



Wisconsin Public Service Corporation

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

[www.wisconsinpublicservice.com](http://www.wisconsinpublicservice.com)

June 26, 2017

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

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

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Dear Mr. Miller:

WEC Business Services, LLC (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant site located at 1603 Ely Street is providing results of recent environmental sampling activities that were conducted on City property. Wisconsin Administrative Code Chapter NR 716.14 requires responsible parties (WPSC in this case) to report results of environmental sampling and monitoring to the property owner, as applicable.

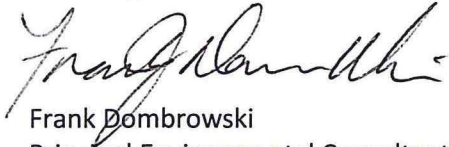
Soil, soil vapor, groundwater and sand cap sampling at the site were conducted as part of the Remedial Investigation, overseen jointly by USEPA and WDNR. Results of soil samples SB352 through SB355 and SB357 through SB370, collected in October 2014, are included in the attached summary tables and laboratory analytical reports. Soil vapor sample results for locations SG01, SG02, SG02A, SG17D, SG17SS, SG18D, SG18SS, and SG19SS, collected in April and August of 2014, are also included. In addition, groundwater samples results, collected as part of routine semi-annual monitoring from locations MW01R, MW03R, MW05, MW302-MW305, MW307R, MW308, MW310-MW313, and P302-P305 are included. Finally, sand cap sample results from the Menominee River, collected at locations A1B33, A1B35, A1E4, A1F2, and A1F3, as part of post-remedial construction monitoring, are included.

Results of the sampling are summarized in the attached summary tables and the results are compared to applicable WDNR standards and criteria. Copies of the relevant portions of the associated laboratory reports and a figure showing the locations of samples collected on your property are also included. These results will be also presented in the future Feasibility Study Report for the site currently being prepared for USEPA.

Mr. Brian Miller  
Page 2  
June 26, 2017

We appreciate your ongoing assistance and cooperation in this matter. If there are any questions or if you need additional information, please contact Kristen DuFresne from the WDNR at 920-662-5443 or myself at 414-221-2156.

Sincerely,



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

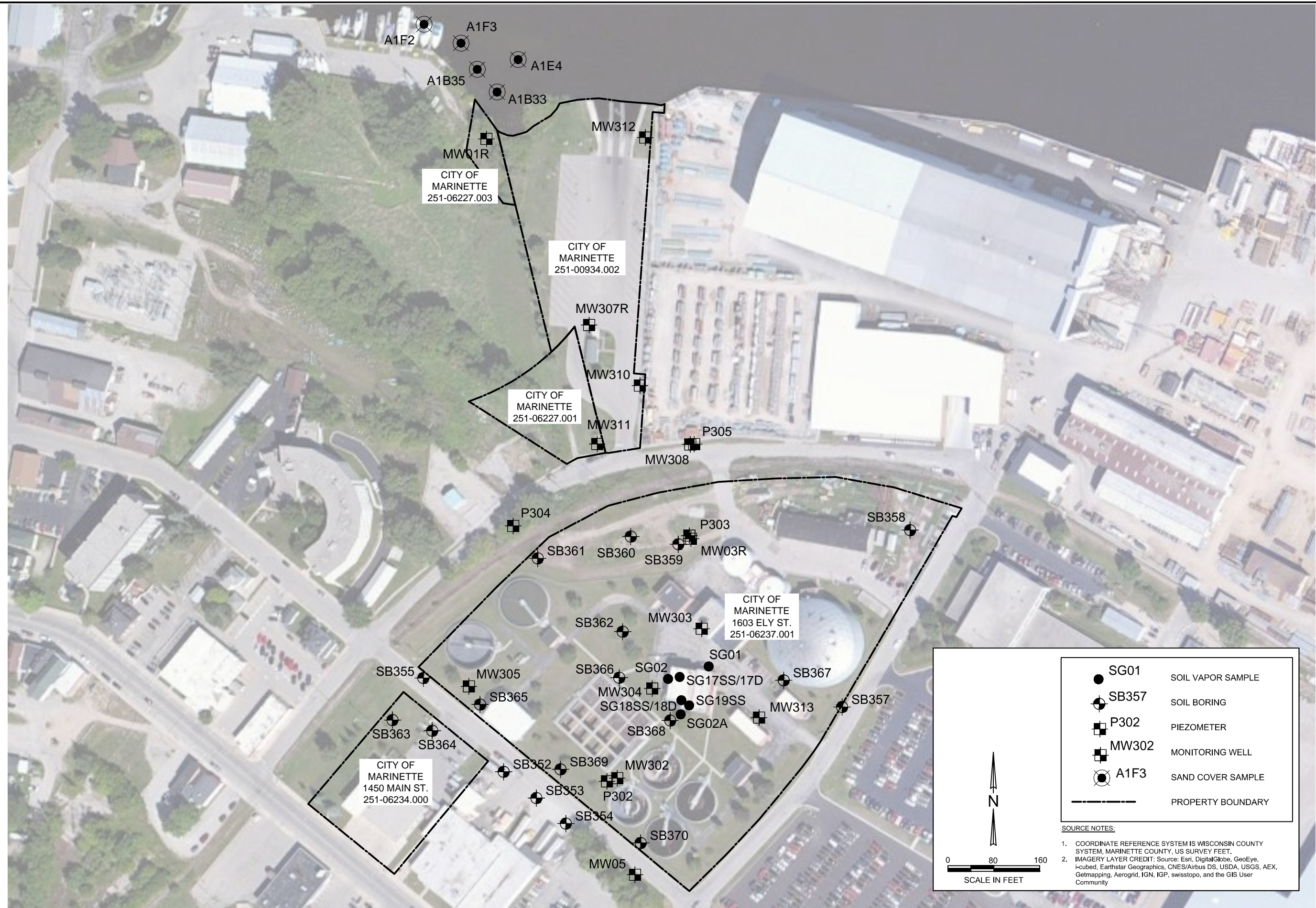
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Enc: Figure 1. City of Marinette  
Table 1. Summary of Soil Results for City of Marinette – Nov13-2016  
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Table 2: Sample Key for City of Marinette– Oct2016  
Table 1: Summary of Groundwater Results for City of Marinette– April 2017  
Table 2 : Sample Key for City of Marinette– April 2017  
Laboratory Data Reports  
4095262\_frc  
4096754\_frc  
40106030\_frc  
40130733\_frc  
40123659\_frc  
40113122\_frc  
40136123\_frc  
40105127\_frc  
40105126\_frc  
40140378\_frc  
40147697\_frc  
14040335(NRT)Rev0  
14080238(NRT)Rev0

