071011, 40243071012, 40243071013, 40243071014, 40243071015, 40243071016, 40243071017, 40243071018, 40243071019, 40243071020

METHOD BLANK: 2377348 Matrix: Water
Associated Lab Samples: 40243071001, 40243071002, 40243071003, 40243071004, 40243071005, 40243071006, 40243071007, 40243071008, 40243071009, 40243071010, 40243071011, 40243071012, 40243071013, 40243071014, 40243071015, 40243071016, 40243071017, 40243071018, 40243071019, 40243071020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.58	2.8	04/12/22 08:43	

LABORATORY CONTROL SAMPLE & LCSD: 2377349 2377350

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	30.4	32.6	106	114	73-120	7	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2377351 2377352

Parameter	Units	40243071004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	41.9	28.6	28.6	81.9	95.8	140	189	10-200	16	20	

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

QC Batch: 413267 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: 40243071021, 40243071022

METHOD BLANK: 2379664 Matrix: Water

Associated Lab Samples: 40243071021, 40243071022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.58	2.8	04/15/22 09:02	

LABORATORY CONTROL SAMPLE & LCSD: 2379665 2379666

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	26.9	26.6	94	93	73-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2379764 2379765

Parameter	Units	40243071022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	<0.58	28.6	28.6	25.7	26.2	90	92	10-200	2	20	

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

QC Batch: 412691 Analysis Method: EPA 6020B
QC Batch Method: EPA 3010A Analysis Description: 6020B MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243071001, 40243071002, 40243071003, 40243071004, 40243071005, 40243071006, 40243071007, 40243071008, 40243071009, 40243071012, 40243071013, 40243071014, 40243071015, 40243071016, 40243071017, 40243071018, 40243071019, 40243071020, 40243071021, 40243071022

METHOD BLANK: 2376930 Matrix: Water
Associated Lab Samples: 40243071001, 40243071002, 40243071003, 40243071004, 40243071005, 40243071006, 40243071007, 40243071008, 40243071009, 40243071012, 40243071013, 40243071014, 40243071015, 40243071016, 40243071017, 40243071018, 40243071019, 40243071020, 40243071021, 40243071022

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

LABORATORY CONTROL SAMPLE: 2376931

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	254	101	80-120	
Copper, Dissolved	ug/L	250	243	97	80-120	
Iron, Dissolved	ug/L	10000	10100	101	80-120	
Manganese, Dissolved	ug/L	250	242	97	80-120	
Nickel, Dissolved	ug/L	250	243	97	80-120	
Silver, Dissolved	ug/L	125	124	100	80-120	
Vanadium, Dissolved	ug/L	250	239	95	80-120	
Zinc, Dissolved	ug/L	250	252	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376932 2376933

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40243071004 Result	Spike Conc.	Spike Conc.	Conc.								
Aluminum, Dissolved	ug/L	<58.7	10000	10000	9840	9840	98	98	75-125	0	20		
Antimony, Dissolved	ug/L	1.2	250	250	257	255	102	102	75-125	1	20		
Copper, Dissolved	ug/L	3.5J	250	250	244	245	96	97	75-125	0	20		
Iron, Dissolved	ug/L	360	10000	10000	10600	10600	102	102	75-125	0	20		
Manganese, Dissolved	ug/L	577	250	250	853	852	110	110	75-125	0	20		
Nickel, Dissolved	ug/L	2.9	250	250	245	247	97	98	75-125	1	20		
Silver, Dissolved	ug/L	<0.13	125	125	121	121	97	97	75-125	0	20		

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376932		2376933		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40243071004 Result	MS Spike Conc.	MSD Spike Conc.									
Vanadium, Dissolved	ug/L	1.7	250	250	249	249	99	99	75-125	0	20		
Zinc, Dissolved	ug/L	<10.3	250	250	254	256	101	102	75-125	1	20		

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

QC Batch: 413475 Analysis Method: EPA 6020B
QC Batch Method: EPA 3010A Analysis Description: 6020B MET Dissolved
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40243071010, 40243071011

METHOD BLANK: 2380825 Matrix: Water
Associated Lab Samples: 40243071010, 40243071011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<58.7	250	04/20/22 22:43	
Antimony, Dissolved	ug/L	<0.15	1.0	04/20/22 22:43	
Copper, Dissolved	ug/L	<1.9	6.4	04/20/22 22:43	
Iron, Dissolved	ug/L	<58.0	250	04/20/22 22:43	
Manganese, Dissolved	ug/L	<1.2	4.0	04/20/22 22:43	
Nickel, Dissolved	ug/L	<0.28	1.0	04/20/22 22:43	
Silver, Dissolved	ug/L	<0.13	0.50	04/20/22 22:43	
Vanadium, Dissolved	ug/L	<0.32	1.0	04/20/22 22:43	
Zinc, Dissolved	ug/L	<10.3	34.4	04/20/22 22:43	

