



Wisconsin Public Service Corporation

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

www.wisconsinpublicservice.com

Mr. Brian Miller
City Engineer
City of Marinette
1905 Hall Avenue
Marinette, WI, 54143

June 26, 2019

Subject: **Recent Groundwater Sampling Results**
WPSC Former Marinette MGP Site, 1603 Ely Street, WDNR BRRTS # 02-38-000047
Marinette, Wisconsin

Dear Mr. Miller:

WEC Business Services, LLC (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant site at 1603 Ely Street, is providing groundwater samples results collected as part of semi-annual monitoring from locations MW01R, MW03R, MW05, MW302-MW305, MW307R, MW308, MW310-MW313, and P302-P305 collected between April 15 and 16, 2019. Wisconsin Administrative Code Chapter NR716.14 requires responsible parties (WPSC for the above mentioned site) to report sampling results to the property owner, and occupant, as applicable.

Results of the sampling are summarized in the attached. This includes a summary table of the results compared to State standards. Copies of the relevant portions of the associated laboratory report and a figure showing the locations of samples collected on your property are also included. The results will be presented in the future Remedial Design Report.

We appreciate your ongoing cooperation with the ongoing environmental activities at the site. If you need additional information, please contact Kevin McKnight from the WDNR at 920-424-7890 or myself at 414-221-2156.

Sincerely,

A handwritten signature in black ink that reads 'Frank Dombrowski'.

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

Enc: Figure 1. Monitoring Well Locations City of Marinette
Table 1. Groundwater Analytical Results for the City of Marinette
Laboratory Data Report 40185905_frc

CC: Project file
USEPA RPM – Margaret Gielniewski (email only)
WDNR PM – Kevin McKnight (email and hard copy)



RECENT SAMPLING RESULTS

**WPSC Former Marinette MGP Site
1603 Ely Street, Marinette, Wisconsin
WDNR BRRTS Activity # 02-38-000047**

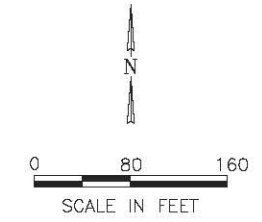
FIGURES

Jan 21, 2015 1:02pm PLOTTED BY: dduddo SAVED BY: dduddo
 W:\CAD\Projects\1549\Marinette\17-5 RI Report Rev\1549-175-Base.dwg -Layout1
 XREFS: Y:\CAD\Projects\1549\Marinette\17-5 RI Report Rev\1549-175-Base 2.dwg



	MONITORING WELL
	PIEZOMETER
	GAS LINE
	WATER LINE
	ELECTRICAL LINE
	OVERHEAD ELECTRIC LINE
	SANITARY SEWER LINE
	STORM SEWER LINE
	UNDERGROUND ELECTRIC LINE
	FORMER SLOUGH
	FORMER MGP PROPERTY LINE (1923)
	FORMER MGP STRUCTURE
	EXISTING STRUCTURE

NOTE:
 SAMPLING LOCATIONS IN BLUE WERE COMPLETED AS PART OF REMEDIAL INVESTIGATION ACTIVITIES IN 2012/2013/2014.



- SOURCE NOTES:**
- THIS DRAWING WAS DEVELOPED FROM A MAP BY THE CITY OF MARINETTE.
 - PORTIONS OF THE DRAWING ARE FROM A DIGITAL FILE FROM STS CONSULTANTS, LTD. CONSULTING ENGINEERS, GREEN BAY, WISCONSIN, PROJECT NUMBER 28936, REVISED JANUARY 2001. HYDROGRAPHIC SURVEY OF RIVER WAS PERFORMED BY AYRES AND ASSOCIATES ON JULY 24-26, 2001. VERTICAL CONTROL IS U.S.G.S. DATUM. BUILDING AND STREET LOCATIONS NORTH OF RAILROAD TRACKS WERE SUPPLIED BY MARINETTE MARINE CORPORATION.
 - PORTIONS OF THIS DRAWING ARE FROM HYDRO-SEARCH DRAWING.
 - EXISTING STRUCTURES AND UTILITIES FROM FOTH & VAN DYKE ENGINEERS/ARCHITECTS, GRADING PLAN, DIGITAL FILE 7m755608.DWG, RECORD DRAWING REVISIONS 22280 AND FROM SMET CONSTRUCTION SERVICES PDF DRAWING SET "MARINETTE MARINE BLDG 32 OUTFITTING", SHEET C1.1, DATED APRIL 24, 2012.
 - WELL LOCATIONS FROM A SURVEY BY WPSO DATED OCTOBER 8, 2003, REVISED OCTOBER 31, 2003.
 - VERTICAL CONTROL IS NAVD83 DATUM
 - BRICK INTERCEPTOR SEWER REPLACEMENT TAKEN FROM DRAWING BY AYRES ASSOCIATES, GREEN BAY, WISCONSIN, JOB NO. 18-0188.10, DRAWING NO. P101, SHEET NO. 7, DATED 3/4/03.
 - MONITORING WELLS MW2R, MW3R, MW307R INSTALLED OCTOBER 2004 AND MW308, MW310, P305 INSTALLED JUNE 2004. SURVEYED BY WPSO IN JANUARY 2005. (NAVD83, MARINETTE COUNTY COORDINATES).
 - POSTORINO USTs WERE IDENTIFIED IN AYRES ASSOCIATES SITE ASSESSMENT AND REMEDIAL ACTION OPTIONS REPORT. CITY OF MARINETTE PROPERTY 500 MANN STREET MARINETTE WISCONSIN 54143 DATED AUGUST 2010.
 - BOOM LANDING SITE WAS DEVELOPED FROM A SURVEY DONE BY WISCONSIN PUBLIC SERVICE BY KJR BOOM LANDING SITE FEATURES DEVELOPED FROM A SURVEY ON 08/14/12, DRAWING "BOOM LANDING 8 - 12". THE CHANNEL LIMITS AND PORTIONS OF THE SHORELINE ARE FROM U.S. ARMY CORPS OF ENGINEERS DRAWING "CONDITION OF CHANNEL-SEP. 2008", SHEET 4 OF 4.
 - HORIZONTAL DATUM IS MARINETTE COUNTY COORDINATE SYSTEM, UNITS=US FOOT.
 - SOME OFF-SITE UPLAND FEATURES DIGITIZED FROM BING MAPS AERIAL- © 2012 MICROSOFT CORPORATION.
 - BM-SG IS LOCATED ON TOP OF SHEET PILE WALL EAST OF BOAT RAMP.
 - SAMPLING LOCATIONS SB352 THROUGH SB370 COLLECTED BY NRT, OCTOBER 2014.

DRAWN BY:	DMD	DATE:	11/13/14
CHECKED BY:	NDK	DATE:	11/24/14
APPROVED BY:	BGH	DATE:	01/21/15
DRAWING NO:	1549-175-B06		
REFERENCE:			

**MONITORING WELL LOCATIONS
 CITY OF MARINETTE**

**REMEDIAL INVESTIGATION REPORT - REVISION 2
 FORMER MARINETTE MGP SITE
 WISCONSIN PUBLIC SERVICE CORPORATION
 MARINETTE, WISCONSIN**



PROJECT NO.
 1549/17.5

FIGURE NO.
 1

TABLES

Table 1. Groundwater Analytical Results for the City of Marinette

April 2019 Sample Results Notification
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant
 Marinette, Wisconsin
 BRRTS# 0238000047
 CERCLIS ID -WIN000509952

9-digit Code	Station Name	Sample Date	BTEX		BTEX		BTEX		BTEX		BTEX		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH							
			Benzene	Ethylbenzene	Toluene	Xylene, o	Xylenes, m + p	Xylenes, Total	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene																
Reporting Units:			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L						
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag				
WI Groundwater ES:			5		700		800		NS		NS		2,000		3,000		0.2		0.2		NS		0.2		400		400		100		NS		250	
WI Groundwater PAL:			<u>0.5</u>		<u>140</u>		<u>160</u>		<u>NS</u>		<u>NS</u>		<u>400</u>		<u>600</u>		<u>0.02</u>		<u>0.02</u>		<u>NS</u>		<u>0.02</u>		<u>80</u>		<u>80</u>		<u>10</u>		<u>NS</u>		<u>50</u>	
041619015	MW01R	4/16/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.011	U	<0.011	U	0.011	J	<0.0071	U	<0.014	U	<0.011	U	<0.0084	U	<0.019	U	<0.015	U	<0.0081	U
041619019	MW03R	4/16/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.016	J	<u>0.020</u>	J	<u>0.029</u>	J	0.018	J	<u>0.027</u>	J	0.021	J	<0.0088	U	<0.020	U	<0.015	U	0.020	J
041519007	MW05	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.011	U	<0.011	U	<0.0060	U	<0.0071	U	<0.014	U	<0.011	U	<0.0083	U	0.047	J	<0.014	U	<0.0080	U
041519008	MW05 (Dup)	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.011	U	<0.011	U	0.011	J	0.0080	J	<u>0.020</u>	J	0.025	J	<0.0085	U	<0.020	U	0.021	J	0.020	J
041519002	MW302	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.030	J	<u>0.094</u>	J	<u>0.088</u>	J	0.075	J	<u>0.11</u>	J	0.091	J	<0.0085	U	<0.020	U	0.025	J	0.091	J
041519005	MW303	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.025	J	<0.011	U	0.014	J	0.0086	J	<0.014	U	<0.011	U	<0.0084	U	<0.019	U	<0.015	U	0.019	J
041519004	MW304	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.028	J	<0.012	U	<0.0068	U	<0.0080	U	<0.015	U	<0.013	U	<0.0094	U	<0.022	U	<0.016	U	<0.0090	U
041519001	MW305	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.023	J	<0.011	U	<0.0062	U	<0.0073	U	<0.014	U	<0.011	U	<0.0086	U	<0.020	U	<0.015	U	<0.0082	U
041519011	MW307R	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.077	J	<u>0.041</u>	J	<u>0.063</u>	J	0.031	J	<u>0.093</u>	J	0.20	J	0.19	J	0.033	J	0.13	J	0.19	J
041519009	MW308	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.010	U	<0.010	U	<0.0057	U	<0.0067	U	<0.013	U	0.012	J	<0.0079	U	<0.018	U	<0.014	U	0.011	J
041619016	MW310	4/16/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.038	J	<0.012	U	<0.0065	U	<0.0077	U	0.017	J	0.090	J	0.80	J	0.069	J	0.017	J	0.088	J
041619017	MW310 (Dup)	4/16/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.037	J	<0.012	U	<0.0063	U	<0.0075	U	0.019	J	0.081	J	0.73	J	0.069	J	0.019	J	0.082	J
041619018	MW311	4/16/2019	64.9		74.0		6.0	J	45.1		14.5	J	59.6		3.3		<0.37	U	<0.20	U	<0.24	U	<0.46	U	1.6	J	18.2	J	416		16.8		1.7	
041619014	MW312	4/16/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.035	J	<0.012	U	<0.0067	U	<0.0079	U	<0.015	U	0.034	J	0.078	J	<0.021	U	0.049	J	0.034	J
041519006	MW313	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.019	J	<0.011	U	0.012	J	0.011	J	0.017	J	0.024	J	0.012	J	<0.020	U	<0.015	U	0.019	J
041519003	P302	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.011	U	<0.011	U	<0.0060	U	<0.0071	U	<0.014	U	<0.011	U	<0.0084	U	<0.019	U	<0.015	U	<0.0081	U
041619020	P303	4/16/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.021	J	0.015	J	0.015	J	0.011	J	<u>0.027</u>	J	0.024	J	<0.0080	U	<0.018	U	0.022	J	0.030	J
041619021	P304	4/16/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.066	J	<u>0.038</u>	J	<u>0.069</u>	J	0.046	J	<u>0.099</u>	J	0.11	J	<0.010	U	<0.024	U	0.047	J	0.095	J
041519010	P305	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.041	J	<0.011	U	0.011	J	0.0075	J	0.017	J	0.20	J	0.36	J	0.11	J	0.075	J	0.14	J

Notes

BOLD = concentration that attains or exceeds WDNR ES

Underline = concentration that attains or exceeds WDNR PAL

PAL and ES from Chapter NR 140 for Groundwater Quality from Wisconsin Admin Code (Feb 2017)

Lab comments can be found in associated laboratory reports.

< = Concentration is less than the Limit of Detection (LOD)

µg/L = micrograms per liter

BTEX = Benzene, Toluene, Ethylbenzene and Xylene

Dup = Quality Control Field Duplicate Sample

ES = Enforcement Standard

J = Concentration Estimated

NS = No Standard

PAH = Polycyclic Aromatic Hydrocarbon

PAL = Preventive Action Limit

U = Concentration was not detected above the reported limit

Table 1. Groundwater Analytical Results for the City of Marinette

April 2019 Sample Results Notification
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant
 Marinette, Wisconsin
 BRRTS# 0238000047
 CERCLIS ID -WIN000509952