CC: Ms. Margaret Gielniewski - USEPA  
Ms. Kristen DuFresne - WDNR

## FIGURES

Jul 18, 2016 10:11am PLOTTED BY: oconrose SAVED BY: oconrose  
 I:\ACADATA\Projects\151549 Marinette\21-0\Figure 1\_City of Marinette.dwg Layout  
 WREFS: I:\ACADATA\Projects\151549 Marinette\19-0\Reference\Bing Aerial 052616.jpg



DRAWN BY:	DMD	DATE:	05/27/16
CHECKED BY:	ANS	DATE:	07/08/16
APPROVED BY:	KRM	DATE:	07/18/16
DRAWING NO:		Fig 1_City of Marinette	
REFERENCE:		.	

**CITY OF MARINETTE**  
 RECENT SAMPLING RESULTS  
 FORMER MARINETTE MANUFACTURED GAS PLANT  
 WISCONSIN PUBLIC SERVICE CORPORATION  
 MARINETTE, WISCONSIN  
 BRRTS# 023800047



PROJECT NO.	1549/21.0
FIGURE NO.	1

- SG01 SOIL VAPOR SAMPLE
- ⊗ SB357 SOIL BORING
- ⊠ P302 PIEZOMETER
- ⊠ MW302 MONITORING WELL
- ⊗ A1F3 SAND COVER SAMPLE
- PROPERTY BOUNDARY

**SOURCE NOTES:**  
 1. COORDINATE REFERENCE SYSTEM IS WISCONSIN COUNTY SYSTEM, MARINETTE COUNTY, US SURVEY FEET.  
 2. IMAGERY LAYER CREDIT: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

## **TABLES**

**Table 1. Summary of Soil Results for City of Marinette**  
**November 2013 through 2016 Sample Results Notification**  
**Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant**  
**Marinette, Wisconsin**  
**BRRTS# 0238000047**