LABORATORY CONTROL SAMPLE: 2380826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9910	99	80-120	
Antimony, Dissolved	ug/L	250	251	100	80-120	
Copper, Dissolved	ug/L	250	256	102	80-120	
Iron, Dissolved	ug/L	10000	9820	98	80-120	
Manganese, Dissolved	ug/L	250	249	100	80-120	
Nickel, Dissolved	ug/L	250	250	100	80-120	
Silver, Dissolved	ug/L	125	134	107	80-120	
Vanadium, Dissolved	ug/L	250	246	98	80-120	
Zinc, Dissolved	ug/L	250	258	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2380827 2380828

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40243071010 Result	Spike Conc.	Spike Conc.	MS Result						
Aluminum, Dissolved	ug/L	<58.7	10000	10000	9500	9520	95	95	75-125	0	20
Antimony, Dissolved	ug/L	0.19J	250	250	245	248	98	99	75-125	1	20
Copper, Dissolved	ug/L	<1.9	250	250	242	244	96	97	75-125	1	20
Iron, Dissolved	ug/L	<58.0	10000	10000	9740	9790	97	98	75-125	1	20
Manganese, Dissolved	ug/L	<1.2	250	250	247	248	98	99	75-125	1	20
Nickel, Dissolved	ug/L	0.68J	250	250	238	239	95	95	75-125	1	20
Silver, Dissolved	ug/L	<0.13	125	125	124	125	99	100	75-125	1	20
Vanadium, Dissolved	ug/L	0.73J	250	250	246	248	98	99	75-125	1	20
Zinc, Dissolved	ug/L	<10.3	250	250	250	254	99	100	75-125	2	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

QC Batch: 412495 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40243071011, 40243071012

METHOD BLANK: 2375354 Matrix: Water
Associated Lab Samples: 40243071011, 40243071012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.30	1.0	04/08/22 08:01	
Ethylbenzene	ug/L	<0.33	1.0	04/08/22 08:01	
m&p-Xylene	ug/L	<0.70	2.0	04/08/22 08:01	
o-Xylene	ug/L	<0.35	1.0	04/08/22 08:01	
Toluene	ug/L	<0.29	1.0	04/08/22 08:01	
Xylene (Total)	ug/L	<1.0	3.0	04/08/22 08:01	
1,2-Dichlorobenzene-d4 (S)	%	113	70-130	04/08/22 08:01	
4-Bromofluorobenzene (S)	%	97	70-130	04/08/22 08:01	
Toluene-d8 (S)	%	96	70-130	04/08/22 08:01	

LABORATORY CONTROL SAMPLE: 2375355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	58.0	116	70-132	
Ethylbenzene	ug/L	50	59.0	118	80-123	
m&p-Xylene	ug/L	100	121	121	70-130	
o-Xylene	ug/L	50	55.2	110	70-130	
Toluene	ug/L	50	55.4	111	80-121	
Xylene (Total)	ug/L	150	176	117	70-130	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376464 2376465

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40242895006 Result	Spike Conc.	Spike Conc.	Result						
Benzene	ug/L	<0.30	50	50	54.4	55.9	109	112	70-132	3	20
Ethylbenzene	ug/L	<0.33	50	50	56.3	57.6	113	115	80-123	2	20
m&p-Xylene	ug/L	<0.70	100	100	115	118	115	118	70-130	3	20
o-Xylene	ug/L	<0.35	50	50	53.7	55.4	107	111	70-130	3	20
Toluene	ug/L	<0.29	50	50	51.0	53.3	102	107	80-121	4	20
Xylene (Total)	ug/L	<1.0	150	150	169	173	113	116	70-130	3	20
1,2-Dichlorobenzene-d4 (S)	%						99	98	70-130		
4-Bromofluorobenzene (S)	%						102	101	70-130		
Toluene-d8 (S)	%						92	97	70-130		

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

QC Batch: 412590 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243071001, 40243071002, 40243071003, 40243071004, 40243071005, 40243071006, 40243071007, 40243071008, 40243071009, 40243071010, 40243071013, 40243071014, 40243071015, 40243071016, 40243071017, 40243071018, 40243071019, 40243071020, 40243071021, 40243071022

METHOD BLANK: 2376082 Matrix: Water
Associated Lab Samples: 40243071001, 40243071002, 40243071003, 40243071004, 40243071005, 40243071006, 40243071007, 40243071008, 40243071009, 40243071010, 40243071013, 40243071014, 40243071015, 40243071016, 40243071017, 40243071018, 40243071019, 40243071020, 40243071021, 40243071022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.30	1.0	04/12/22 13:14	
Ethylbenzene	ug/L	<0.33	1.0	04/12/22 13:14	
m&p-Xylene	ug/L	<0.70	2.0	04/12/22 13:14	
o-Xylene	ug/L	<0.35	1.0	04/12/22 13:14	
Toluene	ug/L	<0.29	1.0	04/12/22 13:14	
Xylene (Total)	ug/L	<1.0	3.0	04/12/22 13:14	
1,2-Dichlorobenzene-d4 (S)	%	99	70-130	04/12/22 13:14	
4-Bromofluorobenzene (S)	%	102	70-130	04/12/22 13:14	
Toluene-d8 (S)	%	102	70-130	04/12/22 13:14	