9-digit Code	Station Name	Sample Date	Metal		Metal		Metal		Metal		Metal		Metal		Metal		Inorganic		Inorganic		Inorganic		Organic					
			Aluminum, Dissolved	Antimony, Dissolved	Copper, Dissolved	Iron, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Silver, Dissolved	Vanadium, Dissolved	Zinc, Dissolved	Alkalinity, Total	Nitrogen, NO ₂ + NO ₃ , Total	Sulfate, Total	Methane													
Reporting Units:			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L					
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag				
WI Groundwater ES:			200		6		1,300		300		50		100		50		30		5,000		NS		10,000		250,000		NS	
WI Groundwater PAL:			<u>40</u>		<u>1.2</u>		<u>130</u>		<u>150</u>		<u>25</u>		<u>20</u>		<u>10</u>		<u>6</u>		<u>2,500</u>		<u>NS</u>		<u>2,000</u>		<u>125,000</u>		<u>NS</u>	
041619015	MW01R	4/16/2019	<117	U	<0.30	U	<2.2	U	7,980		723		2.3	J	<0.20	U	1.1	J	9.5	J	411,000		<95	U	<5,000	U	16,800	
041619019	MW03R	4/16/2019	<117	U	0.87	J	6.4	J	<221	U	22.2		2.7		<0.20	U	0.81	J	27.5	J	281,000		<u>9,000</u>		53,700		10.4	
041519007	MW05	4/15/2019	<117	U	<0.30	U	2.7	J	<221	U	178		2.7		<0.20	U	<0.63	U	<9.2	U	252,000		<u>2,200</u>		73,600		<1.4	U
041519008	MW05 (Dup)	4/15/2019	<117	U	<0.30	U	2.3	J	<221	U	219		1.3	J	<0.20	U	<0.63	U	<9.2	U	256,000		<u>2,100</u>		73,700		<1.4	U
041519002	MW302	4/15/2019	<117	U	<0.30	U	4.1	J	<u>286</u>	J	<5.4	U	2.4	J	<0.20	U	<0.63	U	11.2	J	251,000		<u>6,100</u>		102,000		<1.4	U
041519005	MW303	4/15/2019	<117	U	0.72	J	3.8	J	1,340		209		2.0	J	<0.20	U	<0.63	U	12.0	J	314,000		1,800		524,000		111	
041519004	MW304	4/15/2019	<117	U	<u>1.4</u>	J	13.7		<221	U	347		2.2	J	<0.20	U	1.7	J	15.3	J	298,000		1,400		15,000		6.5	
041519001	MW305	4/15/2019	<117	U	<0.30	U	3.4	J	<u>686</u>	J	<5.4	U	2.4	J	<0.20	U	<0.63	U	15.7	J	264,000		<u>5,200</u>		105,000		<1.4	U
041519011	MW307R	4/15/2019	<117	U	<0.30	U	<2.2	U	17,900		848		13.1		<0.20	U	<0.63	U	<9.2	U	344,000		680		<u>137,000</u>		2,780	
041519009	MW308	4/15/2019	<117	U	0.87	J	11.0		416	J	79.1		<u>30.3</u>		<0.20	U	<0.63	U	373		610,000		<u>2,300</u>		569,000		<1.4	U
041619016	MW310	4/16/2019	<117	U	<0.30	U	<2.2	U	17,400		1,040		1.0	J	<0.20	U	1.3	J	10.9	J	420,000		130	J	108,000		1,350	
041619017	MW310 (Dup)	4/16/2019	<117	U	<0.30	U	<2.2	U	17,200		1,040		1.6	J	<0.20	U	1.2	J	15.8	J	481,000		<95	U	107,000		1,440	
041619018	MW311	4/16/2019	<117	U	<0.30	U	3.2	J	33,300		688		1.5	J	<0.20	U	1.5	J	15.7	J	764,000		<95	U	<5,000	U	6,440	
041619014	MW312	4/16/2019	<117	U	<0.30	U	<2.2	U	19,400		903		2.0	J	<0.20	U	<0.63	U	<9.2	U	775,000		<95	U	<5,000	U	20,500	
041519006	MW313	4/15/2019	<117	U	0.54	J	<2.2	U	7,410		723		3.7		<0.20	U	1.4	J	11.1	J	273,000		360		<u>186,000</u>		1,200	
041519003	P302	4/15/2019	<117	U	<0.30	U	<2.2	U	1,540		351		1.5	J	<0.20	U	0.77	J	<9.2	U	262,000		180	J	66,500		17.7	
041619020	P303	4/16/2019	<u>140</u>	J	<0.30	U	2.6	J	<u>268</u>	J	<u>30.6</u>		1.8	J	<0.20	U	0.94	J	15.7	J	147,000		210	J	893,000		<1.4	U
041619021	P304	4/16/2019	--		--		--		--		--		--		--		--		--		--		--		--		--	
041519010	P305	4/15/2019	<117	U	<0.30	U	<2.2	U	685	J	218		1.3	J	<0.20	U	0.74	J	41.1		333,000		180	J	30,400		58.5	

[O:ECK 5/30/2019, SGW 5/31/19, Q: JQW 6/4/19]

Notes

BOLD = concentration that attains or exceeds WDNR ES

Underline = concentration that attains or exceeds WDNR PAL

PAL and ES from Chapter NR 140 for Groundwater Quality from Wisconsin Admin Code (Feb 2017)

Lab comments can be found in associated laboratory reports.

< = Concentration is less than the Limit of Detection (LOD)

µg/L = micrograms per liter

BTEX = Benzene, Toluene, Ethylbenzene and Xylene

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ES = Enforcement Standard

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NS = No Standard

PAH = Polycyclic Aromatic Hydrocarbon

PAL = Preventive Action Limit

U = Concentration was not detected above the reported limit

LABORATORY DATA REPORTS

April 30, 2019

Brian Hennings
OBG
234 W. Florida St, 5th Floor
Milwaukee, WI 53204

RE: Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Dear Brian Hennings:

Enclosed are the analytical results for sample(s) received by the laboratory on April 16, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

cc: NRT Data, OBG



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40185905001	041519001	Water	04/15/19 12:14	04/16/19 16:55
40185905002	041519002	Water	04/15/19 12:55	04/16/19 16:55
40185905003	041519003	Water	04/15/19 13:33	04/16/19 16:55
40185905004	041519004	Water	04/15/19 14:08	04/16/19 16:55
40185905005	041519005	Water	04/15/19 15:06	04/16/19 16:55
40185905006	041519006	Water	04/15/19 15:54	04/16/19 16:55
40185905007	041519007	Water	04/15/19 16:35	04/16/19 16:55
40185905008	041519008	Water	04/15/19 16:40	04/16/19 16:55
40185905009	041519009	Water	04/15/19 17:21	04/16/19 16:55
40185905010	041519010	Water	04/15/19 17:51	04/16/19 16:55
40185905011	041519011	Water	04/15/19 18:32	04/16/19 16:55
40185905012	041519012	Water	04/15/19 18:50	04/16/19 16:55
██████████	██████████	██████████	██████████	██████████
40185905014	041619014	Water	04/16/19 08:37	04/16/19 16:55
40185905015	041619015	Water	04/16/19 09:15	04/16/19 16:55
40185905016	041619016	Water	04/16/19 10:19	04/16/19 16:55
40185905017	041619017	Water	04/16/19 10:24	04/16/19 16:55
40185905018	041619018	Water	04/16/19 11:04	04/16/19 16:55
40185905019	041619019	Water	04/16/19 12:07	04/16/19 16:55
40185905020	041619020	Water	04/16/19 12:30	04/16/19 16:55
40185905021	041619021	Water	04/16/19 12:50	04/16/19 16:55
40185905022	041619022	Water	04/16/19 13:10	04/16/19 16:55
40185905023	041619023	Water	04/16/19 00:00	04/16/19 16:55

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SAMPLE ANALYTE COUNT

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40185905001	041519001	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40185905002	041519002	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40185905003	041519003	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40185905004	041519004	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40185905005	041519005	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40185905006	041519006	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G

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SAMPLE ANALYTE COUNT

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40185905007	041519007	EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	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	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
40185905008	041519008	EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	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	ALD	1	PASI-G
40185905009	041519009	EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	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	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	9	PASI-G
40185905010	041519010	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40185905011	041519011	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	HMB	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory	
40185905012	041519012	EPA 300.0	HMB	1	PASI-G	
		EPA 310.2	DAW	1	PASI-G	
		EPA 353.2	DAW	1	PASI-G	
		EPA 8260	HNW	9	PASI-G	
		[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
40185905014	041619014	EPA 8015B Modified	ALD	1	PASI-G	
		EPA 6020	DS1	9	PASI-G	
		EPA 8270 by HVI	TPO	12	PASI-G	
		EPA 8260	HNW	9	PASI-G	
		EPA 300.0	HMB	1	PASI-G	
		EPA 310.2	DAW	1	PASI-G	
		EPA 353.2	DAW	1	PASI-G	
40185905015	041619015	EPA 8015B Modified	ALD	1	PASI-G	
		EPA 6020	DS1	9	PASI-G	
		EPA 8270 by HVI	TPO	12	PASI-G	
		EPA 8260	HNW	9	PASI-G	
		EPA 300.0	HMB	1	PASI-G	
		EPA 310.2	DAW	1	PASI-G	
		EPA 353.2	DAW	1	PASI-G	
		[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
40185905016	041619016	EPA 8015B Modified	ALD	1	PASI-G	
		EPA 6020	DS1	9	PASI-G	
		EPA 8270 by HVI	TPO	12	PASI-G	
		EPA 8260	HNW	9	PASI-G	
		EPA 300.0	HMB	1	PASI-G	
		EPA 310.2	DAW	1	PASI-G	
		EPA 353.2	DAW	1	PASI-G	
		[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
40185905017	041619017	EPA 8015B Modified	ALD	1	PASI-G	
		EPA 6020	DS1	9	PASI-G	
		EPA 8270 by HVI	TPO	12	PASI-G	
		EPA 8260	HNW	9	PASI-G	
		EPA 300.0	HMB	1	PASI-G	

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SAMPLE ANALYTE COUNT

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40185905018	041619018	EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40185905019	041619019	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40185905020	041619020	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	12	PASI-G
		EPA 8260	HNW	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 8270 by HVI	TPO	12	PASI-G
40185905021	041619021	EPA 8260	LAP	9	PASI-G
		EPA 8260	LAP	9	PASI-G
40185905022	041619022	EPA 8260	LAP	9	PASI-G
40185905023	041619023	EPA 8015B Modified	ALD	1	PASI-G
		EPA 8260	LAP	9	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Method: EPA 8015B Modified

Description: Methane, Ethane, Ethene GCV

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

Date: April 30, 2019

General Information:

20 samples were analyzed for EPA 8015B Modified. 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: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Method: EPA 6020
Description: 6020 MET ICPMS, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 30, 2019

General Information:

19 samples were analyzed for EPA 6020. 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 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Method Blank:

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

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: 318670

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

- 041519001 (Lab ID: 40185905001)
 - Silver, Dissolved
 - Aluminum, Dissolved
 - Copper, Dissolved
 - Iron, Dissolved
 - Manganese, Dissolved
 - Nickel, Dissolved
 - Antimony, Dissolved
 - Vanadium, Dissolved
 - Zinc, Dissolved

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PROJECT NARRATIVE

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Method: EPA 6020

Description: 6020 MET ICPMS, Dissolved

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

Date: April 30, 2019

Analyte Comments:

QC Batch: 318670

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

• 041519002 (Lab ID: 40185905002)

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

• 041519003 (Lab ID: 40185905003)

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

• 041519004 (Lab ID: 40185905004)

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

• 041519005 (Lab ID: 40185905005)

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

• 041519006 (Lab ID: 40185905006)

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

• 041519007 (Lab ID: 40185905007)

- Silver, Dissolved

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PROJECT NARRATIVE

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Method: EPA 6020

Description: 6020 MET ICPMS, Dissolved

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

Date: April 30, 2019

Analyte Comments:

QC Batch: 318670

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

• 041519007 (Lab ID: 40185905007)

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

• 041519008 (Lab ID: 40185905008)

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

• 041519009 (Lab ID: 40185905009)

- Silver, Dissolved
- Aluminum, Dissolved
- Iron, Dissolved
- Antimony, Dissolved
- Vanadium, Dissolved

• 041519010 (Lab ID: 40185905010)

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

• 041519011 (Lab ID: 40185905011)

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

• [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

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PROJECT NARRATIVE

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Method: EPA 6020
Description: 6020 MET ICPMS, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 30, 2019

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

- 041619014 (Lab ID: 40185905014)
 - Silver, Dissolved
 - Aluminum, Dissolved
 - Copper, Dissolved
 - Nickel, Dissolved
 - Antimony, Dissolved
 - Vanadium, Dissolved
 - Zinc, Dissolved
- 041619015 (Lab ID: 40185905015)
 - Silver, Dissolved
 - Aluminum, Dissolved
 - Copper, Dissolved
 - Nickel, Dissolved
 - Antimony, Dissolved
 - Vanadium, Dissolved
 - Zinc, Dissolved
- 041619016 (Lab ID: 40185905016)
 - Silver, Dissolved
 - Aluminum, Dissolved
 - Copper, Dissolved
 - Nickel, Dissolved
 - Antimony, Dissolved
 - Vanadium, Dissolved
 - Zinc, Dissolved
- 041619017 (Lab ID: 40185905017)
 - Silver, Dissolved
 - Aluminum, Dissolved
 - Copper, Dissolved
 - Nickel, Dissolved
 - Antimony, Dissolved
 - Vanadium, Dissolved
 - Zinc, Dissolved
- 041619018 (Lab ID: 40185905018)
 - Silver, Dissolved
 - Aluminum, Dissolved
 - Copper, Dissolved
 - Nickel, Dissolved
 - Antimony, Dissolved
 - Vanadium, Dissolved
 - Zinc, Dissolved

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PROJECT NARRATIVE

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Method: EPA 6020

Description: 6020 MET ICPMS, Dissolved

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

Date: April 30, 2019

Analyte Comments:

QC Batch: 318670

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

- 041619019 (Lab ID: 40185905019)

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

- 041619020 (Lab ID: 40185905020)

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

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PROJECT NARRATIVE

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Method: EPA 8270 by HVI

Description: 8270 MSSV PAH by HVI

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

Date: April 30, 2019

General Information:

20 samples were analyzed for EPA 8270 by HVI. 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: 318761

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

- 041619018 (Lab ID: 40185905018)

- 2-Fluorobiphenyl (S)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: 318893

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

Additional Comments:

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PROJECT NARRATIVE

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Method: EPA 8260

Description: 8260 MSV UST

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

Date: April 30, 2019

General Information:

23 samples were analyzed for EPA 8260. 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: 318626

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

- [REDACTED]
- 041619018 (Lab ID: 40185905018)
 - Dibromofluoromethane (S)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Method: EPA 300.0
Description: 300.0 IC Anions 28 Days
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: April 30, 2019

General Information:

19 samples were analyzed for EPA 300.0. 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: 319140

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40185905004,40185906002

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

- MS (Lab ID: 1854586)
 - Sulfate
- MSD (Lab ID: 1854587)
 - Sulfate

Additional Comments:

Analyte Comments:

QC Batch: 319140

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

- [REDACTED]
- 041619014 (Lab ID: 40185905014)
 - Sulfate
- 041619015 (Lab ID: 40185905015)
 - Sulfate
- 041619018 (Lab ID: 40185905018)
 - Sulfate

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PROJECT NARRATIVE

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Method: EPA 310.2

Description: 310.2 Alkalinity

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

Date: April 30, 2019

General Information:

19 samples were analyzed for EPA 310.2. 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: 319370

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40185905004,40186090001

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

- MS (Lab ID: 1855608)
 - Alkalinity, Total as CaCO₃
- MS (Lab ID: 1855610)
 - Alkalinity, Total as CaCO₃
- MSD (Lab ID: 1855611)
 - Alkalinity, Total as CaCO₃

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ pres.