Field ID	Sample Location	Duplicate of	Depth (feet)	Sample Date	BTEX	BTEX	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	RNA	
					Benzene (mg/kg)	Xylenes, Total (mg/kg)	1-Methylnaphthalene (mg/kg)	2-Methylnaphthalene (mg/kg)	Benzo(a)anthracene (mg/kg)	Benzo(a)pyrene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenz(a,h)anthracene (mg/kg)	Indeno(1,2,3-cd)pyrene (mg/kg)	Naphthalene (PAH) (mg/kg)	Percent Moisture (percent)
<b>Industrial Direct Contact RCL:</b>					<b>7.41</b>	<b>260</b>	<b>53.1</b>	<b>2,200</b>	<b>2.1</b>	<b>0.211</b>	<b>2.11</b>	<b>21.1</b>	<b>211</b>	<b>0.211</b>	<b>2.11</b>	<b>26</b>	<b>NS</b>
100914106	SB352		3-5	10/09/2014	< 0.025 UW	< 0.075 UW	< 0.0085 U	< 0.0085 U	< 0.0059 U	< 0.0061 U	< 0.0085 U	< 0.0095 U	< 0.0079 U	< 0.0063 U	< 0.0065 U	< 0.0085 U	2.4
100914107	DUP	SB352	3-5	10/09/2014	< 0.025 UW	< 0.075 UW	< 0.0086 U	< 0.0086 U	< 0.0059 U	< 0.0061 U	< 0.0086 U	< 0.0095 U	< 0.0079 U	< 0.0063 U	< 0.0065 U	< 0.0086 U	2.6
100914108	SB353		3-5	10/09/2014	0.148	0.0952 J	0.496	0.838	<b>5.5</b>	<b>3.73</b>	<b>6.25</b>	5.98	9.8	<b>2.22</b>	<b>4.14</b>	1.69	11.1
100914109	SB353		5-7	10/09/2014	0.0287 J	< 0.075 UW	0.0899	0.126	1.41	<b>1.17</b>	1.37	1.3	1.59	<b>0.346</b>	0.944	0.25	3
100914110	SB354		3-5	10/09/2014	< 0.025 UW	< 0.075 UW	< 0.0172 U	< 0.0172 U	< 0.0119 U	< 0.0123 U	< 0.0172 U	< 0.019 U	< 0.0159 U	< 0.0126 U	< 0.0131 U	< 0.0172 U	3.1
100914105	SB355		2-4	10/09/2014	< 0.025 UW	< 0.075 UW	0.0754	0.0933	0.315	<b>0.457</b>	0.393	0.394	0.372	0.0985	0.409	0.109	7.1
100914111	SB357		3-5	10/09/2014	< 0.025 UW	< 0.075 UW	0.0316	0.0452	0.137	0.169	0.145	0.131	0.157	0.0303	0.0829	0.0438	12.7
101014210	SB358		0-2	10/10/2014	< 0.025 UW	< 0.075 UW	0.0243	0.033	0.227	<b>0.307</b>	0.331	0.262	0.311	0.0731	0.176	0.0334	23.6
101014211	SB359		0-1.7	10/10/2014	< 0.025 UW	< 0.075 UW	< 0.0445 U	< 0.0445 U	0.646	<b>0.756</b>	0.764	0.76	0.877	0.172	0.486	< 0.0445 U	6.4
101014212	SB360		0-2	10/10/2014	< 0.025 UW	< 0.075 UW	< 0.0453 U	< 0.0453 U	0.566	<b>0.72</b>	0.753	0.695	0.822	0.157	0.445	< 0.0453 U	8
101014214	SB361		0-2	10/10/2014	1.62	1.9	0.336 J	0.54	<b>4.93</b>	<b>6.34</b>	<b>4.7</b>	5.27	5.23	<b>1.34</b>	<b>3.87</b>	0.637	5.8
100914204	SB362		0-2	10/09/2014	< 0.025 UW	< 0.075 UW	< 0.037 U	< 0.037 U	0.603	<b>0.674</b>	0.499	0.566	0.617	0.126	0.386 R1	0.0903	9.9
101014209	SB363		0-2	10/10/2014	< 0.025 UW	< 0.075 UW	0.0184 J	0.0221 J	0.365	<b>0.401</b>	0.329	0.341	0.441	0.0806	0.216	0.0253 J	6.5
101014208	SB364		0-2	10/10/2014	< 0.025 UW	< 0.075 UW	< 0.0719 U	0.108 J	0.81	<b>1.04</b>	0.941	0.889	0.997	<b>0.242</b>	0.644	0.187	7.3
100914205	SB365		0-2	10/09/2014	< 0.025 UW	< 0.075 UW	< 0.091 U	0.0938 J	1.89	<b>2.12</b>	1.9	1.77	2.01	<b>0.468</b>	1.38	0.219	8.4
100914202	SB366		0-2	10/09/2014	0.0603 J	< 0.0789 UW	< 0.182 U	0.216 J	<b>3.68 J</b>	<b>4.79 J</b>	<b>3.74 J</b>	3.54 J	3.69 J	<b>0.891 J</b>	<b>2.74 J</b>	0.401	8.2
100914203	QA/QC	SB366	0-2	10/09/2014	0.0303 J	< 0.075 UW	< 0.366 U	< 0.366 U	<b>5.91 J</b>	<b>7.6 J</b>	<b>5.56 J</b>	6.41 J	6.2 J	<b>1.37 J</b>	<b>4.39 J</b>	0.618 J	8.8
100914200	SB367		0-2	10/09/2014	< 0.025 UW	< 0.075 UW	< 0.0367 U	0.0532 J	0.708	<b>0.942</b>	0.75	0.717	0.71	0.185	0.579	0.122	9.1
100914201	SB368		0-2	10/09/2014	< 0.025 UW	< 0.075 UW	< 0.0739 U	0.134 J	1.97	<b>2.43</b>	1.84	1.84	1.92	<b>0.429</b>	1.39	0.339	9.8
100914206	SB369		0-2	10/09/2014	0.153	0.0865 J	0.0783 J	0.115 J	1.53	<b>1.83</b>	1.52	1.49	1.56	<b>0.38</b>	1.17	0.344	9.3
100914207	SB370		0-2	10/09/2014	0.0867	< 0.075 UW	< 0.185 U	0.253 J	<b>5.85</b>	<b>6.69</b>	<b>5.04</b>	5.22	5.89	<b>1.18</b>	<b>3.86</b>	0.648	10.1

[O:ECK C:AJS 6/22/16][U:ECK 7/8/16, QA: ANS 7/11/16]

Notes:

**BOLD = result meets or exceeds Industrial Direct Contact RCL**

< = Concentration is less than reported limit

DUP = Duplicate quality control sample

QA/QC = Quality Assurance/ Quality Control Field Duplicate Sample

NS = no standard

BTEX = benzene, toluene, ethylbenzene, xylenes

PAH = polycyclic aromatic hydrocarbons

RNA = Remediation by Natural Attenuation (lab and field)

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

U = Not detected

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

mg/kg = milligrams per kilogram

DC = Direct Contact

RCL = NR720 Soil Residual Contaminant Level (WDNR) (December 2015)

WDNR = Wisconsin Department of Natural Resources

Lab comments and definitions can be found in associated laboratory and validation reports.

Result values/flags may differ from lab report values/flags due to changes applied in 3<sup>rd</sup> party validation report.