LABORATORY CONTROL SAMPLE: 2376083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	46.5	93	70-132	
Ethylbenzene	ug/L	50	45.6	91	80-123	
m&p-Xylene	ug/L	100	89.6	90	70-130	
o-Xylene	ug/L	50	43.9	88	70-130	
Toluene	ug/L	50	44.7	89	80-121	
Xylene (Total)	ug/L	150	133	89	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376084 2376085

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40243071004 Result	Spike Conc.	Spike Conc.	Conc.								
Benzene	ug/L	3.5	50	50	52.7	54.4	98	102	70-132	3	20		
Ethylbenzene	ug/L	<0.33	50	50	41.6	44.3	83	89	80-123	6	20		
m&p-Xylene	ug/L	<0.70	100	100	81.2	87.0	81	87	70-130	7	20		
o-Xylene	ug/L	<0.35	50	50	40.9	44.0	81	88	70-130	7	20		
Toluene	ug/L	<0.29	50	50	40.6	43.4	81	87	80-121	7	20		
Xylene (Total)	ug/L	<1.0	150	150	122	131	81	87	70-130	7	20		
1,2-Dichlorobenzene-d4 (S)	%						101	101	70-130				

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376084												2376085	
Parameter	Units	40243071004 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
4-Bromofluorobenzene (S)	%							105	103	70-130			
Toluene-d8 (S)	%							100	102	70-130			

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

QC Batch: 412580 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: 40243071001, 40243071002, 40243071003, 40243071004, 40243071005, 40243071006, 40243071007, 40243071008, 40243071009, 40243071010, 40243071011, 40243071012

METHOD BLANK: 2376050 Matrix: Water
Associated Lab Samples: 40243071001, 40243071002, 40243071003, 40243071004, 40243071005, 40243071006, 40243071007, 40243071008, 40243071009, 40243071010, 40243071011, 40243071012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Anthracene	ug/L	<0.018	0.050	04/11/22 09:47	
Benzo(a)pyrene	ug/L	<0.020	0.050	04/11/22 09:47	
Benzo(b)fluoranthene	ug/L	<0.020	0.050	04/11/22 09:47	
Benzo(g,h,i)perylene	ug/L	<0.023	0.050	04/11/22 09:47	
Chrysene	ug/L	<0.027	0.050	04/11/22 09:47	
Fluoranthene	ug/L	<0.026	0.050	04/11/22 09:47	
Fluorene	ug/L	<0.024	0.050	04/11/22 09:47	
Naphthalene	ug/L	<0.020	0.050	04/11/22 09:47	
Phenanthrene	ug/L	<0.026	0.050	04/11/22 09:47	
Pyrene	ug/L	<0.023	0.050	04/11/22 09:47	
2-Fluorobiphenyl (S)	%	70	44-120	04/11/22 09:47	
Terphenyl-d14 (S)	%	70	49-120	04/11/22 09:47	

LABORATORY CONTROL SAMPLE: 2376051

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Anthracene	ug/L	2	1.8	88	71-120	
Benzo(a)pyrene	ug/L	2	1.8	89	71-120	
Benzo(b)fluoranthene	ug/L	2	1.7	85	62-118	
Benzo(g,h,i)perylene	ug/L	2	2.0	98	72-120	
Chrysene	ug/L	2	2.1	107	80-120	
Fluoranthene	ug/L	2	1.7	87	72-120	
Fluorene	ug/L	2	1.6	81	67-120	
Naphthalene	ug/L	2	1.5	74	60-120	
Phenanthrene	ug/L	2	1.6	79	62-120	
Pyrene	ug/L	2	1.6	82	64-120	
2-Fluorobiphenyl (S)	%			71	44-120	
Terphenyl-d14 (S)	%			73	49-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376052 2376053

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Spike Conc.	Result	Result								
Anthracene	ug/L	0.051	1.9	1.9	1.8	1.9	91	96	19-124	5	20		
Benzo(a)pyrene	ug/L	<0.020	1.9	1.9	1.8	1.9	92	97	11-134	6	20		
Benzo(b)fluoranthene	ug/L	<0.020	1.9	1.9	1.7	1.8	87	92	10-118	6	20		