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

Date: April 30, 2019

General Information:

19 samples were analyzed for EPA 353.2. 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: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Sample: 041519001 **Lab ID: 40185905001** Collected: 04/15/19 12:14 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/17/19 11:22	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<0.117	ug/L	500	117	2	04/18/19 07:09	04/23/19 01:49	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 01:49	7440-36-0	D3
Copper, Dissolved	3.4J	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 01:49	7440-50-8	D3
Iron, Dissolved	686J	ug/L	737	221	2	04/18/19 07:09	04/23/19 01:49	7439-89-6	D3
Manganese, Dissolved	<5.4	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 01:49	7439-96-5	D3
Nickel, Dissolved	2.4J	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 01:49	7440-02-0	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 01:49	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 01:49	7440-62-2	D3
Zinc, Dissolved	15.7J	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 01:49	7440-66-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	0.023J	ug/L	0.056	0.011	1	04/18/19 08:04	04/18/19 11:56	120-12-7	
Benzo(a)pyrene	<0.011	ug/L	0.057	0.011	1	04/18/19 08:04	04/18/19 11:56	50-32-8	
Benzo(b)fluoranthene	<0.0062	ug/L	0.031	0.0062	1	04/18/19 08:04	04/18/19 11:56	205-99-2	
Benzo(g,h,i)perylene	<0.0073	ug/L	0.036	0.0073	1	04/18/19 08:04	04/18/19 11:56	191-24-2	
Chrysene	<0.014	ug/L	0.070	0.014	1	04/18/19 08:04	04/18/19 11:56	218-01-9	
Fluoranthene	<0.011	ug/L	0.057	0.011	1	04/18/19 08:04	04/18/19 11:56	206-44-0	
Fluorene	<0.0086	ug/L	0.043	0.0086	1	04/18/19 08:04	04/18/19 11:56	86-73-7	
Naphthalene	<0.020	ug/L	0.099	0.020	1	04/18/19 08:04	04/18/19 11:56	91-20-3	
Phenanthrene	<0.015	ug/L	0.074	0.015	1	04/18/19 08:04	04/18/19 11:56	85-01-8	
Pyrene	<0.0082	ug/L	0.041	0.0082	1	04/18/19 08:04	04/18/19 11:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	30-85		1	04/18/19 08:04	04/18/19 11:56	321-60-8	
Terphenyl-d14 (S)	81	%	10-120		1	04/18/19 08:04	04/18/19 11:56	1718-51-0	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 18:33	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 18:33	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 18:33	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 18:33	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 18:33	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 18:33	95-47-6	
Surrogates									
Dibromofluoromethane (S)	94	%	70-130		1		04/17/19 18:33	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/17/19 18:33	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		04/17/19 18:33	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	105	mg/L	15.0	5.0	5		04/24/19 18:53	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	264	mg/L	23.5	7.0	1		04/25/19 09:15		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Sample: 041519001 Lab ID: 40185905001 Collected: 04/15/19 12:14 Received: 04/16/19 16:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	5.2	mg/L	0.25	0.095	1		04/18/19 11:35		

Sample: 041519002 Lab ID: 40185905002 Collected: 04/15/19 12:55 Received: 04/16/19 16:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/17/19 09:58	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<117	ug/L	500	117	2	04/18/19 07:09	04/23/19 02:03	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 02:03	7440-36-0	D3
Copper, Dissolved	4.1J	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 02:03	7440-50-8	D3
Iron, Dissolved	286J	ug/L	737	221	2	04/18/19 07:09	04/23/19 02:03	7439-89-6	D3
Manganese, Dissolved	<5.4	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 02:03	7439-96-5	D3
Nickel, Dissolved	2.4J	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 02:03	7440-02-0	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 02:03	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 02:03	7440-62-2	D3
Zinc, Dissolved	11.2J	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 02:03	7440-66-6	D3

8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	0.030J	ug/L	0.056	0.011	1	04/18/19 08:04	04/18/19 12:14	120-12-7	
Benzo(a)pyrene	0.094	ug/L	0.056	0.011	1	04/18/19 08:04	04/18/19 12:14	50-32-8	
Benzo(b)fluoranthene	0.088	ug/L	0.031	0.0061	1	04/18/19 08:04	04/18/19 12:14	205-99-2	
Benzo(g,h,i)perylene	0.075	ug/L	0.036	0.0072	1	04/18/19 08:04	04/18/19 12:14	191-24-2	
Chrysene	0.11	ug/L	0.069	0.014	1	04/18/19 08:04	04/18/19 12:14	218-01-9	
Fluoranthene	0.091	ug/L	0.057	0.011	1	04/18/19 08:04	04/18/19 12:14	206-44-0	
Fluorene	<0.0085	ug/L	0.042	0.0085	1	04/18/19 08:04	04/18/19 12:14	86-73-7	
Naphthalene	<0.020	ug/L	0.097	0.020	1	04/18/19 08:04	04/18/19 12:14	91-20-3	
Phenanthrene	0.025J	ug/L	0.073	0.015	1	04/18/19 08:04	04/18/19 12:14	85-01-8	
Pyrene	0.091	ug/L	0.041	0.0081	1	04/18/19 08:04	04/18/19 12:14	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	30-85		1	04/18/19 08:04	04/18/19 12:14	321-60-8	
Terphenyl-d14 (S)	76	%	10-120		1	04/18/19 08:04	04/18/19 12:14	1718-51-0	

8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 18:55	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 18:55	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 18:55	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 18:55	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 18:55	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 18:55	95-47-6	
Surrogates									
Dibromofluoromethane (S)	96	%	70-130		1		04/17/19 18:55	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041519002 Lab ID: 40185905002 Collected: 04/15/19 12:55 Received: 04/16/19 16:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	97	%	70-130		1		04/17/19 18:55	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		04/17/19 18:55	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	102	mg/L	15.0	5.0	5		04/25/19 02:49	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	251	mg/L	23.5	7.0	1		04/25/19 09:15		
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	6.1	mg/L	0.25	0.095	1		04/18/19 11:36		

Sample: 041519003 Lab ID: 40185905003 Collected: 04/15/19 13:33 Received: 04/16/19 16:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	17.7	ug/L	2.8	1.4	1		04/17/19 10:06	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<117	ug/L	500	117	2	04/18/19 07:09	04/23/19 02:10	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 02:10	7440-36-0	D3
Copper, Dissolved	<2.2	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 02:10	7440-50-8	D3
Iron, Dissolved	1540	ug/L	737	221	2	04/18/19 07:09	04/23/19 02:10	7439-89-6	
Manganese, Dissolved	351	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 02:10	7439-96-5	
Nickel, Dissolved	1.5J	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 02:10	7440-02-0	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 02:10	7440-22-4	D3
Vanadium, Dissolved	0.77J	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 02:10	7440-62-2	D3
Zinc, Dissolved	<9.2	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 02:10	7440-66-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	<0.011	ug/L	0.055	0.011	1	04/18/19 08:04	04/18/19 12:32	120-12-7	
Benzo(a)pyrene	<0.011	ug/L	0.055	0.011	1	04/18/19 08:04	04/18/19 12:32	50-32-8	
Benzo(b)fluoranthene	<0.0060	ug/L	0.030	0.0060	1	04/18/19 08:04	04/18/19 12:32	205-99-2	
Benzo(g,h,i)perylene	<0.0071	ug/L	0.036	0.0071	1	04/18/19 08:04	04/18/19 12:32	191-24-2	
Chrysene	<0.014	ug/L	0.069	0.014	1	04/18/19 08:04	04/18/19 12:32	218-01-9	
Fluoranthene	<0.011	ug/L	0.056	0.011	1	04/18/19 08:04	04/18/19 12:32	206-44-0	
Fluorene	<0.0084	ug/L	0.042	0.0084	1	04/18/19 08:04	04/18/19 12:32	86-73-7	
Naphthalene	<0.019	ug/L	0.096	0.019	1	04/18/19 08:04	04/18/19 12:32	91-20-3	
Phenanthrene	<0.015	ug/L	0.073	0.015	1	04/18/19 08:04	04/18/19 12:32	85-01-8	
Pyrene	<0.0081	ug/L	0.040	0.0081	1	04/18/19 08:04	04/18/19 12:32	129-00-0	
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	55	%	30-85		1	04/18/19 08:04	04/18/19 12:32	321-60-8	

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041519003 Lab ID: 40185905003 Collected: 04/15/19 13:33 Received: 04/16/19 16:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
<i>Surrogates</i>									
Terphenyl-d14 (S)	80	%	10-120		1	04/18/19 08:04	04/18/19 12:32	1718-51-0	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 19:16	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 19:16	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 19:16	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 19:16	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 19:16	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 19:16	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	95	%	70-130		1		04/17/19 19:16	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/17/19 19:16	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		04/17/19 19:16	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	66.5	mg/L	15.0	5.0	5		04/25/19 03:02	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	262	mg/L	47.0	14.1	2		04/25/19 09:18		
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.18J	mg/L	0.25	0.095	1		04/18/19 11:36		

Sample: 041519004 Lab ID: 40185905004 Collected: 04/15/19 14:08 Received: 04/16/19 16:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	6.5	ug/L	2.8	1.4	1		04/17/19 10:13	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<117	ug/L	500	117	2	04/18/19 07:09	04/23/19 01:22	7429-90-5	D3
Antimony, Dissolved	1.4J	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 01:22	7440-36-0	D3
Copper, Dissolved	13.7	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 01:22	7440-50-8	
Iron, Dissolved	<221	ug/L	737	221	2	04/18/19 07:09	04/23/19 01:22	7439-89-6	D3
Manganese, Dissolved	347	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 01:22	7439-96-5	
Nickel, Dissolved	2.2J	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 01:22	7440-02-0	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 01:22	7440-22-4	D3
Vanadium, Dissolved	1.7J	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 01:22	7440-62-2	D3
Zinc, Dissolved	15.3J	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 01:22	7440-66-6	D3

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041519004 **Lab ID: 40185905004** Collected: 04/15/19 14:08 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	0.028J	ug/L	0.061	0.012	1	04/18/19 08:04	04/18/19 11:01	120-12-7	
Benzo(a)pyrene	<0.012	ug/L	0.062	0.012	1	04/18/19 08:04	04/18/19 11:01	50-32-8	
Benzo(b)fluoranthene	<0.0068	ug/L	0.034	0.0068	1	04/18/19 08:04	04/18/19 11:01	205-99-2	
Benzo(g,h,i)perylene	<0.0080	ug/L	0.040	0.0080	1	04/18/19 08:04	04/18/19 11:01	191-24-2	
Chrysene	<0.015	ug/L	0.077	0.015	1	04/18/19 08:04	04/18/19 11:01	218-01-9	
Fluoranthene	<0.013	ug/L	0.063	0.013	1	04/18/19 08:04	04/18/19 11:01	206-44-0	
Fluorene	<0.0094	ug/L	0.047	0.0094	1	04/18/19 08:04	04/18/19 11:01	86-73-7	
Naphthalene	<0.022	ug/L	0.11	0.022	1	04/18/19 08:04	04/18/19 11:01	91-20-3	
Phenanthrene	<0.016	ug/L	0.081	0.016	1	04/18/19 08:04	04/18/19 11:01	85-01-8	
Pyrene	<0.0090	ug/L	0.045	0.0090	1	04/18/19 08:04	04/18/19 11:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%	30-85		1	04/18/19 08:04	04/18/19 11:01	321-60-8	
Terphenyl-d14 (S)	80	%	10-120		1	04/18/19 08:04	04/18/19 11:01	1718-51-0	

8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 17:29	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 17:29	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 17:29	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 17:29	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 17:29	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 17:29	95-47-6	
Surrogates									
Dibromofluoromethane (S)	94	%	70-130		1		04/17/19 17:29	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/17/19 17:29	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		04/17/19 17:29	460-00-4	

300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	15.0	mg/L	3.0	1.0	1		04/24/19 13:27	14808-79-8	

310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	298	mg/L	47.0	14.1	2		04/25/19 09:19		M0

353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	1.4	mg/L	0.25	0.095	1		04/18/19 11:37		

Sample: 041519005 **Lab ID: 40185905005** Collected: 04/15/19 15:06 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	111	ug/L	2.8	1.4	1		04/17/19 10:20	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<117	ug/L	500	117	2	04/18/19 07:09	04/23/19 02:30	7429-90-5	D3

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041519005 **Lab ID: 40185905005** Collected: 04/15/19 15:06 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony, Dissolved	0.72J	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 02:30	7440-36-0	D3
Copper, Dissolved	3.8J	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 02:30	7440-50-8	D3
Iron, Dissolved	1340	ug/L	737	221	2	04/18/19 07:09	04/23/19 02:30	7439-89-6	
Manganese, Dissolved	209	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 02:30	7439-96-5	
Nickel, Dissolved	2.0J	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 02:30	7440-02-0	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 02:30	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 02:30	7440-62-2	D3
Zinc, Dissolved	12.0J	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 02:30	7440-66-6	D3
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	0.025J	ug/L	0.055	0.011	1	04/18/19 08:04	04/18/19 12:50	120-12-7	
Benzo(a)pyrene	<0.011	ug/L	0.055	0.011	1	04/18/19 08:04	04/18/19 12:50	50-32-8	
Benzo(b)fluoranthene	0.014J	ug/L	0.030	0.0060	1	04/18/19 08:04	04/18/19 12:50	205-99-2	
Benzo(g,h,i)perylene	0.0086J	ug/L	0.036	0.0071	1	04/18/19 08:04	04/18/19 12:50	191-24-2	
Chrysene	<0.014	ug/L	0.069	0.014	1	04/18/19 08:04	04/18/19 12:50	218-01-9	
Fluoranthene	<0.011	ug/L	0.056	0.011	1	04/18/19 08:04	04/18/19 12:50	206-44-0	
Fluorene	<0.0084	ug/L	0.042	0.0084	1	04/18/19 08:04	04/18/19 12:50	86-73-7	
Naphthalene	<0.019	ug/L	0.096	0.019	1	04/18/19 08:04	04/18/19 12:50	91-20-3	
Phenanthrene	<0.015	ug/L	0.073	0.015	1	04/18/19 08:04	04/18/19 12:50	85-01-8	
Pyrene	0.019J	ug/L	0.040	0.0081	1	04/18/19 08:04	04/18/19 12:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	30-85		1	04/18/19 08:04	04/18/19 12:50	321-60-8	
Terphenyl-d14 (S)	73	%	10-120		1	04/18/19 08:04	04/18/19 12:50	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 19:38	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 19:38	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 19:38	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 19:38	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 19:38	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 19:38	95-47-6	
Surrogates									
Dibromofluoromethane (S)	96	%	70-130		1		04/17/19 19:38	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/17/19 19:38	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		04/17/19 19:38	460-00-4	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Sulfate	524	mg/L	150	50.0	50		04/25/19 03:56	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	314	mg/L	23.5	7.0	1		04/25/19 09:20		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	1.8	mg/L	0.25	0.095	1		04/18/19 11:39		