Table 2. Summary of Forensic Soil Results for City of Marinette

November 2013 through 2016 Sample Results Notification  
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant  
 Marinette, Wisconsin  
 BRRTS# 0238000047

					Forensics Analytical Method ASTM D3328-06																			
Field ID	Sample Location	Duplicate of	Depth (feet)	Sample Date	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH		
					2,6,10-trimethyldecane (mg/kg)	2,6,10-trimethylpentadecane (mg/kg)	2,6,10-trimethyltridecane (mg/kg)	C-8 (mg/kg)	C-9 (mg/kg)	C-10 (mg/kg)	C-11 (mg/kg)	C-12 (mg/kg)	C-13 (mg/kg)	C-14 (mg/kg)	C-15 (mg/kg)	C-16 (mg/kg)	C-17 (mg/kg)	C-18 (mg/kg)	C-19 (mg/kg)	C-20 (mg/kg)	C-21 (mg/kg)	C-22 (mg/kg)	C-23 (mg/kg)	C-24 (mg/kg)
<b>Industrial Direct Contact RCL:</b>					<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>
100914101	SB353		3-5	10/09/2014	2.08	0.633	12.5	< 0.45 U	< 0.45 U	26.8	5.1	0.726	< 0.45 U	1.66	2.49	2.1	5.6	4.26	1.99	0.842	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U
100914102	SB353		5-7	10/09/2014	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	0.421	0.51
100914100	SB355		2-4	10/09/2014	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U
100914103	SB357		3-5	10/09/2014	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U
100914104	DUP	SB357	3-5	10/09/2014	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U
101014214	SB361		0-2	10/10/2014	< 0.38 U	0.591	3.87	< 0.38 U	< 0.38 U	0.47	< 0.38 U	0.55	0.73	1.16	1.16	1.12	0.861	4.29	0.826	0.585	0.443	0.431	1.02	0.526

Notes:  
**BOLD = result meets or exceeds Industrial DC RCL**  
 < = Concentration is less than reported limit  
 DUP = Duplicate quality control sample  
 NS = no standard  
 Alk PAHs = Alkylated PAHs  
 BTEX = benzene, toluene, ethylbenzene, xylenes  
 PAH = polycyclic aromatic hydrocarbons  
 SVOC = Semi-Volatile Organic Compound  
 VOC = Volatile Organic Compound

B = analyte detected at a similar concentration in a blank  
 J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit  
 U = Not detected  
 Result values/flags may differ from lab report values/flags due to changes applied in 3<sup>rd</sup> party validation report.  
 Lab comments and definitions can be found in associated laboratory and validation reports.  
 mg/kg = milligrams per kilogram  
 DC = Direct Contact  
 RCL = NR720 Soil Residual Contaminant Level (WDNR) (December 2015)  
 WDNR = Wisconsin Department of Natural Resources



Table 2. Summary of Forensic Soil Results for City of Marinette

November 2013 through 2016 Sample Results Notification  
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant  
 Marinette, Wisconsin  
 BRRTS# 0238000047

					Forensics Analytical Method ASTM D3328-06																		
Field ID	Sample Location	Duplicate of	Depth (feet)	Sample Date	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	TPH, Total	
					C-25 (mg/kg)	C-26 (mg/kg)	C-27 (mg/kg)	C-28 (mg/kg)	C-29 (mg/kg)	C-30 (mg/kg)	C-31 (mg/kg)	C-32 (mg/kg)	C-33 (mg/kg)	C-34 (mg/kg)	C-35 (mg/kg)	C-36 (mg/kg)	C-37 (mg/kg)	C-38 (mg/kg)	C-39 (mg/kg)	C-40 (mg/kg)	Phytane (mg/kg)	Pristane (mg/kg)	TRPH Standard (C8-C40) (mg/kg)
<b>Industrial Direct Contact RCL:</b>					<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>
100914101	SB353		3-5	10/09/2014	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	3.63	1.13	2,710
100914102	SB353		5-7	10/09/2014	0.657	0.627	0.722	0.677	0.725	0.563	<b>0.474</b>	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	0.677	0.893	148
100914100	SB355		2-4	10/09/2014	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 40 U
100914103	SB357		3-5	10/09/2014	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 48 U
100914104	SB357	DUP	3-5	10/09/2014	< 0.44 U	< 0.44 U	0.624	< 0.44 U	0.885	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	0.562	< 0.44 U	< 0.44 U	0.628	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 44 U
101014214	SB361		0-2	10/10/2014	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	3.04	0.952	1,410

Notes:  
**BOLD = result meets or exceeds Industrial DC RCL**  
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 NS = no standard  
 Alk PAHs = Alkylated PAHs  
 BTEX = benzene, toluene, ethylbenzene, xylenes  
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 Marinette, Wisconsin  
 BRRTS# 0238000047