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Parameter	Units	2376052		2376053		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40243071004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Benzo(g,h,i)perylene	ug/L	<0.023	1.9	1.9	2.0	2.1	100	105	10-135	5	20		
Chrysene	ug/L	<0.027	1.9	1.9	1.9	2.1	98	109	27-144	11	20		
Fluoranthene	ug/L	0.027J	1.9	1.9	1.7	1.8	86	90	26-129	4	20		
Fluorene	ug/L	0.069	1.9	1.9	1.7	1.9	84	92	27-120	9	20		
Naphthalene	ug/L	0.28	1.9	1.9	1.7	1.9	72	81	11-120	11	20		
Phenanthrene	ug/L	<0.026	1.9	1.9	1.7	1.7	85	88	23-120	4	20		
Pyrene	ug/L	<0.023	1.9	1.9	1.8	1.9	91	97	24-120	7	20		
2-Fluorobiphenyl (S)	%						75	80	44-120				
Terphenyl-d14 (S)	%						78	81	49-120				

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

QC Batch:	412622	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: 40243071013, 40243071014, 40243071015, 40243071016, 40243071017, 40243071018, 40243071019, 40243071020

METHOD BLANK: 2376292 Matrix: Water

Associated Lab Samples: 40243071013, 40243071014, 40243071015, 40243071016, 40243071017, 40243071018, 40243071019, 40243071020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Anthracene	ug/L	<0.018	0.050	04/11/22 10:24	
Benzo(a)pyrene	ug/L	<0.020	0.050	04/11/22 10:24	
Benzo(b)fluoranthene	ug/L	<0.020	0.050	04/11/22 10:24	
Benzo(g,h,i)perylene	ug/L	<0.023	0.050	04/11/22 10:24	
Chrysene	ug/L	<0.027	0.050	04/11/22 10:24	
Fluoranthene	ug/L	<0.026	0.050	04/11/22 10:24	
Fluorene	ug/L	<0.024	0.050	04/11/22 10:24	
Naphthalene	ug/L	<0.020	0.050	04/11/22 10:24	
Phenanthrene	ug/L	<0.026	0.050	04/11/22 10:24	
Pyrene	ug/L	<0.023	0.050	04/11/22 10:24	
2-Fluorobiphenyl (S)	%	65	44-120	04/11/22 10:24	
Terphenyl-d14 (S)	%	66	49-120	04/11/22 10:24	

LABORATORY CONTROL SAMPLE & LCSD: 2376293 2376294

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Anthracene	ug/L	2	1.6	1.8	80	88	71-120	9	20	
Benzo(a)pyrene	ug/L	2	1.6	1.6	79	81	71-120	2	20	
Benzo(b)fluoranthene	ug/L	2	1.4	1.6	72	79	62-118	10	20	
Benzo(g,h,i)perylene	ug/L	2	1.7	1.9	84	94	72-120	11	20	
Chrysene	ug/L	2	1.9	2.1	95	107	80-120	12	20	
Fluoranthene	ug/L	2	1.5	1.7	77	85	72-120	10	20	
Fluorene	ug/L	2	1.4	1.6	71	81	67-120	14	20	
Naphthalene	ug/L	2	1.5	1.8	75	92	60-120	20	20	
Phenanthrene	ug/L	2	1.4	1.6	68	78	62-120	14	20	
Pyrene	ug/L	2	1.4	1.7	71	83	64-120	16	20	
2-Fluorobiphenyl (S)	%				67	72	44-120			
Terphenyl-d14 (S)	%				65	70	49-120			

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

QC Batch: 412715 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: 40243071021, 40243071022

METHOD BLANK: 2377003 Matrix: Water
Associated Lab Samples: 40243071021, 40243071022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Anthracene	ug/L	<0.018	0.050	04/11/22 12:34	
Benzo(a)pyrene	ug/L	<0.020	0.050	04/11/22 12:34	
Benzo(b)fluoranthene	ug/L	<0.020	0.050	04/11/22 12:34	
Benzo(g,h,i)perylene	ug/L	<0.023	0.050	04/11/22 12:34	
Chrysene	ug/L	<0.027	0.050	04/11/22 12:34	
Fluoranthene	ug/L	<0.026	0.050	04/11/22 12:34	
Fluorene	ug/L	<0.024	0.050	04/11/22 12:34	
Naphthalene	ug/L	<0.020	0.050	04/11/22 12:34	
Phenanthrene	ug/L	<0.026	0.050	04/11/22 12:34	
Pyrene	ug/L	<0.023	0.050	04/11/22 12:34	
2-Fluorobiphenyl (S)	%	71	44-120	04/11/22 12:34	
Terphenyl-d14 (S)	%	70	49-120	04/11/22 12:34	

LABORATORY CONTROL SAMPLE: 2377004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Anthracene	ug/L	2	1.6	80	71-120	
Benzo(a)pyrene	ug/L	2	1.7	83	71-120	
Benzo(b)fluoranthene	ug/L	2	1.5	77	62-118	
Benzo(g,h,i)perylene	ug/L	2	1.6	81	72-120	
Chrysene	ug/L	2	2.2	111	80-120	
Fluoranthene	ug/L	2	1.6	81	72-120	
Fluorene	ug/L	2	1.5	73	67-120	
Naphthalene	ug/L	2	1.4	71	60-120	
Phenanthrene	ug/L	2	1.4	71	62-120	
Pyrene	ug/L	2	1.6	79	64-120	
2-Fluorobiphenyl (S)	%			67	44-120	
Terphenyl-d14 (S)	%			68	49-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2377014 2377015