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041519006 **Lab ID: 40185905006** Collected: 04/15/19 15:54 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	1200	ug/L	56.0	27.4	20		04/17/19 11:43	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<117	ug/L	500	117	2	04/18/19 07:09	04/23/19 02:37	7429-90-5	D3
Antimony, Dissolved	0.54J	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 02:37	7440-36-0	D3
Copper, Dissolved	<2.2	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 02:37	7440-50-8	D3
Iron, Dissolved	7410	ug/L	737	221	2	04/18/19 07:09	04/23/19 02:37	7439-89-6	
Manganese, Dissolved	723	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 02:37	7439-96-5	
Nickel, Dissolved	3.7	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 02:37	7440-02-0	
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 02:37	7440-22-4	D3
Vanadium, Dissolved	1.4J	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 02:37	7440-62-2	D3
Zinc, Dissolved	11.1J	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 02:37	7440-66-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	0.019J	ug/L	0.056	0.011	1	04/18/19 08:04	04/18/19 13:09	120-12-7	
Benzo(a)pyrene	<0.011	ug/L	0.057	0.011	1	04/18/19 08:04	04/18/19 13:09	50-32-8	
Benzo(b)fluoranthene	0.012J	ug/L	0.031	0.0062	1	04/18/19 08:04	04/18/19 13:09	205-99-2	
Benzo(g,h,i)perylene	0.011J	ug/L	0.036	0.0073	1	04/18/19 08:04	04/18/19 13:09	191-24-2	
Chrysene	0.017J	ug/L	0.070	0.014	1	04/18/19 08:04	04/18/19 13:09	218-01-9	
Fluoranthene	0.024J	ug/L	0.057	0.011	1	04/18/19 08:04	04/18/19 13:09	206-44-0	
Fluorene	0.012J	ug/L	0.043	0.0086	1	04/18/19 08:04	04/18/19 13:09	86-73-7	
Naphthalene	<0.020	ug/L	0.099	0.020	1	04/18/19 08:04	04/18/19 13:09	91-20-3	
Phenanthrene	<0.015	ug/L	0.074	0.015	1	04/18/19 08:04	04/18/19 13:09	85-01-8	
Pyrene	0.019J	ug/L	0.041	0.0082	1	04/18/19 08:04	04/18/19 13:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	30-85		1	04/18/19 08:04	04/18/19 13:09	321-60-8	
Terphenyl-d14 (S)	99	%	10-120		1	04/18/19 08:04	04/18/19 13:09	1718-51-0	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 19:59	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 19:59	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 19:59	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 19:59	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 19:59	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 19:59	95-47-6	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		04/17/19 19:59	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/17/19 19:59	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		04/17/19 19:59	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	186	mg/L	30.0	10.0	10		04/25/19 04:09	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	273	mg/L	47.0	14.1	2		04/25/19 09:21		

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041519006 Lab ID: 40185905006 Collected: 04/15/19 15:54 Received: 04/16/19 16:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.36	mg/L	0.25	0.095	1		04/18/19 11:40		

Sample: 041519007 Lab ID: 40185905007 Collected: 04/15/19 16:35 Received: 04/16/19 16:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/17/19 10:34	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<117	ug/L	500	117	2	04/18/19 07:09	04/23/19 02:44	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 02:44	7440-36-0	D3
Copper, Dissolved	2.7J	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 02:44	7440-50-8	D3
Iron, Dissolved	<221	ug/L	737	221	2	04/18/19 07:09	04/23/19 02:44	7439-89-6	D3
Manganese, Dissolved	178	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 02:44	7439-96-5	
Nickel, Dissolved	2.7	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 02:44	7440-02-0	
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 02:44	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 02:44	7440-62-2	D3
Zinc, Dissolved	<9.2	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 02:44	7440-66-6	D3

8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	<0.011	ug/L	0.054	0.011	1	04/18/19 08:04	04/18/19 13:27	120-12-7	
Benzo(a)pyrene	<0.011	ug/L	0.055	0.011	1	04/18/19 08:04	04/18/19 13:27	50-32-8	
Benzo(b)fluoranthene	<0.0060	ug/L	0.030	0.0060	1	04/18/19 08:04	04/18/19 13:27	205-99-2	
Benzo(g,h,i)perylene	<0.0071	ug/L	0.035	0.0071	1	04/18/19 08:04	04/18/19 13:27	191-24-2	
Chrysene	<0.014	ug/L	0.068	0.014	1	04/18/19 08:04	04/18/19 13:27	218-01-9	
Fluoranthene	<0.011	ug/L	0.056	0.011	1	04/18/19 08:04	04/18/19 13:27	206-44-0	
Fluorene	<0.0083	ug/L	0.042	0.0083	1	04/18/19 08:04	04/18/19 13:27	86-73-7	
Naphthalene	0.047J	ug/L	0.095	0.019	1	04/18/19 08:04	04/18/19 13:27	91-20-3	
Phenanthrene	<0.014	ug/L	0.072	0.014	1	04/18/19 08:04	04/18/19 13:27	85-01-8	
Pyrene	<0.0080	ug/L	0.040	0.0080	1	04/18/19 08:04	04/18/19 13:27	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	30-85		1	04/18/19 08:04	04/18/19 13:27	321-60-8	
Terphenyl-d14 (S)	96	%	10-120		1	04/18/19 08:04	04/18/19 13:27	1718-51-0	

8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 20:21	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 20:21	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 20:21	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 20:21	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 20:21	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 20:21	95-47-6	
Surrogates									
Dibromofluoromethane (S)	97	%	70-130		1		04/17/19 20:21	1868-53-7	

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041519007 **Lab ID: 40185905007** Collected: 04/15/19 16:35 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	99	%	70-130		1		04/17/19 20:21	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		04/17/19 20:21	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	73.6	mg/L	15.0	5.0	5		04/25/19 13:06	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	252	mg/L	23.5	7.0	1		04/25/19 09:21		
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	2.2	mg/L	0.25	0.095	1		04/18/19 11:42		

Sample: 041519008 **Lab ID: 40185905008** Collected: 04/15/19 16:40 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/17/19 10:41	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<117	ug/L	500	117	2	04/18/19 07:09	04/23/19 02:51	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 02:51	7440-36-0	D3
Copper, Dissolved	2.3J	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 02:51	7440-50-8	D3
Iron, Dissolved	<221	ug/L	737	221	2	04/18/19 07:09	04/23/19 02:51	7439-89-6	D3
Manganese, Dissolved	219	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 02:51	7439-96-5	
Nickel, Dissolved	1.3J	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 02:51	7440-02-0	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 02:51	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 02:51	7440-62-2	D3
Zinc, Dissolved	<9.2	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 02:51	7440-66-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	<0.011	ug/L	0.056	0.011	1	04/18/19 08:04	04/18/19 13:45	120-12-7	
Benzo(a)pyrene	<0.011	ug/L	0.056	0.011	1	04/18/19 08:04	04/18/19 13:45	50-32-8	
Benzo(b)fluoranthene	0.011J	ug/L	0.031	0.0061	1	04/18/19 08:04	04/18/19 13:45	205-99-2	
Benzo(g,h,i)perylene	0.0080J	ug/L	0.036	0.0072	1	04/18/19 08:04	04/18/19 13:45	191-24-2	
Chrysene	0.020J	ug/L	0.069	0.014	1	04/18/19 08:04	04/18/19 13:45	218-01-9	
Fluoranthene	0.025J	ug/L	0.057	0.011	1	04/18/19 08:04	04/18/19 13:45	206-44-0	
Fluorene	<0.0085	ug/L	0.042	0.0085	1	04/18/19 08:04	04/18/19 13:45	86-73-7	
Naphthalene	<0.020	ug/L	0.097	0.020	1	04/18/19 08:04	04/18/19 13:45	91-20-3	
Phenanthrene	0.021J	ug/L	0.073	0.015	1	04/18/19 08:04	04/18/19 13:45	85-01-8	
Pyrene	0.020J	ug/L	0.041	0.0081	1	04/18/19 08:04	04/18/19 13:45	129-00-0	
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	62	%	30-85		1	04/18/19 08:04	04/18/19 13:45	321-60-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Sample: 041519008 **Lab ID: 40185905008** Collected: 04/15/19 16:40 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
<i>Surrogates</i>									
Terphenyl-d14 (S)	91	%	10-120		1	04/18/19 08:04	04/18/19 13:45	1718-51-0	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 20:42	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 20:42	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 20:42	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 20:42	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 20:42	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 20:42	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	96	%	70-130		1		04/17/19 20:42	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/17/19 20:42	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		04/17/19 20:42	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	73.7	mg/L	15.0	5.0	5		04/25/19 13:19	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	256	mg/L	23.5	7.0	1		04/25/19 09:22		
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	2.1	mg/L	0.25	0.095	1		04/18/19 11:43		

Sample: 041519009 **Lab ID: 40185905009** Collected: 04/15/19 17:21 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/24/19 08:57	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<117	ug/L	500	117	2	04/18/19 07:09	04/23/19 02:58	7429-90-5	D3
Antimony, Dissolved	0.87J	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 02:58	7440-36-0	D3
Copper, Dissolved	11.0	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 02:58	7440-50-8	
Iron, Dissolved	416J	ug/L	737	221	2	04/18/19 07:09	04/23/19 02:58	7439-89-6	D3
Manganese, Dissolved	79.1	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 02:58	7439-96-5	
Nickel, Dissolved	30.3	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 02:58	7440-02-0	
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 02:58	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 02:58	7440-62-2	D3
Zinc, Dissolved	373	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 02:58	7440-66-6	

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041519009 **Lab ID: 40185905009** Collected: 04/15/19 17:21 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	<0.010	ug/L	0.052	0.010	1	04/18/19 08:04	04/18/19 14:04	120-12-7	
Benzo(a)pyrene	<0.010	ug/L	0.052	0.010	1	04/18/19 08:04	04/18/19 14:04	50-32-8	
Benzo(b)fluoranthene	<0.0057	ug/L	0.028	0.0057	1	04/18/19 08:04	04/18/19 14:04	205-99-2	
Benzo(g,h,i)perylene	<0.0067	ug/L	0.034	0.0067	1	04/18/19 08:04	04/18/19 14:04	191-24-2	
Chrysene	<0.013	ug/L	0.065	0.013	1	04/18/19 08:04	04/18/19 14:04	218-01-9	
Fluoranthene	0.012J	ug/L	0.053	0.011	1	04/18/19 08:04	04/18/19 14:04	206-44-0	
Fluorene	<0.0079	ug/L	0.039	0.0079	1	04/18/19 08:04	04/18/19 14:04	86-73-7	
Naphthalene	<0.018	ug/L	0.091	0.018	1	04/18/19 08:04	04/18/19 14:04	91-20-3	
Phenanthrene	<0.014	ug/L	0.068	0.014	1	04/18/19 08:04	04/18/19 14:04	85-01-8	
Pyrene	0.011J	ug/L	0.038	0.0076	1	04/18/19 08:04	04/18/19 14:04	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	30-85		1	04/18/19 08:04	04/18/19 14:04	321-60-8	
Terphenyl-d14 (S)	75	%	10-120		1	04/18/19 08:04	04/18/19 14:04	1718-51-0	

8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 21:04	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 21:04	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 21:04	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 21:04	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 21:04	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 21:04	95-47-6	
Surrogates									
Dibromofluoromethane (S)	97	%	70-130		1		04/17/19 21:04	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/17/19 21:04	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		04/17/19 21:04	460-00-4	

300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	569	mg/L	300	100	100		04/25/19 13:32	14808-79-8	

310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	610	mg/L	47.0	14.1	2		04/25/19 09:58		

353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	2.3	mg/L	0.25	0.095	1		04/18/19 11:43		

Sample: 041519010 **Lab ID: 40185905010** Collected: 04/15/19 17:51 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	58.5	ug/L	2.8	1.4	1		04/24/19 09:04	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<117	ug/L	500	117	2	04/18/19 07:09	04/23/19 03:05	7429-90-5	D3

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Sample: 041519010 **Lab ID: 40185905010** Collected: 04/15/19 17:51 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 03:05	7440-36-0	D3
Copper, Dissolved	<2.2	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 03:05	7440-50-8	D3
Iron, Dissolved	685J	ug/L	737	221	2	04/18/19 07:09	04/23/19 03:05	7439-89-6	D3
Manganese, Dissolved	218	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 03:05	7439-96-5	
Nickel, Dissolved	1.3J	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 03:05	7440-02-0	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 03:05	7440-22-4	D3
Vanadium, Dissolved	0.74J	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 03:05	7440-62-2	D3
Zinc, Dissolved	41.1	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 03:05	7440-66-6	
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	0.041J	ug/L	0.057	0.011	1	04/18/19 08:04	04/18/19 15:54	120-12-7	
Benzo(a)pyrene	<0.011	ug/L	0.057	0.011	1	04/18/19 08:04	04/18/19 15:54	50-32-8	
Benzo(b)fluoranthene	0.011J	ug/L	0.031	0.0062	1	04/18/19 08:04	04/18/19 15:54	205-99-2	
Benzo(g,h,i)perylene	0.0075J	ug/L	0.037	0.0074	1	04/18/19 08:04	04/18/19 15:54	191-24-2	
Chrysene	0.017J	ug/L	0.071	0.014	1	04/18/19 08:04	04/18/19 15:54	218-01-9	
Fluoranthene	0.20	ug/L	0.058	0.012	1	04/18/19 08:04	04/18/19 15:54	206-44-0	
Fluorene	0.36	ug/L	0.043	0.0087	1	04/18/19 08:04	04/18/19 15:54	86-73-7	
Naphthalene	0.11	ug/L	0.10	0.020	1	04/18/19 08:04	04/18/19 15:54	91-20-3	
Phenanthrene	0.075	ug/L	0.075	0.015	1	04/18/19 08:04	04/18/19 15:54	85-01-8	
Pyrene	0.14	ug/L	0.042	0.0083	1	04/18/19 08:04	04/18/19 15:54	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	30-85		1	04/18/19 08:04	04/18/19 15:54	321-60-8	
Terphenyl-d14 (S)	85	%	10-120		1	04/18/19 08:04	04/18/19 15:54	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 21:25	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 21:25	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 21:25	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 21:25	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 21:25	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 21:25	95-47-6	
Surrogates									
Dibromofluoromethane (S)	96	%	70-130		1		04/17/19 21:25	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/17/19 21:25	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		04/17/19 21:25	460-00-4	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Sulfate	30.4	mg/L	3.0	1.0	1		04/24/19 15:14	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	333	mg/L	23.5	7.0	1		04/25/19 09:23		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.18J	mg/L	0.25	0.095	1		04/18/19 11:44		

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Sample: 041519011 **Lab ID: 40185905011** Collected: 04/15/19 18:32 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	2780	ug/L	28.0	13.7	10		04/24/19 11:48	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<0.117	ug/L	500	117	2	04/18/19 07:09	04/23/19 03:12	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 03:12	7440-36-0	D3
Copper, Dissolved	<2.2	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 03:12	7440-50-8	D3
Iron, Dissolved	17900	ug/L	737	221	2	04/18/19 07:09	04/23/19 03:12	7439-89-6	
Manganese, Dissolved	848	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 03:12	7439-96-5	
Nickel, Dissolved	13.1	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 03:12	7440-02-0	
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 03:12	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 03:12	7440-62-2	D3
Zinc, Dissolved	<9.2	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 03:12	7440-66-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	0.077	ug/L	0.056	0.011	1	04/18/19 08:04	04/18/19 16:13	120-12-7	
Benzo(a)pyrene	0.041J	ug/L	0.057	0.011	1	04/18/19 08:04	04/18/19 16:13	50-32-8	
Benzo(b)fluoranthene	0.063	ug/L	0.031	0.0062	1	04/18/19 08:04	04/18/19 16:13	205-99-2	
Benzo(g,h,i)perylene	0.031J	ug/L	0.036	0.0073	1	04/18/19 08:04	04/18/19 16:13	191-24-2	
Chrysene	0.093	ug/L	0.070	0.014	1	04/18/19 08:04	04/18/19 16:13	218-01-9	
Fluoranthene	0.20	ug/L	0.057	0.011	1	04/18/19 08:04	04/18/19 16:13	206-44-0	
Fluorene	0.19	ug/L	0.043	0.0086	1	04/18/19 08:04	04/18/19 16:13	86-73-7	
Naphthalene	0.033J	ug/L	0.099	0.020	1	04/18/19 08:04	04/18/19 16:13	91-20-3	
Phenanthrene	0.13	ug/L	0.074	0.015	1	04/18/19 08:04	04/18/19 16:13	85-01-8	
Pyrene	0.19	ug/L	0.041	0.0082	1	04/18/19 08:04	04/18/19 16:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	30-85		1	04/18/19 08:04	04/18/19 16:13	321-60-8	
Terphenyl-d14 (S)	82	%	10-120		1	04/18/19 08:04	04/18/19 16:13	1718-51-0	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 21:47	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 21:47	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 21:47	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 21:47	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 21:47	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 21:47	95-47-6	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		04/17/19 21:47	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/17/19 21:47	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		04/17/19 21:47	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	137	mg/L	15.0	5.0	5		04/24/19 15:27	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	344	mg/L	47.0	14.1	2		04/25/19 09:26		

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Table with 10 columns: Parameters, Results, Units, LOQ, LOD, DF, Prepared, Analyzed, CAS No., Qual. The content is mostly obscured by black redaction bars.