					Forensics Analytical Method D5739-06/8270C SIM																						
Field ID	Sample Location	Duplicate of	Depth (feet)	Sample Date	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH			
					1-Methylnaphthalene (mg/kg)	2-Methylnaphthalene (mg/kg)	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo(a)anthracene (mg/kg)	Benzo(a)pyrene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Benzo(b)thiophene (mg/kg)	Benzo(e)pyrene (mg/kg)	Benzo(ghi)perylene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenz(a,h)anthracene (mg/kg)	Dibenzothiophene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3-cd)pyrene (mg/kg)	Naphthalene (PAH) (mg/kg)	Perylene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)	Retene (mg/kg)
<b>Industrial Direct Contact RCL:</b>					<b>53.1</b>	<b>2,200</b>	<b>33,000</b>	<b>NS</b>	<b>100,000</b>	<b>2.1</b>	<b>0.211</b>	<b>2.11</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>21.1</b>	<b>211</b>	<b>0.211</b>	<b>10,200</b>	<b>22,000</b>	<b>22,000</b>	<b>2.11</b>	<b>26</b>	<b>NS</b>	<b>NS</b>	<b>16,500</b>	<b>NS</b>
100914101	SB353		3-5	10/09/2014	0.309	0.35	0.121	5.9	1.44	<b>4</b>	<b>2.51</b>	<b>4.2</b>	0.824	5.69	3.35	4.88	6.97	<b>1.32</b>	0.123	2.98	0.1	<b>2.85</b>	0.609	0.932	0.67	5.46	0.0944
100914102	SB353		5-7	10/09/2014	< 0.004 U	0.0045	< 0.004 U	0.0089	0.0046	0.0097	0.0135	0.0119	< 0.004 U	0.0122	0.0119	0.0111	0.0201	< 0.004 U	< 0.004 U	0.0198	< 0.004 U	0.0092	< 0.004 U	< 0.004 U	0.0076	0.0341	0.0076
100914100	SB355		2-4	10/09/2014	0.067	0.0914	0.006	0.116	0.106	0.313	<b>0.534</b>	0.447	< 0.004 U	0.429	0.667	0.421	0.349	0.0949	0.0137	0.526	0.0082	0.548	0.0818	0.176	0.215	0.58	0.0144
100914103	SB357		3-5	10/09/2014	0.0379	0.0534	0.0086	0.0949	0.0672	0.138	0.205	0.154	< 0.0048 U	0.169	0.168	0.152	0.164	0.0383	0.0097	0.219	0.0101	0.136	0.0456	0.0671	0.0852	0.23	0.0263
100914104	SB357	DUP	3-5	10/09/2014	0.0383	0.0548	0.008	0.0837	0.0621	0.123	0.172	0.13	< 0.0044 U	0.149	0.145	0.132	0.148	0.0314	0.0094	0.21	0.0106	0.111	0.046	0.0648	0.0858	0.222	0.0298
101014214	SB361		0-2	10/10/2014	0.48	0.693	0.0525	2.04	1.73	<b>3.39</b>	<b>5.25</b>	<b>3.8</b>	0.0388	3.64	4.11	3.86	3.83	<b>0.938</b>	0.15	5.77	0.176	<b>3.35</b>	1.38	1.62	2.29	5.98	0.116

Notes:  
**BOLD = result meets or exceeds Industrial DC RCL**  
 < = Concentration is less than reported limit  
 DUP = Duplicate quality control sample  
 NS = no standard  
 Alk PAHs = Alkylated PAHs  
 BTEX = benzene, toluene, ethylbenzene, xylenes  
 PAH = polycyclic aromatic hydrocarbons  
 SVOC = Semi-Volatile Organic Compound  
 VOC = Volatile Organic Compound

B = analyte detected at a similar concentration in a blank  
 J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit  
 U = Not detected  
 Result values/flags may differ from lab report values/flags due to changes applied in 3<sup>rd</sup> party validation report.  
 Lab comments and definitions can be found in associated laboratory and validation reports.  
 mg/kg = milligrams per kilogram  
 DC = Direct Contact  
 RCL = NR720 Soil Residual Contaminant Level (WDNR) (December 2015)  
 WDNR = Wisconsin Department of Natural Resources



Table 2. Summary of Forensic Soil Results for City of Marinette

November 2013 through 2016 Sample Results Notification  
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant  
 Marinette, Wisconsin  
 BRRTS# 0238000047

					Forensics Analytical Method D5739-06/8270C SIM																			
Field ID	Sample Location	Duplicate of	Depth (feet)	Sample Date	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH		
					Benzo(b)fluorene (mg/kg)	Benzo(b)naphtho(2,1-d)thiophene (mg/kg)	Benzo(c)fluorene (mg/kg)	C1-Benzene (mg/kg)	C2-Benzene (mg/kg)	C3-Benzene (mg/kg)	C4-Benzene (mg/kg)	C5-Benzene (mg/kg)	C1-Benzo(a)anthracene/Chrysenes (mg/kg)	C2-Benzo(a)anthracenes/Chrysenes (mg/kg)	C3-Benzo(a)anthracenes/Chrysenes (mg/kg)	C4-Benzo(a)anthracenes/Chrysenes (mg/kg)	C1-Dibenzothiophene (mg/kg)	C2-Dibenzothiophene (mg/kg)	C3-Dibenzothiophene (mg/kg)	C4-Dibenzothiophene (mg/kg)	C1-Fluoranthenes/Pyrenes (mg/kg)	C2-Fluoranthenes/Pyrenes (mg/kg)	C3-Fluoranthene/Pyrenes (mg/kg)	
<b>Industrial Direct Contact RCL:</b>					<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>
100914101	SB353		3-5	10/09/2014	0.149	1.13	0.164	1.16	2.17	1.92	1.51	1.63	8.21	2.97	0.877	0.395	0.537	1.89	1.41	0.488	10.3	6.29	3.07	
100914102	SB353		5-7	10/09/2014	< 0.004 U	< 0.004 U	< 0.004 U	0.0056 B	0.0051	0.0054	< 0.004 U	< 0.004 U	0.0146	0.0101	0.0071	< 0.004 U	0.0113	0.0247	0.0698	0.0504	0.0676	0.0632	0.0355	
100914100	SB355		2-4	10/09/2014	0.0086	0.0479	0.0058	0.108	0.0925	0.0628	0.0316	0.0287	0.153	0.0728	0.0418	0.0231	0.023	0.0273	0.0151	0.0081	0.215	0.147	0.0655	
100914103	SB357		3-5	10/09/2014	0.0156	0.0223	0.0057	0.0246 B	0.0457	0.0519	0.0485	0.0425	0.111	0.0887	0.0962	0.0522 J	0.0243	0.0403	0.0431	0.0381	0.203	0.188	0.147	
100914104	SB357	DUP	3-5	10/09/2014	0.0144	0.0207	0.0061	0.0268 B	0.0522	0.0561	0.052	0.0469	0.103	0.0972	0.124	0.0707 J	0.0252	0.0428	0.0472	0.0419	0.199	0.196	0.159	
101014214	SB361		0-2	10/10/2014	0.238	0.7	0.135	1.45	1.15	0.533	0.3	0.267	2.08	0.992	0.602	0.3	0.359	0.512	0.324	0.148	3.36	2.02	1.04	