Parameter	Units	40243053014 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Anthracene	ug/L	<0.000018 mg/L	2	2	1.6	1.8	80	91	19-124	12	20	
Benzo(a)pyrene	ug/L	<0.000020 mg/L	2	2	1.6	1.6	78	81	11-134	4	20	

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Parameter	Units	40243053014		2377014		2377015		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Benzo(b)fluoranthene	ug/L	<0.000020 mg/L	2	2	1.4	1.5	69	74	10-118	7	20			
Benzo(g,h,i)perylene	ug/L	<0.000023 mg/L	2	2	1.6	1.8	78	87	10-135	11	20			
Chrysene	ug/L	<0.000027 mg/L	2	2	2.1	2.2	104	111	27-144	7	20			
Fluoranthene	ug/L	<0.000026 mg/L	2	2	1.5	1.7	76	84	26-129	9	20			
Fluorene	ug/L	<0.000024 mg/L	2	2	1.4	1.6	69	78	27-120	13	20			
Naphthalene	ug/L	<0.000020 mg/L	2	2	1.4	1.6	70	77	11-120	9	20			
Phenanthrene	ug/L	<0.000026 mg/L	2	2	1.3	1.5	67	74	23-120	10	20			
Pyrene	ug/L	<0.000023 mg/L	2	2	1.5	1.6	75	79	24-120	6	20			
2-Fluorobiphenyl (S)	%						63	73	44-120					
Terphenyl-d14 (S)	%						65	67	49-120					

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

QC Batch: 413226 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: 40243071001, 40243071002

METHOD BLANK: 2379299 Matrix: Water
Associated Lab Samples: 40243071001, 40243071002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	04/15/22 10:53	

LABORATORY CONTROL SAMPLE: 2379300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.0	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2379301 2379302

Parameter	Units	40243257001		2379301		2379302		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					
Sulfate	mg/L	19.7	100	100	100	129	128	110	109	90-110	1	15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2379303 2379304

Parameter	Units	40243071002		2379303		2379304		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					
Sulfate	mg/L	22.8	20	20	20	44.9	44.9	110	110	90-110	0	15

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

QC Batch:	413227	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: 40243071003, 40243071004, 40243071005, 40243071006, 40243071007, 40243071008, 40243071009, 40243071010, 40243071011, 40243071012, 40243071013, 40243071014, 40243071015, 40243071016, 40243071017, 40243071018, 40243071019, 40243071020, 40243071021, 40243071022

METHOD BLANK: 2379431 Matrix: Water
Associated Lab Samples: 40243071003, 40243071004, 40243071005, 40243071006, 40243071007, 40243071008, 40243071009, 40243071010, 40243071011, 40243071012, 40243071013, 40243071014, 40243071015, 40243071016, 40243071017, 40243071018, 40243071019, 40243071020, 40243071021, 40243071022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	04/15/22 13:10	

LABORATORY CONTROL SAMPLE: 2379432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.6	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2379433 2379434

Parameter	Units	40243071004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	35.1	20	20	56.7	56.9	108	109	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2379435 2379436

Parameter	Units	40243071022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	<0.44	20	20	22.2	22.7	111	114	90-110	2	15 M0	

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

QC Batch:	413177	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: 40243071001, 40243071002, 40243071003, 40243071004, 40243071005, 40243071006, 40243071007, 40243071008, 40243071009

METHOD BLANK: 2378904 Matrix: Water
Associated Lab Samples: 40243071001, 40243071002, 40243071003, 40243071004, 40243071005, 40243071006, 40243071007, 40243071008, 40243071009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<5.2	25.0	04/15/22 09:39	

LABORATORY CONTROL SAMPLE: 2378905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	102	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2378906 2378907

Parameter	Units	40243071004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	344	200	200	574	566	115	111	90-110	2	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2378908 2378909

Parameter	Units	40243071009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	401	200	200	622	624	111	112	90-110	0	20	M0

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

QC Batch: 413178 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: 40243071010, 40243071011, 40243071012, 40243071013, 40243071014, 40243071015, 40243071016, 40243071017, 40243071018

METHOD BLANK: 2378910 Matrix: Water
Associated Lab Samples: 40243071010, 40243071011, 40243071012, 40243071013, 40243071014, 40243071015, 40243071016, 40243071017, 40243071018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<5.2	25.0	04/15/22 12:53	

LABORATORY CONTROL SAMPLE: 2378911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	104	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2378912 2378913

Parameter	Units	40243257001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	326	500	500	872	868	109	108	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2378914 2378915

Parameter	Units	40243071018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	277	100	100	381	385	104	107	90-110	1	20	

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

QC Batch: 413179 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: 40243071019, 40243071020, 40243071021, 40243071022