Sample: 041619014 Lab ID: 40185905014 Collected: 04/16/19 08:37 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Methane	20500	ug/L	280	137	100		04/24/19 12:02	74-82-8	
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<117	ug/L	500	117	2	04/18/19 07:09	04/23/19 03:26	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 03:26	7440-36-0	D3
Copper, Dissolved	<2.2	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 03:26	7440-50-8	D3
Iron, Dissolved	19400	ug/L	737	221	2	04/18/19 07:09	04/23/19 03:26	7439-89-6	
Manganese, Dissolved	903	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 03:26	7439-96-5	
Nickel, Dissolved	2.0J	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 03:26	7440-02-0	D3

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041619014 **Lab ID: 40185905014** Collected: 04/16/19 08:37 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 03:26	7440-22-4	D3
Vanadium, Dissolved	<0.63	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 03:26	7440-62-2	D3
Zinc, Dissolved	<9.2	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 03:26	7440-66-6	D3
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	0.035J	ug/L	0.061	0.012	1	04/18/19 08:04	04/18/19 14:22	120-12-7	
Benzo(a)pyrene	<0.012	ug/L	0.061	0.012	1	04/18/19 08:04	04/18/19 14:22	50-32-8	
Benzo(b)fluoranthene	<0.0067	ug/L	0.033	0.0067	1	04/18/19 08:04	04/18/19 14:22	205-99-2	
Benzo(g,h,i)perylene	<0.0079	ug/L	0.039	0.0079	1	04/18/19 08:04	04/18/19 14:22	191-24-2	
Chrysene	<0.015	ug/L	0.076	0.015	1	04/18/19 08:04	04/18/19 14:22	218-01-9	
Fluoranthene	0.034J	ug/L	0.062	0.012	1	04/18/19 08:04	04/18/19 14:22	206-44-0	
Fluorene	0.078	ug/L	0.046	0.0093	1	04/18/19 08:04	04/18/19 14:22	86-73-7	
Naphthalene	<0.021	ug/L	0.11	0.021	1	04/18/19 08:04	04/18/19 14:22	91-20-3	
Phenanthrene	0.049J	ug/L	0.080	0.016	1	04/18/19 08:04	04/18/19 14:22	85-01-8	
Pyrene	0.034J	ug/L	0.044	0.0089	1	04/18/19 08:04	04/18/19 14:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%	30-85		1	04/18/19 08:04	04/18/19 14:22	321-60-8	
Terphenyl-d14 (S)	83	%	10-120		1	04/18/19 08:04	04/18/19 14:22	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 22:30	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 22:30	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 22:30	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 22:30	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 22:30	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 22:30	95-47-6	
Surrogates									
Dibromofluoromethane (S)	96	%	70-130		1		04/17/19 22:30	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/17/19 22:30	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		04/17/19 22:30	460-00-4	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Sulfate	<5.0	mg/L	15.0	5.0	5		04/24/19 16:34	14808-79-8	D3
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	775	mg/L	47.0	14.1	2		04/25/19 09:27		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/18/19 11:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041619015 **Lab ID: 40185905015** Collected: 04/16/19 09:15 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	16800	ug/L	280	137	100		04/24/19 12:09	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<0.117	ug/L	500	117	2	04/18/19 07:09	04/23/19 03:32	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 03:32	7440-36-0	D3
Copper, Dissolved	<2.2	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 03:32	7440-50-8	D3
Iron, Dissolved	7980	ug/L	737	221	2	04/18/19 07:09	04/23/19 03:32	7439-89-6	
Manganese, Dissolved	723	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 03:32	7439-96-5	
Nickel, Dissolved	2.3J	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 03:32	7440-02-0	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 03:32	7440-22-4	D3
Vanadium, Dissolved	1.1J	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 03:32	7440-62-2	D3
Zinc, Dissolved	9.5J	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 03:32	7440-66-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	<0.011	ug/L	0.055	0.011	1	04/18/19 08:04	04/18/19 14:41	120-12-7	
Benzo(a)pyrene	<0.011	ug/L	0.055	0.011	1	04/18/19 08:04	04/18/19 14:41	50-32-8	
Benzo(b)fluoranthene	0.011J	ug/L	0.030	0.0060	1	04/18/19 08:04	04/18/19 14:41	205-99-2	
Benzo(g,h,i)perylene	<0.0071	ug/L	0.036	0.0071	1	04/18/19 08:04	04/18/19 14:41	191-24-2	
Chrysene	<0.014	ug/L	0.069	0.014	1	04/18/19 08:04	04/18/19 14:41	218-01-9	
Fluoranthene	<0.011	ug/L	0.056	0.011	1	04/18/19 08:04	04/18/19 14:41	206-44-0	
Fluorene	<0.0084	ug/L	0.042	0.0084	1	04/18/19 08:04	04/18/19 14:41	86-73-7	
Naphthalene	<0.019	ug/L	0.096	0.019	1	04/18/19 08:04	04/18/19 14:41	91-20-3	
Phenanthrene	<0.015	ug/L	0.073	0.015	1	04/18/19 08:04	04/18/19 14:41	85-01-8	
Pyrene	<0.0081	ug/L	0.040	0.0081	1	04/18/19 08:04	04/18/19 14:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	40	%	30-85		1	04/18/19 08:04	04/18/19 14:41	321-60-8	
Terphenyl-d14 (S)	59	%	10-120		1	04/18/19 08:04	04/18/19 14:41	1718-51-0	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 22:51	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 22:51	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 22:51	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 22:51	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 22:51	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 22:51	95-47-6	
Surrogates									
Dibromofluoromethane (S)	97	%	70-130		1		04/17/19 22:51	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/17/19 22:51	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		04/17/19 22:51	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	<5.0	mg/L	15.0	5.0	5		04/24/19 16:47	14808-79-8	D3
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	411	mg/L	117	35.2	5		04/25/19 09:27		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Sample: 041619015 Lab ID: 40185905015 Collected: 04/16/19 09:15 Received: 04/16/19 16:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/18/19 11:47		

Sample: 041619016 Lab ID: 40185905016 Collected: 04/16/19 10:19 Received: 04/16/19 16:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	1350	ug/L	28.0	13.7	10		04/24/19 12:16	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<117	ug/L	500	117	2	04/18/19 07:09	04/23/19 03:53	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 03:53	7440-36-0	D3
Copper, Dissolved	<2.2	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 03:53	7440-50-8	D3
Iron, Dissolved	17400	ug/L	737	221	2	04/18/19 07:09	04/23/19 03:53	7439-89-6	
Manganese, Dissolved	1040	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 03:53	7439-96-5	
Nickel, Dissolved	1.0J	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 03:53	7440-02-0	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 03:53	7440-22-4	D3
Vanadium, Dissolved	1.3J	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 03:53	7440-62-2	D3
Zinc, Dissolved	10.9J	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 03:53	7440-66-6	D3

8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	0.038J	ug/L	0.059	0.012	1	04/18/19 08:04	04/18/19 16:31	120-12-7	
Benzo(a)pyrene	<0.012	ug/L	0.060	0.012	1	04/18/19 08:04	04/18/19 16:31	50-32-8	
Benzo(b)fluoranthene	<0.0065	ug/L	0.033	0.0065	1	04/18/19 08:04	04/18/19 16:31	205-99-2	
Benzo(g,h,i)perylene	<0.0077	ug/L	0.039	0.0077	1	04/18/19 08:04	04/18/19 16:31	191-24-2	
Chrysene	0.017J	ug/L	0.074	0.015	1	04/18/19 08:04	04/18/19 16:31	218-01-9	
Fluoranthene	0.090	ug/L	0.061	0.012	1	04/18/19 08:04	04/18/19 16:31	206-44-0	
Fluorene	0.80	ug/L	0.045	0.0091	1	04/18/19 08:04	04/18/19 16:31	86-73-7	
Naphthalene	0.069J	ug/L	0.10	0.021	1	04/18/19 08:04	04/18/19 16:31	91-20-3	
Phenanthrene	0.017J	ug/L	0.078	0.016	1	04/18/19 08:04	04/18/19 16:31	85-01-8	
Pyrene	0.088	ug/L	0.043	0.0087	1	04/18/19 08:04	04/18/19 16:31	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	30-85		1	04/18/19 08:04	04/18/19 16:31	321-60-8	
Terphenyl-d14 (S)	83	%	10-120		1	04/18/19 08:04	04/18/19 16:31	1718-51-0	

8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 23:13	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 23:13	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 23:13	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 23:13	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 23:13	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 23:13	95-47-6	
Surrogates									
Dibromofluoromethane (S)	95	%	70-130		1		04/17/19 23:13	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041619016 **Lab ID: 40185905016** Collected: 04/16/19 10:19 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	99	%	70-130		1		04/17/19 23:13	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		04/17/19 23:13	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	108	mg/L	15.0	5.0	5		04/24/19 17:01	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	420	mg/L	117	35.2	5		04/25/19 09:28		
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.13J	mg/L	0.25	0.095	1		04/18/19 11:47		

Sample: 041619017 **Lab ID: 40185905017** Collected: 04/16/19 10:24 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	1440	ug/L	28.0	13.7	10		04/24/19 12:23	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<0.117	ug/L	500	117	2	04/18/19 07:09	04/23/19 04:00	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 04:00	7440-36-0	D3
Copper, Dissolved	<2.2	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 04:00	7440-50-8	D3
Iron, Dissolved	17200	ug/L	737	221	2	04/18/19 07:09	04/23/19 04:00	7439-89-6	
Manganese, Dissolved	1040	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 04:00	7439-96-5	
Nickel, Dissolved	1.6J	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 04:00	7440-02-0	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 04:00	7440-22-4	D3
Vanadium, Dissolved	1.2J	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 04:00	7440-62-2	D3
Zinc, Dissolved	15.8J	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 04:00	7440-66-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	0.037J	ug/L	0.057	0.011	1	04/18/19 08:04	04/18/19 16:50	120-12-7	
Benzo(a)pyrene	<0.012	ug/L	0.058	0.012	1	04/18/19 08:04	04/18/19 16:50	50-32-8	
Benzo(b)fluoranthene	<0.0063	ug/L	0.032	0.0063	1	04/18/19 08:04	04/18/19 16:50	205-99-2	
Benzo(g,h,i)perylene	<0.0075	ug/L	0.037	0.0075	1	04/18/19 08:04	04/18/19 16:50	191-24-2	
Chrysene	0.019J	ug/L	0.072	0.014	1	04/18/19 08:04	04/18/19 16:50	218-01-9	
Fluoranthene	0.081	ug/L	0.059	0.012	1	04/18/19 08:04	04/18/19 16:50	206-44-0	
Fluorene	0.73	ug/L	0.044	0.0088	1	04/18/19 08:04	04/18/19 16:50	86-73-7	
Naphthalene	0.069J	ug/L	0.10	0.020	1	04/18/19 08:04	04/18/19 16:50	91-20-3	
Phenanthrene	0.019J	ug/L	0.076	0.015	1	04/18/19 08:04	04/18/19 16:50	85-01-8	
Pyrene	0.082	ug/L	0.042	0.0084	1	04/18/19 08:04	04/18/19 16:50	129-00-0	
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	55	%	30-85		1	04/18/19 08:04	04/18/19 16:50	321-60-8	

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Sample: 041619017 **Lab ID: 40185905017** Collected: 04/16/19 10:24 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Surrogates									
Terphenyl-d14 (S)	77	%	10-120		1	04/18/19 08:04	04/18/19 16:50	1718-51-0	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 23:34	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 23:34	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 23:34	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 23:34	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 23:34	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 23:34	95-47-6	
Surrogates									
Dibromofluoromethane (S)	99	%	70-130		1		04/17/19 23:34	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/17/19 23:34	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		04/17/19 23:34	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	107	mg/L	15.0	5.0	5		04/24/19 17:14	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	481	mg/L	117	35.2	5		04/25/19 09:29		
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/18/19 11:48		

Sample: 041619018 **Lab ID: 40185905018** Collected: 04/16/19 11:04 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	6440	ug/L	350	171	125		04/24/19 13:33	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<117	ug/L	500	117	2	04/18/19 07:09	04/23/19 04:07	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 04:07	7440-36-0	D3
Copper, Dissolved	3.2J	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 04:07	7440-50-8	D3
Iron, Dissolved	33300	ug/L	737	221	2	04/18/19 07:09	04/23/19 04:07	7439-89-6	
Manganese, Dissolved	688	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 04:07	7439-96-5	
Nickel, Dissolved	1.5J	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 04:07	7440-02-0	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 04:07	7440-22-4	D3
Vanadium, Dissolved	1.5J	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 04:07	7440-62-2	D3
Zinc, Dissolved	15.7J	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 04:07	7440-66-6	D3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041619018 **Lab ID: 40185905018** Collected: 04/16/19 11:04 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	3.3	ug/L	1.8	0.37	33	04/18/19 08:04	04/18/19 15:36	120-12-7	
Benzo(a)pyrene	<0.37	ug/L	1.8	0.37	33	04/18/19 08:04	04/18/19 15:36	50-32-8	
Benzo(b)fluoranthene	<0.20	ug/L	1.0	0.20	33	04/18/19 08:04	04/18/19 15:36	205-99-2	
Benzo(g,h,i)perylene	<0.24	ug/L	1.2	0.24	33	04/18/19 08:04	04/18/19 15:36	191-24-2	
Chrysene	<0.46	ug/L	2.3	0.46	33	04/18/19 08:04	04/18/19 15:36	218-01-9	
Fluoranthene	1.6J	ug/L	1.9	0.37	33	04/18/19 08:04	04/18/19 15:36	206-44-0	
Fluorene	18.2	ug/L	1.4	0.28	33	04/18/19 08:04	04/18/19 15:36	86-73-7	
Naphthalene	416	ug/L	3.2	0.64	33	04/18/19 08:04	04/18/19 15:36	91-20-3	
Phenanthrene	16.8	ug/L	2.4	0.48	33	04/18/19 08:04	04/18/19 15:36	85-01-8	
Pyrene	1.7	ug/L	1.3	0.27	33	04/18/19 08:04	04/18/19 15:36	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0	%	30-85		33	04/18/19 08:04	04/18/19 15:36	321-60-8	S4
Terphenyl-d14 (S)	81	%	10-120		33	04/18/19 08:04	04/18/19 15:36	1718-51-0	