Notes:  
**BOLD = result meets or exceeds Industrial DC RCL**  
 < = Concentration is less than reported limit  
 DUP = Duplicate quality control sample  
 NS = no standard  
 Alk PAHs = Alkylated PAHs  
 BTEX = benzene, toluene, ethylbenzene, xylenes  
 PAH = polycyclic aromatic hydrocarbons  
 SVOC = Semi-Volatile Organic Compound  
 VOC = Volatile Organic Compound

B = analyte detected at a similar concentration in a blank  
 J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit  
 U = Not detected  
 Result values/flags may differ from lab report values/flags due to changes applied in 3<sup>rd</sup> party validation report.  
 Lab comments and definitions can be found in associated laboratory and validation reports.  
 mg/kg = milligrams per kilogram  
 DC = Direct Contact  
 RCL = NR720 Soil Residual Contaminant Level (WDNR) (December 2015)  
 WDNR = Wisconsin Department of Natural Resources



**Table 2. Summary of Forensic Soil Results for City of Marinette**  
**November 2013 through 2016 Sample Results Notification**  
**Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant**  
**Marinette, Wisconsin**  
**BRRTS# 0238000047**

					Forensics Analytical Method D5739-06/8270C SIM																	
Field ID	Sample Location	Duplicate of	Depth (feet)	Sample Date	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	Alk PAH	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC
					C1-Fluorenes (mg/kg)	C2-Fluorenes (mg/kg)	C3-Fluorenes (mg/kg)	C1-Naphthalenes (mg/kg)	C2-Naphthalenes (mg/kg)	C3-Naphthalenes (mg/kg)	C4-Naphthalenes (mg/kg)	C1-Phenanthrenes/Anthracenes (mg/kg)	C2-Phenanthrenes/Anthracenes (mg/kg)	C3-Phenanthrenes/Anthracenes (mg/kg)	C4-Phenanthrenes/Anthracenes (mg/kg)	1-Methylpyrene (mg/kg)	2-Methylpyrene (mg/kg)	4-Methylpyrene (mg/kg)	Biphenyl (mg/kg)	Coronene (mg/kg)	Dibenzofuran (mg/kg)	
<b>Industrial Direct Contact RCL:</b>					<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>310</b>	<b>NS</b>	<b>853</b>
100914101	SB353		3-5	10/09/2014	1.11	1.25	1.13	0.402	1.14	1.06	0.966	4.31	6.24	2.61	0.846	1.37	1.11	2.91	< 0.09 U	0.729	0.157	
100914102	SB353		5-7	10/09/2014	0.0115	0.0453	0.0765	0.0044	0.0096 B	0.0297	0.125	0.0177	0.0626	0.13	0.0804	0.0081	0.0149	0.0297	< 0.004 U	< 0.004 U	< 0.004 U	
100914100	SB355		2-4	10/09/2014	0.0116	0.0223	0.0285	0.0955	0.0862	0.059	0.0346	0.184	0.113	0.0518	0.021	0.025	0.0329	0.0375	0.0082	0.255	0.0227	
100914103	SB357		3-5	10/09/2014	0.0182	0.0333	0.0318	0.0552	0.0702	0.0646	0.0482	0.112	0.0971	0.0665	0.0556	0.0233	0.0289	0.0417	0.006	0.0454	0.0142	
100914104	SB357	DUP	3-5	10/09/2014	0.0196	0.0369	0.0337	0.0561	0.0704	0.0656	0.0488	0.107	0.0924	0.0652	0.0573	0.0235	0.0281	0.0426	0.0066	0.0394	0.0142	
101014214	SB361		0-2	10/10/2014	0.247	0.399	0.392	0.709	0.974	0.806	0.469	2.29	1.66	0.719	0.321	0.329	0.453	0.477	0.0974	1.07	0.27	

Notes:  
**BOLD = result meets or exceeds Industrial DC RCL**  
 < = Concentration is less than reported limit  
 DUP = Duplicate quality control sample  
 NS = no standard  
 Alk PAHs = Alkylated PAHs  
 BTEX = benzene, toluene, ethylbenzene, xylenes  
 PAH = polycyclic aromatic hydrocarbons  
 SVOC = Semi-Volatile Organic Compound  
 VOC = Volatile Organic Compound

B = analyte detected at a similar concentration in a blank  
 J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit  
 U = Not detected  
 Result values/flags may differ from lab report values/flags due to changes applied in 3<sup>rd</sup> party validation report.  
 Lab comments and definitions can be found in associated laboratory and validation reports.  
 mg/kg = milligrams per kilogram  
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 RCL = NR720 Soil Residual Contaminant Level (WDNR) (December 2015)  
 WDNR = Wisconsin Department of Natural Resources

Table 2. Summary of Forensic Soil Results for City of Marinette

November 2013 through 2016 Sample Results Notification  
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant  
 Marinette, Wisconsin  
 BRRTS# 0238000047