METHOD BLANK: 2378920 Matrix: Water
Associated Lab Samples: 40243071019, 40243071020, 40243071021, 40243071022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<5.2	25.0	04/15/22 10:47	

LABORATORY CONTROL SAMPLE: 2378921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	100	102	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2378922 2378923

Parameter	Units	40243149004		2378922		2378923		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO ₃	mg/L	290	500	500	500	837	832	109	109	90-110	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2378924 2378925

Parameter	Units	40243238004		2378924		2378925		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO ₃	mg/L	374	200	200	200	605	601	115	113	90-110	1	20 M0

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

QC Batch:	413137	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:	40243071001, 40243071002, 40243071003, 40243071004, 40243071005, 40243071006, 40243071007, 40243071008, 40243071009, 40243071010, 40243071011, 40243071012, 40243071013, 40243071014, 40243071015, 40243071016		

METHOD BLANK:	2378696	Matrix:	Water
Associated Lab Samples:	40243071001, 40243071002, 40243071003, 40243071004, 40243071005, 40243071006, 40243071007, 40243071008, 40243071009, 40243071010, 40243071011, 40243071012, 40243071013, 40243071014, 40243071015, 40243071016		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	04/14/22 11:19	

LABORATORY CONTROL SAMPLE:	2378697					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2378698			2378699								
Parameter	Units	40243071004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.25	2.5	2.5	2.7	2.8	98	100	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2378700			2378701								
Parameter	Units	40243071016 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	2.3	2.3	93	93	90-110	0	20	

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QUALITY CONTROL DATA

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

QC Batch: 413138 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: 40243071017, 40243071018, 40243071019, 40243071020, 40243071021, 40243071022

METHOD BLANK: 2378702 Matrix: Water
Associated Lab Samples: 40243071017, 40243071018, 40243071019, 40243071020, 40243071021, 40243071022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	04/14/22 11:40	

LABORATORY CONTROL SAMPLE: 2378703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2378704 2378705

Parameter	Units	40243135003		2378704		2378705		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Nitrogen, NO2 plus NO3	mg/L	0.083J		2.5	2.5	2.6	2.6	101	101	90-110	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2378706 2378707

Parameter	Units	40243171001		2378706		2378707		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Nitrogen, NO2 plus NO3	mg/L	<2500 ug/L		25	25	26.8	26.7	99	99	90-110	0	20

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QUALIFIERS

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 412655

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

ANALYTE QUALIFIERS

1q Analyte was detected in the associated filter blank at a concentration of 0.41ug/L

2q Analyte was detected in the associated filter blank at a concentration of 0.41ug/L.

3q There was no chance to reextract within sample hold time

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.

P4 Sample field preservation does not meet EPA or method recommendations for this analysis.

S0 Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40243071001	040522001	EPA 8015B Modified	412850		
40243071002	040522002	EPA 8015B Modified	412850		
40243071003	040522003	EPA 8015B Modified	412850		
40243071004	040522004	EPA 8015B Modified	412850		
40243071005	040522005	EPA 8015B Modified	412850		
40243071006	040522006	EPA 8015B Modified	412850		
40243071007	040522007	EPA 8015B Modified	412850		
40243071008	040522008	EPA 8015B Modified	412850		
40243071009	040522009	EPA 8015B Modified	412850		
40243071010	040522010	EPA 8015B Modified	412850		
40243071011	040522011	EPA 8015B Modified	412850		
40243071012	040522012	EPA 8015B Modified	412850		
40243071013	040622013	EPA 8015B Modified	412850		
40243071014	040622014	EPA 8015B Modified	412850		
40243071015	040622016	EPA 8015B Modified	412850		
40243071016	040622017	EPA 8015B Modified	412850		
40243071017	040622018	EPA 8015B Modified	412850		
40243071018	040622019	EPA 8015B Modified	412850		
40243071019	040622020	EPA 8015B Modified	412850		
40243071020	040622021	EPA 8015B Modified	412850		
40243071021	040622022	EPA 8015B Modified	413267		
40243071022	040622028	EPA 8015B Modified	413267		
40243071001	040522001	EPA 3010A	412691	EPA 6020B	412908
40243071002	040522002	EPA 3010A	412691	EPA 6020B	412908
40243071003	040522003	EPA 3010A	412691	EPA 6020B	412908
40243071004	040522004	EPA 3010A	412691	EPA 6020B	412908
40243071005	040522005	EPA 3010A	412691	EPA 6020B	412908
40243071006	040522006	EPA 3010A	412691	EPA 6020B	412908
40243071007	040522007	EPA 3010A	412691	EPA 6020B	412908
40243071008	040522008	EPA 3010A	412691	EPA 6020B	412908
40243071009	040522009	EPA 3010A	412691	EPA 6020B	412908
40243071010	040522010	EPA 3010A	413475	EPA 6020B	413566
40243071011	040522011	EPA 3010A	413475	EPA 6020B	413566
40243071012	040522012	EPA 3010A	412691	EPA 6020B	412908
40243071013	040622013	EPA 3010A	412691	EPA 6020B	412908
40243071014	040622014	EPA 3010A	412691	EPA 6020B	412908
40243071015	040622016	EPA 3010A	412691	EPA 6020B	412908
40243071016	040622017	EPA 3010A	412691	EPA 6020B	412908
40243071017	040622018	EPA 3010A	412691	EPA 6020B	412908
40243071018	040622019	EPA 3010A	412691	EPA 6020B	412908
40243071019	040622020	EPA 3010A	412691	EPA 6020B	412908
40243071020	040622021	EPA 3010A	412691	EPA 6020B	412908
40243071021	040622022	EPA 3010A	412691	EPA 6020B	412908
40243071022	040622028	EPA 3010A	412691	EPA 6020B	412908
40243071001	040522001	EPA 3510	412580	EPA 8270E by SIM	412618
40243071002	040522002	EPA 3510	412580	EPA 8270E by SIM	412618