8260 MSV UST Analytical Method: EPA 8260									
Benzene	64.9	ug/L	10.0	2.5	10		04/17/19 18:12	71-43-2	
Ethylbenzene	74.0	ug/L	10.0	2.2	10		04/17/19 18:12	100-41-4	
Toluene	6.0J	ug/L	50.0	1.7	10		04/17/19 18:12	108-88-3	
Xylene (Total)	59.6	ug/L	30.0	15.0	10		04/17/19 18:12	1330-20-7	
m&p-Xylene	14.5J	ug/L	20.0	4.7	10		04/17/19 18:12	179601-23-1	
o-Xylene	45.1	ug/L	10.0	2.6	10		04/17/19 18:12	95-47-6	
Surrogates									
Dibromofluoromethane (S)	94	%	70-130		10		04/17/19 18:12	1868-53-7	D3
Toluene-d8 (S)	100	%	70-130		10		04/17/19 18:12	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		10		04/17/19 18:12	460-00-4	

300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	<5.0	mg/L	15.0	5.0	5		04/24/19 17:27	14808-79-8	D3

310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	764	mg/L	47.0	14.1	2		04/25/19 09:29		

353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/18/19 11:51		

Sample: 041619019 **Lab ID: 40185905019** Collected: 04/16/19 12:07 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	10.4	ug/L	2.8	1.4	1		04/24/19 10:01	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<117	ug/L	500	117	2	04/18/19 07:09	04/23/19 04:14	7429-90-5	D3

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041619019 **Lab ID: 40185905019** Collected: 04/16/19 12:07 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony, Dissolved	0.87J	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 04:14	7440-36-0	D3
Copper, Dissolved	6.4J	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 04:14	7440-50-8	D3
Iron, Dissolved	<221	ug/L	737	221	2	04/18/19 07:09	04/23/19 04:14	7439-89-6	D3
Manganese, Dissolved	22.2	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 04:14	7439-96-5	
Nickel, Dissolved	2.7	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 04:14	7440-02-0	
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 04:14	7440-22-4	D3
Vanadium, Dissolved	0.81J	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 04:14	7440-62-2	D3
Zinc, Dissolved	27.5J	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 04:14	7440-66-6	D3
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	0.016J	ug/L	0.057	0.011	1	04/18/19 08:04	04/18/19 14:59	120-12-7	
Benzo(a)pyrene	0.020J	ug/L	0.058	0.012	1	04/18/19 08:04	04/18/19 14:59	50-32-8	
Benzo(b)fluoranthene	0.029J	ug/L	0.032	0.0063	1	04/18/19 08:04	04/18/19 14:59	205-99-2	
Benzo(g,h,i)perylene	0.018J	ug/L	0.037	0.0075	1	04/18/19 08:04	04/18/19 14:59	191-24-2	
Chrysene	0.027J	ug/L	0.072	0.014	1	04/18/19 08:04	04/18/19 14:59	218-01-9	
Fluoranthene	0.021J	ug/L	0.059	0.012	1	04/18/19 08:04	04/18/19 14:59	206-44-0	
Fluorene	<0.0088	ug/L	0.044	0.0088	1	04/18/19 08:04	04/18/19 14:59	86-73-7	
Naphthalene	<0.020	ug/L	0.10	0.020	1	04/18/19 08:04	04/18/19 14:59	91-20-3	
Phenanthrene	<0.015	ug/L	0.076	0.015	1	04/18/19 08:04	04/18/19 14:59	85-01-8	
Pyrene	0.020J	ug/L	0.042	0.0084	1	04/18/19 08:04	04/18/19 14:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	30-85		1	04/18/19 08:04	04/18/19 14:59	321-60-8	
Terphenyl-d14 (S)	74	%	10-120		1	04/18/19 08:04	04/18/19 14:59	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 23:56	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 23:56	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 23:56	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 23:56	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 23:56	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 23:56	95-47-6	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		04/17/19 23:56	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/17/19 23:56	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		04/17/19 23:56	460-00-4	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Sulfate	53.7	mg/L	3.0	1.0	1		04/24/19 17:41	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	281	mg/L	47.0	14.1	2		04/25/19 09:30		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	9.0	mg/L	0.25	0.095	1		04/18/19 11:51		

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041619020 **Lab ID: 40185905020** Collected: 04/16/19 12:30 Received: 04/16/19 16:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/24/19 10:26	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	140J	ug/L	500	117	2	04/18/19 07:09	04/23/19 04:21	7429-90-5	D3
Antimony, Dissolved	<0.30	ug/L	2.0	0.30	2	04/18/19 07:09	04/23/19 04:21	7440-36-0	D3
Copper, Dissolved	2.6J	ug/L	7.3	2.2	2	04/18/19 07:09	04/23/19 04:21	7440-50-8	D3
Iron, Dissolved	268J	ug/L	737	221	2	04/18/19 07:09	04/23/19 04:21	7439-89-6	D3
Manganese, Dissolved	30.6	ug/L	18.0	5.4	2	04/18/19 07:09	04/23/19 04:21	7439-96-5	
Nickel, Dissolved	1.8J	ug/L	2.7	0.80	2	04/18/19 07:09	04/23/19 04:21	7440-02-0	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	04/18/19 07:09	04/23/19 04:21	7440-22-4	D3
Vanadium, Dissolved	0.94J	ug/L	2.1	0.63	2	04/18/19 07:09	04/23/19 04:21	7440-62-2	D3
Zinc, Dissolved	15.7J	ug/L	30.7	9.2	2	04/18/19 07:09	04/23/19 04:21	7440-66-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Anthracene	0.021J	ug/L	0.052	0.010	1	04/19/19 08:22	04/19/19 20:55	120-12-7	
Benzo(a)pyrene	0.015J	ug/L	0.053	0.011	1	04/19/19 08:22	04/19/19 20:55	50-32-8	
Benzo(b)fluoranthene	0.015J	ug/L	0.029	0.0057	1	04/19/19 08:22	04/19/19 20:55	205-99-2	
Benzo(g,h,i)perylene	0.011J	ug/L	0.034	0.0068	1	04/19/19 08:22	04/19/19 20:55	191-24-2	
Chrysene	0.027J	ug/L	0.065	0.013	1	04/19/19 08:22	04/19/19 20:55	218-01-9	
Fluoranthene	0.024J	ug/L	0.053	0.011	1	04/19/19 08:22	04/19/19 20:55	206-44-0	
Fluorene	<0.0080	ug/L	0.040	0.0080	1	04/19/19 08:22	04/19/19 20:55	86-73-7	
Naphthalene	<0.018	ug/L	0.092	0.018	1	04/19/19 08:22	04/19/19 20:55	91-20-3	
Phenanthrene	0.022J	ug/L	0.069	0.014	1	04/19/19 08:22	04/19/19 20:55	85-01-8	
Pyrene	0.030J	ug/L	0.038	0.0076	1	04/19/19 08:22	04/19/19 20:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	30-85		1	04/19/19 08:22	04/19/19 20:55	321-60-8	
Terphenyl-d14 (S)	59	%	10-120		1	04/19/19 08:22	04/19/19 20:55	1718-51-0	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/18/19 00:17	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/18/19 00:17	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/18/19 00:17	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/18/19 00:17	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/18/19 00:17	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/18/19 00:17	95-47-6	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		04/18/19 00:17	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/18/19 00:17	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		04/18/19 00:17	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	893	mg/L	300	100	100		04/25/19 13:59	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	147	mg/L	23.5	7.0	1		04/25/19 09:31		

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041619020		Lab ID: 40185905020		Collected: 04/16/19 12:30	Received: 04/16/19 16:55	Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.21J	mg/L	0.25	0.095	1		04/18/19 11:52		

Sample: 041619021		Lab ID: 40185905021		Collected: 04/16/19 12:50	Received: 04/16/19 16:55	Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Anthracene	0.066J	ug/L	0.068	0.014	1	04/22/19 08:33	04/23/19 11:39	120-12-7	
Benzo(a)pyrene	0.038J	ug/L	0.068	0.014	1	04/22/19 08:33	04/23/19 11:39	50-32-8	
Benzo(b)fluoranthene	0.069	ug/L	0.037	0.0075	1	04/22/19 08:33	04/23/19 11:39	205-99-2	
Benzo(g,h,i)perylene	0.046	ug/L	0.044	0.0088	1	04/22/19 08:33	04/23/19 11:39	191-24-2	
Chrysene	0.099	ug/L	0.085	0.017	1	04/22/19 08:33	04/23/19 11:39	218-01-9	
Fluoranthene	0.11	ug/L	0.069	0.014	1	04/22/19 08:33	04/23/19 11:39	206-44-0	
Fluorene	<0.010	ug/L	0.052	0.010	1	04/22/19 08:33	04/23/19 11:39	86-73-7	
Naphthalene	<0.024	ug/L	0.12	0.024	1	04/22/19 08:33	04/23/19 11:39	91-20-3	
Phenanthrene	0.047J	ug/L	0.090	0.018	1	04/22/19 08:33	04/23/19 11:39	85-01-8	
Pyrene	0.095	ug/L	0.050	0.0099	1	04/22/19 08:33	04/23/19 11:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%	30-85		1	04/22/19 08:33	04/23/19 11:39	321-60-8	
Terphenyl-d14 (S)	72	%	10-120		1	04/22/19 08:33	04/23/19 11:39	1718-51-0	

8260 MSV UST		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 21:40	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 21:40	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 21:40	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 21:40	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 21:40	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 21:40	95-47-6	
Surrogates									
Dibromofluoromethane (S)	121	%	70-130		1		04/17/19 21:40	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		04/17/19 21:40	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		04/17/19 21:40	460-00-4	

Sample: 041619022		Lab ID: 40185905022		Collected: 04/16/19 13:10	Received: 04/16/19 16:55	Matrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 22:02	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 22:02	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 22:02	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 22:02	1330-20-7	

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ANALYTICAL RESULTS

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Sample: 041619022 Lab ID: 40185905022 Collected: 04/16/19 13:10 Received: 04/16/19 16:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 22:02	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 22:02	95-47-6	
Surrogates									
Dibromofluoromethane (S)	121	%	70-130		1		04/17/19 22:02	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/17/19 22:02	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		04/17/19 22:02	460-00-4	

Sample: 041619023 Lab ID: 40185905023 Collected: 04/16/19 00:00 Received: 04/16/19 16:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/24/19 10:33	74-82-8	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		04/17/19 20:55	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		04/17/19 20:55	100-41-4	
Toluene	<0.17	ug/L	5.0	0.17	1		04/17/19 20:55	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/17/19 20:55	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/17/19 20:55	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/17/19 20:55	95-47-6	
Surrogates									
Dibromofluoromethane (S)	119	%	70-130		1		04/17/19 20:55	1868-53-7	HS
Toluene-d8 (S)	99	%	70-130		1		04/17/19 20:55	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		04/17/19 20:55	460-00-4	

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

QC Batch: 318622 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 40185905001, 40185905002, 40185905003, 40185905004, 40185905005, 40185905006, 40185905007, 40185905008

METHOD BLANK: 1851674 Matrix: Water
Associated Lab Samples: 40185905001, 40185905002, 40185905003, 40185905004, 40185905005, 40185905006, 40185905007, 40185905008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<1.4	2.8	04/17/19 09:04	

LABORATORY CONTROL SAMPLE & LCSD: 1851675 1851676

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	28.2	28.1	99	98	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1851801 1851802

Parameter	Units	40185905004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	6.5	28.6	28.6	35.1	36.4	100	105	77-122	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

QC Batch: 319301 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 40185905009, 40185905010, 40185905011, 40185905013, 40185905014, 40185905015, 40185905016, 40185905017, 40185905018, 40185905019, 40185905020, 40185905023

METHOD BLANK: 1855319 Matrix: Water
Associated Lab Samples: 40185905009, 40185905010, 40185905011, 40185905013, 40185905014, 40185905015, 40185905016, 40185905017, 40185905018, 40185905019, 40185905020, 40185905023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<1.4	2.8	04/24/19 08:16	

LABORATORY CONTROL SAMPLE & LCSD: 1855320 1855321

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	27.6	28.8	97	101	80-120	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1855589 1855590

Parameter	Units	40185905009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	<1.4	28.6	28.6	25.5	27.5	89	96	77-122	7	20	

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

QC Batch: 318670 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 40185905001, 40185905002, 40185905003, 40185905004, 40185905005, 40185905006, 40185905007, 40185905008, 40185905009, 40185905010, 40185905011, 40185905013, 40185905014, 40185905015, 40185905016, 40185905017, 40185905018, 40185905019, 40185905020

METHOD BLANK: 1851857 Matrix: Water
Associated Lab Samples: 40185905001, 40185905002, 40185905003, 40185905004, 40185905005, 40185905006, 40185905007, 40185905008, 40185905009, 40185905010, 40185905011, 40185905013, 40185905014, 40185905015, 40185905016, 40185905017, 40185905018, 40185905019, 40185905020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<58.7	250	04/23/19 01:08	
Antimony, Dissolved	ug/L	<0.15	1.0	04/23/19 01:08	
Copper, Dissolved	ug/L	<1.1	3.6	04/23/19 01:08	
Iron, Dissolved	ug/L	<111	368	04/23/19 01:08	
Manganese, Dissolved	ug/L	<2.7	9.0	04/23/19 01:08	
Nickel, Dissolved	ug/L	<0.40	1.3	04/23/19 01:08	
Silver, Dissolved	ug/L	<0.10	0.50	04/23/19 01:08	
Vanadium, Dissolved	ug/L	<0.32	1.0	04/23/19 01:08	
Zinc, Dissolved	ug/L	<4.6	15.3	04/23/19 01:08	

LABORATORY CONTROL SAMPLE: 1851858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	5020	100	80-120	
Antimony, Dissolved	ug/L	500	499	100	80-120	
Copper, Dissolved	ug/L	500	474	95	80-120	
Iron, Dissolved	ug/L	5000	4920	98	80-120	
Manganese, Dissolved	ug/L	500	463	93	80-120	
Nickel, Dissolved	ug/L	500	475	95	80-120	
Silver, Dissolved	ug/L	250	246	99	80-120	
Vanadium, Dissolved	ug/L	500	470	94	80-120	
Zinc, Dissolved	ug/L	500	480	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1851859 1851860