					Forensics Analytical Method D5739-06/8270C SIM																	
Field ID	Sample Location	Duplicate of	Depth (feet)	Sample Date	BTEX	BTEX	BTEX	BTEX	BTEX	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC		
					Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Xylenes, m + p (mg/kg)	Xylene, o (mg/kg)	1,2,3-Trimethylbenzene (mg/kg)	1,2,4-Trimethylbenzene (mg/kg)	1,3,5-Trimethylbenzene (mg/kg)	cis-Decalin (mg/kg)	Isopropylbenzene (mg/kg)	n-Butylbenzene (mg/kg)	n-Propylbenzene (mg/kg)	p-Isopropyltoluene (mg/kg)	sec-Butylbenzene (mg/kg)	Styrene (mg/kg)	tert-Butylbenzene (mg/kg)	trans-Decalin (mg/kg)	
<b>Industrial Direct Contact RCL:</b>					<b>7.41</b>	<b>37</b>	<b>818</b>	<b>NS</b>	<b>434</b>	<b>293</b>	<b>219</b>	<b>182</b>	<b>NS</b>	<b>268</b>	<b>108</b>	<b>264</b>	<b>162</b>	<b>145</b>	<b>867</b>	<b>183</b>	<b>NS</b>	
100914101	SB353		3-5	10/09/2014	1.04	1.76	1.52	0.593	0.275	< 0.09 U	0.133	0.0977	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U	83.8	< 0.09 U	< 0.09 U
100914102	SB353		5-7	10/09/2014	0.0148 J	< 0.004 U	0.0071 B	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	0.0067 B	< 0.004 U	< 0.004 U
100914100	SB355		2-4	10/09/2014	0.0548 J	0.0245	0.136	0.0755	0.0458	0.0115	0.0311	0.0079	< 0.004 U	0.0067	< 0.004 U	0.0087	< 0.004 U	< 0.004 U	0.312	< 0.004 U	< 0.004 U	< 0.004 U
100914103	SB357		3-5	10/09/2014	0.0215 J	0.0123	0.0301 B	0.0354	0.0186	0.009	0.0183	0.0066	< 0.0048 U	< 0.0048 U	0.0061	0.0053	0.0076	< 0.0048 U	0.18	< 0.0048 U	< 0.0048 U	< 0.0048 U
100914104	SB357	DUP	3-5	10/09/2014	0.0232 J	0.0128	0.0339 B	0.0385	0.0193	0.0091	0.0196	0.0063	< 0.0044 U	0.0049	0.0067	0.0061	0.0069	< 0.0044 U	0.14	< 0.0044 U	< 0.0044 U	< 0.0044 U
101014214	SB361		0-2	10/10/2014	0.874	0.128	1.84	1.15	0.575	0.126	0.292	0.149	< 0.038 U	< 0.038 U	< 0.038 U	0.0406	< 0.038 U	< 0.038 U	0.407	< 0.038 U	< 0.038 U	< 0.038 U

[O:ECK C:AJS 6/22/16][U:ECK 7/8/16, QA: 7/11/16]

Notes:

**BOLD = result meets or exceeds Industrial DC RCL**

< = Concentration is less than reported limit

DUP = Duplicate quality control sample

NS = no standard

Alk PAHs = Alkylated PAHs

BTEX = benzene, toluene, ethylbenzene, xylenes

PAH = polycyclic aromatic hydrocarbons

SVOC = Semi-Volatile Organic Compound

VOC = Volatile Organic Compound

B = analyte detected at a similar concentration in a blank

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

U = Not detected

Result values/flags may differ from lab report values/flags due to changes applied in 3<sup>rd</sup> party validation report.

Lab comments and definitions can be found in associated laboratory and validation reports.

mg/kg = milligrams per kilogram

DC = Direct Contact

RCL = NR720 Soil Residual Contaminant Level (WDNR) (December 2015)

WDNR = Wisconsin Department of Natural Resources

**Table 3. Summary of Soil Vapor Results for City of Marinette**

**November 2013 through 2016 Sample Results Notification**  
**Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant**  
**Marinette, Wisconsin**  
**BRRTS# 0238000047**