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40243071003	040522003	EPA 3510	412580	EPA 8270E by SIM	412618
40243071004	040522004	EPA 3510	412580	EPA 8270E by SIM	412618
40243071005	040522005	EPA 3510	412580	EPA 8270E by SIM	412618
40243071006	040522006	EPA 3510	412580	EPA 8270E by SIM	412618
40243071007	040522007	EPA 3510	412580	EPA 8270E by SIM	412618
40243071008	040522008	EPA 3510	412580	EPA 8270E by SIM	412618
40243071009	040522009	EPA 3510	412580	EPA 8270E by SIM	412618
40243071010	040522010	EPA 3510	412580	EPA 8270E by SIM	412618
40243071011	040522011	EPA 3510	412580	EPA 8270E by SIM	412618
40243071012	040522012	EPA 3510	412580	EPA 8270E by SIM	412618
40243071013	040622013	EPA 3510	412622	EPA 8270E by SIM	412655
40243071014	040622014	EPA 3510	412622	EPA 8270E by SIM	412655
40243071015	040622016	EPA 3510	412622	EPA 8270E by SIM	412655
40243071016	040622017	EPA 3510	412622	EPA 8270E by SIM	412655
40243071017	040622018	EPA 3510	412622	EPA 8270E by SIM	412655
40243071018	040622019	EPA 3510	412622	EPA 8270E by SIM	412655
40243071019	040622020	EPA 3510	412622	EPA 8270E by SIM	412655
40243071020	040622021	EPA 3510	412622	EPA 8270E by SIM	412655
40243071021	040622022	EPA 3510	412715	EPA 8270E by SIM	412767
40243071022	040622028	EPA 3510	412715	EPA 8270E by SIM	412767
40243071001	040522001	EPA 8260	412590		
40243071002	040522002	EPA 8260	412590		
40243071003	040522003	EPA 8260	412590		
40243071004	040522004	EPA 8260	412590		
40243071005	040522005	EPA 8260	412590		
40243071006	040522006	EPA 8260	412590		
40243071007	040522007	EPA 8260	412590		
40243071008	040522008	EPA 8260	412590		
40243071009	040522009	EPA 8260	412590		
40243071010	040522010	EPA 8260	412590		
40243071011	040522011	EPA 8260	412495		
40243071012	040522012	EPA 8260	412495		
40243071013	040622013	EPA 8260	412590		
40243071014	040622014	EPA 8260	412590		
40243071015	040622016	EPA 8260	412590		
40243071016	040622017	EPA 8260	412590		
40243071017	040622018	EPA 8260	412590		
40243071018	040622019	EPA 8260	412590		
40243071019	040622020	EPA 8260	412590		
40243071020	040622021	EPA 8260	412590		
40243071021	040622022	EPA 8260	412590		
40243071022	040622028	EPA 8260	412590		
40243071001	040522001	EPA 300.0	413226		
40243071002	040522002	EPA 300.0	413226		
40243071003	040522003	EPA 300.0	413227		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MARINETTE FORMER MGP