Parameter	Units	40185905004 Result	MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			MS Spike Conc.	MSD Spike Conc.								
Aluminum, Dissolved	ug/L	<117	5000	5000	5070	5070	101	101	75-125	0	20	
Antimony, Dissolved	ug/L	1.4J	500	500	518	527	103	105	75-125	2	20	
Copper, Dissolved	ug/L	13.7	500	500	482	492	94	96	75-125	2	20	
Iron, Dissolved	ug/L	<221	5000	5000	5040	5160	100	102	75-125	2	20	
Manganese, Dissolved	ug/L	347	500	500	818	828	94	96	75-125	1	20	
Nickel, Dissolved	ug/L	2.2J	500	500	475	488	95	97	75-125	3	20	
Silver, Dissolved	ug/L	<0.20	250	250	247	252	99	101	75-125	2	20	
Vanadium, Dissolved	ug/L	1.7J	500	500	484	494	96	99	75-125	2	20	

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1851859		1851860		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40185905004 Result	MS Spike Conc.	MS Result	MSD Result										
Zinc, Dissolved	ug/L	15.3J	500	500	488	503	95	98	75-125	3	20				

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

QC Batch: 318624 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40185905021, 40185905022, 40185905023

METHOD BLANK: 1851679 Matrix: Water
Associated Lab Samples: 40185905021, 40185905022, 40185905023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.25	1.0	04/17/19 17:32	
Ethylbenzene	ug/L	<0.22	1.0	04/17/19 17:32	
m&p-Xylene	ug/L	<0.47	2.0	04/17/19 17:32	
o-Xylene	ug/L	<0.26	1.0	04/17/19 17:32	
Toluene	ug/L	<0.17	5.0	04/17/19 17:32	
Xylene (Total)	ug/L	<1.5	3.0	04/17/19 17:32	
4-Bromofluorobenzene (S)	%	91	70-130	04/17/19 17:32	
Dibromofluoromethane (S)	%	110	70-130	04/17/19 17:32	
Toluene-d8 (S)	%	98	70-130	04/17/19 17:32	

LABORATORY CONTROL SAMPLE: 1851680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	58.7	117	70-130	
Ethylbenzene	ug/L	50	53.9	108	80-124	
m&p-Xylene	ug/L	100	111	111	70-130	
o-Xylene	ug/L	50	53.6	107	70-130	
Toluene	ug/L	50	54.7	109	80-126	
Xylene (Total)	ug/L	150	164	110	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			115	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1851703 1851704

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40185869001 Result	Spike Conc.	Spike Conc.	Result						
Benzene	ug/L	<0.00025 mg/L	50	50	55.2	57.7	110	115	70-130	4	20
Ethylbenzene	ug/L	<0.00022 mg/L	50	50	52.6	51.8	105	104	80-125	2	20
m&p-Xylene	ug/L	<0.00047 mg/L	100	100	106	108	106	108	70-130	2	20
o-Xylene	ug/L	<0.00026 mg/L	50	50	53.2	53.1	106	106	70-130	0	20
Toluene	ug/L	<0.00017 mg/L	50	50	52.6	52.6	105	105	80-131	0	20
Xylene (Total)	ug/L	<0.0015 mg/L	150	150	159	161	106	108	70-130	1	20
4-Bromofluorobenzene (S)	%						96	96	70-130		

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1851703		1851704		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40185869001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result					
Dibromofluoromethane (S)	%					111	116	70-130		
Toluene-d8 (S)	%					100	99	70-130		

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

QC Batch: 318626 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40185905001, 40185905002, 40185905003, 40185905004, 40185905005, 40185905006, 40185905007, 40185905008, 40185905009, 40185905010, 40185905011, 40185905012, 40185905013, 40185905014, 40185905015, 40185905016, 40185905017, 40185905018, 40185905019, 40185905020

METHOD BLANK: 1851683 Matrix: Water
Associated Lab Samples: 40185905001, 40185905002, 40185905003, 40185905004, 40185905005, 40185905006, 40185905007, 40185905008, 40185905009, 40185905010, 40185905011, 40185905012, 40185905013, 40185905014, 40185905015, 40185905016, 40185905017, 40185905018, 40185905019, 40185905020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.25	1.0	04/17/19 16:03	
Ethylbenzene	ug/L	<0.22	1.0	04/17/19 16:03	
m&p-Xylene	ug/L	<0.47	2.0	04/17/19 16:03	
o-Xylene	ug/L	<0.26	1.0	04/17/19 16:03	
Toluene	ug/L	<0.17	5.0	04/17/19 16:03	
Xylene (Total)	ug/L	<1.5	3.0	04/17/19 16:03	
4-Bromofluorobenzene (S)	%	89	70-130	04/17/19 16:03	
Dibromofluoromethane (S)	%	96	70-130	04/17/19 16:03	
Toluene-d8 (S)	%	98	70-130	04/17/19 16:03	

LABORATORY CONTROL SAMPLE: 1851684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	50.7	101	70-130	
Ethylbenzene	ug/L	50	55.5	111	80-124	
m&p-Xylene	ug/L	100	113	113	70-130	
o-Xylene	ug/L	50	55.8	112	70-130	
Toluene	ug/L	50	53.3	107	80-126	
Xylene (Total)	ug/L	150	169	112	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1851685 1851686

Parameter	Units	40185905004		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
Benzene	ug/L	<0.25	50	50	51.8	50.1	104	100	70-130	3	20		
Ethylbenzene	ug/L	<0.22	50	50	57.6	56.7	115	113	80-125	2	20		
m&p-Xylene	ug/L	<0.47	100	100	116	115	116	115	70-130	1	20		
o-Xylene	ug/L	<0.26	50	50	57.8	57.5	116	115	70-130	0	20		
Toluene	ug/L	<0.17	50	50	54.7	53.5	109	107	80-131	2	20		
Xylene (Total)	ug/L	<1.5	150	150	174	172	116	115	70-130	1	20		
4-Bromofluorobenzene (S)	%						98	98	70-130				
Dibromofluoromethane (S)	%						98	96	70-130				

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1851685		1851686		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40185905004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Toluene-d8 (S)	%					98	97	70-130			

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

QC Batch: 318761 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40185905001, 40185905002, 40185905003, 40185905004, 40185905005, 40185905006, 40185905007, 40185905008, 40185905009, 40185905010, 40185905011, 40185905013, 40185905014, 40185905015, 40185905016, 40185905017, 40185905018, 40185905019

METHOD BLANK: 1852404 Matrix: Water
Associated Lab Samples: 40185905001, 40185905002, 40185905003, 40185905004, 40185905005, 40185905006, 40185905007, 40185905008, 40185905009, 40185905010, 40185905011, 40185905013, 40185905014, 40185905015, 40185905016, 40185905017, 40185905018, 40185905019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Anthracene	ug/L	<0.010	0.052	04/18/19 10:26	
Benzo(a)pyrene	ug/L	<0.011	0.053	04/18/19 10:26	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	04/18/19 10:26	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	04/18/19 10:26	
Chrysene	ug/L	<0.013	0.065	04/18/19 10:26	
Fluoranthene	ug/L	<0.011	0.053	04/18/19 10:26	
Fluorene	ug/L	<0.0080	0.040	04/18/19 10:26	
Naphthalene	ug/L	<0.018	0.092	04/18/19 10:26	
Phenanthrene	ug/L	<0.014	0.069	04/18/19 10:26	
Pyrene	ug/L	<0.0076	0.038	04/18/19 10:26	
2-Fluorobiphenyl (S)	%	64	30-85	04/18/19 10:26	
Terphenyl-d14 (S)	%	93	10-120	04/18/19 10:26	

LABORATORY CONTROL SAMPLE: 1852405

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Anthracene	ug/L	2	1.9	95	52-105	
Benzo(a)pyrene	ug/L	2	1.8	88	57-117	
Benzo(b)fluoranthene	ug/L	2	1.7	86	54-117	
Benzo(g,h,i)perylene	ug/L	2	1.1	53	32-82	
Chrysene	ug/L	2	2.4	118	63-122	
Fluoranthene	ug/L	2	1.9	96	52-112	
Fluorene	ug/L	2	1.7	87	46-116	
Naphthalene	ug/L	2	1.5	73	37-84	
Phenanthrene	ug/L	2	1.5	76	50-104	
Pyrene	ug/L	2	1.8	92	57-123	
2-Fluorobiphenyl (S)	%			69	30-85	
Terphenyl-d14 (S)	%			100	10-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1852406 1852407

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Anthracene	ug/L	0.028J	2.3	2.2	1.9	1.4	82	64	27-107	28	34
Benzo(a)pyrene	ug/L	<0.012	2.3	2.2	1.3	1.1	58	52	10-117	15	50

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1852406		1852407		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40185905004 Result	MS Spike Conc.	MSD Spike Conc.									
Benzo(b)fluoranthene	ug/L	<0.0068	2.3	2.2	1.4	1.3	61	58	10-121	10	49		
Benzo(g,h,i)perylene	ug/L	<0.0080	2.3	2.2	0.60	0.53	26	24	10-82	12	50		
Chrysene	ug/L	<0.015	2.3	2.2	2.4	2.1	103	97	17-122	11	36		
Fluoranthene	ug/L	<0.013	2.3	2.2	1.8	1.7	80	76	27-112	9	42		
Fluorene	ug/L	<0.0094	2.3	2.2	1.8	1.5	77	69	38-116	15	29		
Naphthalene	ug/L	<0.022	2.3	2.2	1.7	1.4	73	64	35-85	17	28		
Phenanthrene	ug/L	<0.016	2.3	2.2	1.6	1.4	69	62	31-106	15	42		
Pyrene	ug/L	<0.0090	2.3	2.2	2.0	1.7	85	77	30-123	15	31		
2-Fluorobiphenyl (S)	%						68	60	30-85				
Terphenyl-d14 (S)	%						87	80	10-120				

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

QC Batch: 318893 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40185905020

METHOD BLANK: 1853146 Matrix: Water
Associated Lab Samples: 40185905020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Anthracene	ug/L	<0.010	0.052	04/19/19 15:04	
Benzo(a)pyrene	ug/L	<0.011	0.053	04/19/19 15:04	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	04/19/19 15:04	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	04/19/19 15:04	
Chrysene	ug/L	<0.013	0.065	04/19/19 15:04	
Fluoranthene	ug/L	<0.011	0.053	04/19/19 15:04	
Fluorene	ug/L	<0.0080	0.040	04/19/19 15:04	
Naphthalene	ug/L	<0.018	0.092	04/19/19 15:04	
Phenanthrene	ug/L	<0.014	0.069	04/19/19 15:04	
Pyrene	ug/L	<0.0076	0.038	04/19/19 15:04	
2-Fluorobiphenyl (S)	%	69	30-85	04/19/19 15:04	
Terphenyl-d14 (S)	%	109	10-120	04/19/19 15:04	

LABORATORY CONTROL SAMPLE & LCSD: 1853147

Parameter	Units	1853148								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Anthracene	ug/L	2	1.9	1.5	93	73	52-105	24	36	
Benzo(a)pyrene	ug/L	2	1.9	1.4	94	69	57-117	31	39	
Benzo(b)fluoranthene	ug/L	2	1.9	1.3	93	67	54-117	33	41	
Benzo(g,h,i)perylene	ug/L	2	1.3	0.93	64	46	32-82	31	44	
Chrysene	ug/L	2	2.3	1.6	117	81	63-122	36	38	
Fluoranthene	ug/L	2	1.9	1.4	96	71	52-112	30	35	
Fluorene	ug/L	2	1.8	1.4	91	69	46-116	27	33	
Naphthalene	ug/L	2	1.4	1.2	72	62	37-84	15	29	
Phenanthrene	ug/L	2	1.7	1.3	84	63	50-104	29	36	
Pyrene	ug/L	2	2.1	1.6	107	78	57-123	32	36	
2-Fluorobiphenyl (S)	%				73	57	30-85			
Terphenyl-d14 (S)	%				117	81	10-120			

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

QC Batch: 319032 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40185905021

METHOD BLANK: 1854277 Matrix: Water
Associated Lab Samples: 40185905021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Anthracene	ug/L	<0.010	0.052	04/22/19 11:40	
Benzo(a)pyrene	ug/L	<0.011	0.053	04/22/19 11:40	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	04/22/19 11:40	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	04/22/19 11:40	
Chrysene	ug/L	<0.013	0.065	04/22/19 11:40	
Fluoranthene	ug/L	<0.011	0.053	04/22/19 11:40	
Fluorene	ug/L	<0.0080	0.040	04/22/19 11:40	
Naphthalene	ug/L	<0.018	0.092	04/22/19 11:40	
Phenanthrene	ug/L	<0.014	0.069	04/22/19 11:40	
Pyrene	ug/L	<0.0076	0.038	04/22/19 11:40	
2-Fluorobiphenyl (S)	%	65	30-85	04/22/19 11:40	
Terphenyl-d14 (S)	%	103	10-120	04/22/19 11:40	

LABORATORY CONTROL SAMPLE: 1854278

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Anthracene	ug/L	2	1.8	88	52-105	
Benzo(a)pyrene	ug/L	2	1.7	85	57-117	
Benzo(b)fluoranthene	ug/L	2	1.6	82	54-117	
Benzo(g,h,i)perylene	ug/L	2	1.0	52	32-82	
Chrysene	ug/L	2	2.4	121	63-122	
Fluoranthene	ug/L	2	1.7	83	52-112	
Fluorene	ug/L	2	1.5	75	46-116	
Naphthalene	ug/L	2	1.2	61	37-84	
Phenanthrene	ug/L	2	1.4	69	50-104	
Pyrene	ug/L	2	2.0	98	57-123	
2-Fluorobiphenyl (S)	%			60	30-85	
Terphenyl-d14 (S)	%			105	10-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1854348 1854349

Parameter	Units	40186129009 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Anthracene	ug/L	<0.010	2	2	1.5	1.5	76	76	27-107	0	34	
Benzo(a)pyrene	ug/L	<0.011	2	2	0.97	1.0	48	50	10-117	5	50	
Benzo(b)fluoranthene	ug/L	<0.0057	2	2	0.95	1.0	48	51	10-121	7	49	
Benzo(g,h,i)perylene	ug/L	<0.0068	2	2	0.47	0.45	23	23	10-82	3	50	
Chrysene	ug/L	<0.013	2	2	1.9	1.9	93	94	17-122	1	36	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP

Pace Project No.: 40185905

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1854348		1854349		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40186129009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Fluoranthene	ug/L	<0.011	2	2	1.4	1.4	70	68	27-112	3	42		
Fluorene	ug/L	<0.0080	2	2	1.4	1.4	71	70	38-116	1	29		
Naphthalene	ug/L	<0.018	2	2	1.3	1.3	63	63	35-85	1	28		
Phenanthrene	ug/L	<0.014	2	2	1.2	1.2	62	60	31-106	2	42		
Pyrene	ug/L	<0.0076	2	2	1.7	1.6	83	80	30-123	4	31		
2-Fluorobiphenyl (S)	%						61	58	30-85				
Terphenyl-d14 (S)	%						80	82	10-120				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

QC Batch: 318978 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40185905001

METHOD BLANK: 1853664 Matrix: Water
Associated Lab Samples: 40185905001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	04/23/19 10:30	