Pace Project No.: 40243071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40243071004	040522004	EPA 300.0	413227		
40243071005	040522005	EPA 300.0	413227		
40243071006	040522006	EPA 300.0	413227		
40243071007	040522007	EPA 300.0	413227		
40243071008	040522008	EPA 300.0	413227		
40243071009	040522009	EPA 300.0	413227		
40243071010	040522010	EPA 300.0	413227		
40243071011	040522011	EPA 300.0	413227		
40243071012	040522012	EPA 300.0	413227		
40243071013	040622013	EPA 300.0	413227		
40243071014	040622014	EPA 300.0	413227		
40243071015	040622016	EPA 300.0	413227		
40243071016	040622017	EPA 300.0	413227		
40243071017	040622018	EPA 300.0	413227		
40243071018	040622019	EPA 300.0	413227		
40243071019	040622020	EPA 300.0	413227		
40243071020	040622021	EPA 300.0	413227		
40243071021	040622022	EPA 300.0	413227		
40243071022	040622028	EPA 300.0	413227		
40243071001	040522001	EPA 310.2	413177		
40243071002	040522002	EPA 310.2	413177		
40243071003	040522003	EPA 310.2	413177		
40243071004	040522004	EPA 310.2	413177		
40243071005	040522005	EPA 310.2	413177		
40243071006	040522006	EPA 310.2	413177		
40243071007	040522007	EPA 310.2	413177		
40243071008	040522008	EPA 310.2	413177		
40243071009	040522009	EPA 310.2	413177		
40243071010	040522010	EPA 310.2	413178		
40243071011	040522011	EPA 310.2	413178		
40243071012	040522012	EPA 310.2	413178		
40243071013	040622013	EPA 310.2	413178		
40243071014	040622014	EPA 310.2	413178		
40243071015	040622016	EPA 310.2	413178		
40243071016	040622017	EPA 310.2	413178		
40243071017	040622018	EPA 310.2	413178		
40243071018	040622019	EPA 310.2	413178		
40243071019	040622020	EPA 310.2	413179		
40243071020	040622021	EPA 310.2	413179		
40243071021	040622022	EPA 310.2	413179		
40243071022	040622028	EPA 310.2	413179		
40243071001	040522001	EPA 353.2	413137		
40243071002	040522002	EPA 353.2	413137		
40243071003	040522003	EPA 353.2	413137		
40243071004	040522004	EPA 353.2	413137		
40243071005	040522005	EPA 353.2	413137		
40243071006	040522006	EPA 353.2	413137		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MARINETTE FORMER MGP
Pace Project No.: 40243071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40243071007	040522007	EPA 353.2	413137		
40243071008	040522008	EPA 353.2	413137		
40243071009	040522009	EPA 353.2	413137		
40243071010	040522010	EPA 353.2	413137		
40243071011	040522011	EPA 353.2	413137		
40243071012	040522012	EPA 353.2	413137		
40243071013	040622013	EPA 353.2	413137		
40243071014	040622014	EPA 353.2	413137		
40243071015	040622016	EPA 353.2	413137		
40243071016	040622017	EPA 353.2	413137		
40243071017	040622018	EPA 353.2	413138		
40243071018	040622019	EPA 353.2	413138		
40243071019	040622020	EPA 353.2	413138		
40243071020	040622021	EPA 353.2	413138		
40243071021	040622022	EPA 353.2	413138		
40243071022	040622028	EPA 353.2	413138		

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Client Name: Ramboll Sample Preservation Receipt Form
 Project # 40243071

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

Lab Lot# of pH paper: 10D312 Lab Std #ID of preservation (if pH adjusted):

Initial SW Date/
 completed: Time:


Pace Lab #	Glass						Plastic					Vials				Jars				General			VOA Vials (>6mm) *	H ₂ SO ₄ pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO ₃ pH ≤2	pH after adjusted	Volume (mL)								
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU								WPFU	SP5T	ZPLC	GN				
001									1		1	1																									2.5 / 5 / 10
002									1		1	1																									2.5 / 5 / 10
003									1		1	1																									2.5 / 5 / 10
004									3		3	3																									2.5 / 5 / 10
005									1		1	1																									2.5 / 5 / 10
006									1		1	1																									2.5 / 5 / 10
007									1		1	1																									2.5 / 5 / 10
008									1		1	1																									2.5 / 5 / 10
009									1		1	1																									2.5 / 5 / 10
010									1		1	1																									2.5 / 5 / 10
011									1		1	1																									2.5 / 5 / 10
012									1		1	1																									2.5 / 5 / 10
013									1		1	1																									2.5 / 5 / 10
014									1		1	1																									2.5 / 5 / 10
015									1		1	1																									2.5 / 5 / 10
016									1		1	1																									2.5 / 5 / 10
017									1		1	1																									2.5 / 5 / 10
018									1		1	1																									2.5 / 5 / 10
019									1		1	1																									2.5 / 5 / 10
020									1		1	1																									2.5 / 5 / 10

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	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 H ₂ SO ₄	BP3N	250 mL plastic HNO ₃	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H ₂ SO ₄	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H ₂ SO ₄					GN	
BG3U	250 mL clear glass unpres						

Sample Condition Upon Receipt Form (SCUR)

Client Name: Ramboll
Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Project #: _____
WO#: 40243071

 40243071

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 - 105 **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 4,4 /ICorr: 4,4
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: 4/7/22 /Initials: SKW
Labeled By Initials: NK

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Proj #, Filler on Pg 1</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8. <u>See #13</u>
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		4/7/22 SKW
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11. <u>010 + 011 Lab added 1-BP3N</u>
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>Per PM</u> 4/7/22 SKW
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>Listed on COC - None</u>
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<u>in shipment</u> 4/7/22 SKW
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

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