LABORATORY CONTROL SAMPLE: 1853665

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1853668 1853669

Parameter	Units	40186027011 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Sulfate	mg/L	133	200	200	350	352	108	109	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1854576 1854577

Parameter	Units	40185892002 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Sulfate	mg/L	<5.0	100	100	108	108	106	106	90-110	0	15	

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

QC Batch:	319140	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	40185905002, 40185905003, 40185905004, 40185905005, 40185905006, 40185905007, 40185905008, 40185905009, 40185905010, 40185905011, 40185905013, 40185905014, 40185905015, 40185905016, 40185905017, 40185905018, 40185905019, 40185905020		

METHOD BLANK:	1854582	Matrix:	Water
Associated Lab Samples:	40185905002, 40185905003, 40185905004, 40185905005, 40185905006, 40185905007, 40185905008, 40185905009, 40185905010, 40185905011, 40185905013, 40185905014, 40185905015, 40185905016, 40185905017, 40185905018, 40185905019, 40185905020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	04/24/19 11:53	

LABORATORY CONTROL SAMPLE:	1854583
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Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.7	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	1854584	1854585
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Parameter	Units	40185905004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	15.0	20	20	37.0	37.0	110	110	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	1854586	1854587
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Parameter	Units	40185906002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	3.8	20	20	26.6	27.2	114	117	90-110	2	15 M0	

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

QC Batch:	319370	Analysis Method:	EPA 310.2
QC Batch Method:	EPA 310.2	Analysis Description:	310.2 Alkalinity
Associated Lab Samples:	40185905001, 40185905002, 40185905003, 40185905004, 40185905005, 40185905006, 40185905007, 40185905008, 40185905009, 40185905010, 40185905011, 40185905013, 40185905014, 40185905015, 40185905016, 40185905017, 40185905018, 40185905019, 40185905020		

METHOD BLANK:	1855606	Matrix:	Water
Associated Lab Samples:	40185905001, 40185905002, 40185905003, 40185905004, 40185905005, 40185905006, 40185905007, 40185905008, 40185905009, 40185905010, 40185905011, 40185905013, 40185905014, 40185905015, 40185905016, 40185905017, 40185905018, 40185905019, 40185905020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	04/25/19 09:14	

LABORATORY CONTROL SAMPLE:	1855607
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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:	1855608	1855609									
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Parameter	Units	40185905004 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	298	200	200	472	484	87	93	90-110	3	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	1855610	1855611									
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Parameter	Units	40186090001 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	1150	2000	2000	2920	2860	88	86	90-110	2	20	M0

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QUALITY CONTROL DATA

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

QC Batch: 318784 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 40185905001, 40185905002, 40185905003, 40185905004, 40185905005, 40185905006, 40185905007, 40185905008, 40185905009, 40185905010, 40185905011, 40185905013, 40185905014, 40185905015, 40185905016, 40185905017, 40185905018, 40185905019, 40185905020

METHOD BLANK: 1852504 Matrix: Water
Associated Lab Samples: 40185905001, 40185905002, 40185905003, 40185905004, 40185905005, 40185905006, 40185905007, 40185905008, 40185905009, 40185905010, 40185905011, 40185905013, 40185905014, 40185905015, 40185905016, 40185905017, 40185905018, 40185905019, 40185905020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	04/18/19 11:34	

LABORATORY CONTROL SAMPLE: 1852505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1852506 1852507

Parameter	Units	40185905004		1852507		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	1.4	2.5	2.5	3.9	3.9	99	99	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1852508 1852509

Parameter	Units	40185972001		1852509		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	<0.48	12.5	12.5	12.0	12.2	95	96	90-110	1	20	

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QUALIFIERS

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: 318936

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

ANALYTE QUALIFIERS

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

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40185905001	041519001	EPA 8015B Modified	318622		
40185905002	041519002	EPA 8015B Modified	318622		
40185905003	041519003	EPA 8015B Modified	318622		
40185905004	041519004	EPA 8015B Modified	318622		
40185905005	041519005	EPA 8015B Modified	318622		
40185905006	041519006	EPA 8015B Modified	318622		
40185905007	041519007	EPA 8015B Modified	318622		
40185905008	041519008	EPA 8015B Modified	318622		
40185905009	041519009	EPA 8015B Modified	319301		
40185905010	041519010	EPA 8015B Modified	319301		
40185905011	041519011	EPA 8015B Modified	319301		
██████████	██████████	██████████	██████████		
40185905014	041619014	EPA 8015B Modified	319301		
40185905015	041619015	EPA 8015B Modified	319301		
40185905016	041619016	EPA 8015B Modified	319301		
40185905017	041619017	EPA 8015B Modified	319301		
40185905018	041619018	EPA 8015B Modified	319301		
40185905019	041619019	EPA 8015B Modified	319301		
40185905020	041619020	EPA 8015B Modified	319301		
40185905023	041619023	EPA 8015B Modified	319301		
40185905001	041519001	EPA 3010	318670	EPA 6020	318835
40185905002	041519002	EPA 3010	318670	EPA 6020	318835
40185905003	041519003	EPA 3010	318670	EPA 6020	318835
40185905004	041519004	EPA 3010	318670	EPA 6020	318835
40185905005	041519005	EPA 3010	318670	EPA 6020	318835
40185905006	041519006	EPA 3010	318670	EPA 6020	318835
40185905007	041519007	EPA 3010	318670	EPA 6020	318835
40185905008	041519008	EPA 3010	318670	EPA 6020	318835
40185905009	041519009	EPA 3010	318670	EPA 6020	318835
40185905010	041519010	EPA 3010	318670	EPA 6020	318835
40185905011	041519011	EPA 3010	318670	EPA 6020	318835
██████████	██████████	██████████	██████████	██████████	██████████
40185905014	041619014	EPA 3010	318670	EPA 6020	318835
40185905015	041619015	EPA 3010	318670	EPA 6020	318835
40185905016	041619016	EPA 3010	318670	EPA 6020	318835
40185905017	041619017	EPA 3010	318670	EPA 6020	318835
40185905018	041619018	EPA 3010	318670	EPA 6020	318835
40185905019	041619019	EPA 3010	318670	EPA 6020	318835
40185905020	041619020	EPA 3010	318670	EPA 6020	318835
40185905001	041519001	EPA 3510	318761	EPA 8270 by HVI	318798
40185905002	041519002	EPA 3510	318761	EPA 8270 by HVI	318798
40185905003	041519003	EPA 3510	318761	EPA 8270 by HVI	318798
40185905004	041519004	EPA 3510	318761	EPA 8270 by HVI	318798
40185905005	041519005	EPA 3510	318761	EPA 8270 by HVI	318798
40185905006	041519006	EPA 3510	318761	EPA 8270 by HVI	318798
40185905007	041519007	EPA 3510	318761	EPA 8270 by HVI	318798
40185905008	041519008	EPA 3510	318761	EPA 8270 by HVI	318798

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40185905009	041519009	EPA 3510	318761	EPA 8270 by HVI	318798
40185905010	041519010	EPA 3510	318761	EPA 8270 by HVI	318798
40185905011	041519011	EPA 3510	318761	EPA 8270 by HVI	318798
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
40185905014	041619014	EPA 3510	318761	EPA 8270 by HVI	318798
40185905015	041619015	EPA 3510	318761	EPA 8270 by HVI	318798
40185905016	041619016	EPA 3510	318761	EPA 8270 by HVI	318798
40185905017	041619017	EPA 3510	318761	EPA 8270 by HVI	318798
40185905018	041619018	EPA 3510	318761	EPA 8270 by HVI	318798
40185905019	041619019	EPA 3510	318761	EPA 8270 by HVI	318798
40185905020	041619020	EPA 3510	318893	EPA 8270 by HVI	318936
40185905021	041619021	EPA 3510	319032	EPA 8270 by HVI	319113
40185905001	041519001	EPA 8260	318626		
40185905002	041519002	EPA 8260	318626		
40185905003	041519003	EPA 8260	318626		
40185905004	041519004	EPA 8260	318626		
40185905005	041519005	EPA 8260	318626		
40185905006	041519006	EPA 8260	318626		
40185905007	041519007	EPA 8260	318626		
40185905008	041519008	EPA 8260	318626		
40185905009	041519009	EPA 8260	318626		
40185905010	041519010	EPA 8260	318626		
40185905011	041519011	EPA 8260	318626		
40185905012	041519012	EPA 8260	318626		
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		
40185905014	041619014	EPA 8260	318626		
40185905015	041619015	EPA 8260	318626		
40185905016	041619016	EPA 8260	318626		
40185905017	041619017	EPA 8260	318626		
40185905018	041619018	EPA 8260	318626		
40185905019	041619019	EPA 8260	318626		
40185905020	041619020	EPA 8260	318626		
40185905021	041619021	EPA 8260	318624		
40185905022	041619022	EPA 8260	318624		
40185905023	041619023	EPA 8260	318624		
40185905001	041519001	EPA 300.0	318978		
40185905002	041519002	EPA 300.0	319140		
40185905003	041519003	EPA 300.0	319140		
40185905004	041519004	EPA 300.0	319140		
40185905005	041519005	EPA 300.0	319140		
40185905006	041519006	EPA 300.0	319140		
40185905007	041519007	EPA 300.0	319140		
40185905008	041519008	EPA 300.0	319140		
40185905009	041519009	EPA 300.0	319140		
40185905010	041519010	EPA 300.0	319140		
40185905011	041519011	EPA 300.0	319140		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 67979/232 MARINETTE FORMER MGP
Pace Project No.: 40185905

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
██████████	██████████	██████████	██████████		
40185905014	041619014	EPA 300.0	319140		
40185905015	041619015	EPA 300.0	319140		
40185905016	041619016	EPA 300.0	319140		
40185905017	041619017	EPA 300.0	319140		
40185905018	041619018	EPA 300.0	319140		
40185905019	041619019	EPA 300.0	319140		
40185905020	041619020	EPA 300.0	319140		
40185905001	041519001	EPA 310.2	319370		
40185905002	041519002	EPA 310.2	319370		
40185905003	041519003	EPA 310.2	319370		
40185905004	041519004	EPA 310.2	319370		
40185905005	041519005	EPA 310.2	319370		
40185905006	041519006	EPA 310.2	319370		
40185905007	041519007	EPA 310.2	319370		
40185905008	041519008	EPA 310.2	319370		
40185905009	041519009	EPA 310.2	319370		
40185905010	041519010	EPA 310.2	319370		
40185905011	041519011	EPA 310.2	319370		
██████████	██████████	██████████	██████████		
40185905014	041619014	EPA 310.2	319370		
40185905015	041619015	EPA 310.2	319370		
40185905016	041619016	EPA 310.2	319370		
40185905017	041619017	EPA 310.2	319370		
40185905018	041619018	EPA 310.2	319370		
40185905019	041619019	EPA 310.2	319370		
40185905020	041619020	EPA 310.2	319370		
40185905001	041519001	EPA 353.2	318784		
40185905002	041519002	EPA 353.2	318784		
40185905003	041519003	EPA 353.2	318784		
40185905004	041519004	EPA 353.2	318784		
40185905005	041519005	EPA 353.2	318784		
40185905006	041519006	EPA 353.2	318784		
40185905007	041519007	EPA 353.2	318784		
40185905008	041519008	EPA 353.2	318784		
40185905009	041519009	EPA 353.2	318784		
40185905010	041519010	EPA 353.2	318784		
40185905011	041519011	EPA 353.2	318784		
██████████	██████████	██████████	██████████		
40185905014	041619014	EPA 353.2	318784		
40185905015	041619015	EPA 353.2	318784		
40185905016	041619016	EPA 353.2	318784		
40185905017	041619017	EPA 353.2	318784		
40185905018	041619018	EPA 353.2	318784		
40185905019	041619019	EPA 353.2	318784		
40185905020	041619020	EPA 353.2	318784		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



CHAIN-OF-CUSTODY / Analytical Request Document

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

COL#: G7979-0419-001
 Samples dropped at Pace 6/10/18
 5905

QC: KTS 4/16/19 26

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: O'Brien and Gere Engineers, Inc.		Report To: GDSdata@OBG.com		Attention: Accounts Payable	
Address: 234 W. Florida St Milwaukee, WI		Copy To: Marcus Byker Alex Bartelme		Company Name: WEC Business Services, LLC	
Email To: GDSdata@OBG.com		Purchase Order No.: 3400010643 / 470004930		Address: PO Box 19800, Green Bay, WI 54307	
Phone: 773-796-4359 Fax:		Project Name: Marinette Former MGP		Pace Quote Reference: 3400010643	
Requested Due Date/TAT: standard		Project Number: 67979/232		Pace Project Manager:	
				Pace Profile #:	
				REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
				Site Location	
				STATE: WI	

Page: 1 of 2

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	BTEX 8260B	Methane 8015B	PAH 8270-SIM	Metals 6020A*	Alkalinity 310.2	Sulfate 300.0	Nitrate & Nitrite 353.2						
			DATE	TIME	DATE	TIME																			N	N	N	Y		
1	041519001	GW			4-15-19	1214	N	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	001			
2	041519002					1255		11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	002			
3	041519003					1333		11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	003			
4	041519004					1409		33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	004			
5	041519005					1506		11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	005			
6	041519006					1534		11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	006			
7	041519007					1635		11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	007			
8	041519008					1640		11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	008			
9	041519009					1721		11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	009			
10	041519010					1751		11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	010			
11	041519011					1832		11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	011			
12	041519012	DI				1950		5	X																	N	012			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EPA Level 2	<i>[Signature]</i>	4/16/19	1655	JAN KAP PACE	4/16/19	1655	ROD	Y	N	Y
*Dissolved Metals: Aluminum, Antimony, Copper, Iron, Manganese, Nickel, Silver, Vanadium, Zinc.										

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Alex Bartelme					
SIGNATURE of SAMPLER: <i>[Signature]</i>					
DATE Signed (MM/DD/YY): 04/15/19					

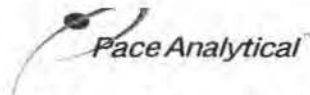
*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Preservation Receipt Form

Client Name: DB6

Project #: 46185905

Pace Lab #	Glass							Plastic						Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)									
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T								ZPLC	GN							
<u>D21</u>					<u>2</u>																																			2.5 / 5 / 10
<u>D22</u>																																					2.5 / 5 / 10			
<u>D23</u>																												<u>1</u>									2.5 / 5 / 10			
<u>D24</u>																																					2.5 / 5 / 10			
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1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)
Document No.: F-GB-C-031-Rev.07

Document Revised: 25Apr2018
Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: DBG

Project #: **WO# : 40185905**

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

Tracking #: _____

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

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

Cooler Temperature Uncorr: PAT / Corr: _____

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

Person examining contents:
Date: 4-16-19
Initials: JR

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	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:	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	8. <u>D21 - 465u is about 30ml, the other 80ml received, D20 - DP2U - 100ml 4-16-19 JK</u>
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	<u>416</u>	

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

Project Manager Review: [Signature]

Date: 4-17-19