	Sample Location	Depth (feet bgs)	Sample Date	1,2,4-Trimethylbenzene (ug/m <sup>3</sup> )	Benzene (ug/m <sup>3</sup> )	Ethylbenzene (ug/m <sup>3</sup> )	Naphthalene (ug/m <sup>3</sup> )	Toluene (ug/m <sup>3</sup> )	Xylenes, Total (ug/m <sup>3</sup> )	Carbon Dioxide (mol %)	Methane (mol %)	Oxygen (mol %)
<b>Small Commercial Subslab and Shallow Soil Vapor VRSL:</b>				<b>1,000</b>	<b>530</b>	<b>1,600</b>	<b>120</b>	<b>730,000</b>	<b>15,000</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>
040314001	SG01	3.5-4	04/03/2014	19	< 1 U	1.5 J	0.62	9	8.8	4.13	< 0.1 U	11
040314002	SG01 DUP01	3.5-4	04/03/2014	17	< 1 U	1.5 J	< 0.44 U	8.7	8.2	4.08	< 0.1 U	10.9
080514001	SG01	3.5-4	08/05/2014	< 1.8 U	< 1.1 U	< 1.6 U	< 0.47 U	< 1.4 U	< 4.7 U	12.5	< 0.1 U	6.27
040314003	SG02	4-4.5	04/03/2014	20	< 1 U	1.6 J	0.44	7.1	8.5	5.91	< 0.1 U	7.93
080414002	SG02	4-4.5	08/04/2014	< 1.7 U	< 1.1 U	< 1.5 U	0.45	1.4	8.5	10.6	< 0.1 U	6.09
040314004	SG02A	3-3.5	04/03/2014	< 1.8 U	< 1.1 U	< 1.6 U	1.4	< 1.5 U	< 4.7 U	0.5	< 0.1 U	16.5
080514002	SG02A	3-3.5	08/05/2014	< 2 U	< 1.3 U	< 1.8 U	< 0.53 U	2.6	< 5.3 U	1	< 0.1 U	16.4
080514003	SG02A DUP01	3-3.5	08/05/2014	< 2 U	< 1.3 U	< 1.8 U	< 0.54 U	2.7	< 5.4 U	1.01	< 0.1 U	16.4
040314005	SG17D	2-2.5	04/03/2014	45	< 1.1 U	3.5 J	2	12	18	9.47	< 0.1 U	6.38
080514006	SG17D	2-2.5	08/05/2014	6.8	< 1.2 U	2.7	2.3	7.3	14	10.8	< 0.1 U	7.25
040314006	SG17SS	subslab	04/03/2014	60	< 1.1 U	3.4 J	1.6	13	18	8.76	< 0.1 U	6.81
040314007	SG17SS DUP02	subslab	04/03/2014	60	1.3	3.9 J	1.4	14	19	8.44	< 0.1 U	6.99
080514005	SG17SS	subslab	08/05/2014	7	< 1.2 U	3.8	1.3	21	21	9.99	< 0.1 U	7.84
040314008	SG18D	2-2.5	04/03/2014	76	2.2	6.9 J	1.7	28	34	1.45	< 0.1 U	15.3
080414001	SG18D	2-2.5	08/04/2014	7.2	< 1.1 U	3.9	1.8	22	22	1.07	< 0.1 U	16.2
040314009	SG18SS	subslab	04/03/2014	110	4.5	13 J	1.9	51	58	0.95	< 0.1 U	15.8
080414003	SG18SS	subslab	08/04/2014	9.8	1.5	7.4	2	38	39	0.83	< 0.1 U	16.3
040314010	SG19SS	subslab	04/03/2014	59	1.3	4.5 J	2.1	14	23	0.08	< 0.1 U	16.6
080514004	SG19SS	subslab	08/05/2014	7.1	< 1.2 U	3.1	1.6	14	18	0.12	< 0.1 U	16.9

[O:ECK 7/1/16, QA: ANS 7/8/16][U:ECK 7/8/16, QA: ANS 7/11/16]

**Notes:**

**No exceedances on this table**

< = Concentration is less than reported limi

U = Concentration was not detected above the reported limi

J = Concentration estimatec

bgs = below ground surface

DUP = Field Duplicate

NS = No Standard

ug/m3 = micrograms per cubic meter air

Vapor Risk Screening Levels (VRSLs) based on May 2016 U.S.EPA Regional Screening Level Table:

VRSLs <http://dnr.wi.gov/topic/brownfields/vapor.htm>

SLs used on this table are 10<sup>6</sup> risk value.



**Table 4. Summary of Groundwater Results for City of Marinette**  
**November 2013 through 2016 Sample Results Notification**  
**Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant**  
**Marinette, Wisconsin**  
**BRRTS# 0238000047**

Field ID	Sample Location	Duplicate Of	Sample Date	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	
				1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Acenaphthene (µg/L)	Acenaphthylene (µg/L)	Anthracene (µg/L)	Benzo(a)anthracene (µg/L)	Benzo(a)pyrene (µg/L)	Benzo(b)fluoranthene (µg/L)	Benzo(g,h,i)perylene (µg/L)	Benzo(k)fluoranthene (µg/L)	Chrysene (µg/L)	Dibenz(a,h)anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Indeno(1,2,3-cd)pyrene (µg/L)	Naphthalene (PAH) (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)	PAH, Total (µg/L) <sup>3</sup>
Wisconsin PAL:				NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50	NS
Wisconsin ES:				NS	NS	NS	NS	3,000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	100	NS	250	NS
042314004	MW305		04/23/2014	0.0071 J	0.014 J	< 0.0068 U	0.012 J	0.013 J	0.015 J	0.019 J	0.018 J	0.016 J	0.022 J	<u>0.027 J</u>	< 0.0059 U	0.062	< 0.0066 U	0.013 J	0.028 J	0.043 J	0.042 J	--
042314005	QC1	MW305	04/23/2014	0.021 J	0.043 J	< 0.0068 U	0.013 J	0.012 J	0.0063 J	< 0.0087 U	0.0074 J	0.0088 J	0.010 J	0.011 J	< 0.0059 U	0.023 J	< 0.0066 U	0.0061 J	0.087 B	0.014 J	0.016 J	--
102814012	MW305		10/28/2014	0.026 J	< 0.0020 U	0.0040 J	0.015 J	0.023 J	0.010 JB	0.010 J	0.016 J	0.012 J	0.0068 J	0.014 JB	0.0034 J	0.017 J	0.0039 J	0.0090 J	0.064	0.012 J	0.018 J	--
041315007	MW305		04/13/2015	0.0099 J	0.013 J	< 0.0050 U	0.0052 J	0.011 J	< 0.0051 U	< 0.0044 U	< 0.0053 U	< 0.0035 U	< 0.0056 U	< 0.0042 U	< 0.0056 U	< 0.0094 U	< 0.0040 U	< 0.0036 U	0.017 J	< 0.0077 U	< 0.0077 U	--
102715004	MW305		10/27/2015	< 0.0029 UB	0.0032 JB	< 0.0047 U	< 0.0047 U	0.0048 J	< 0.0048 U	< 0.0042 U	0.0051 J	< 0.0033 U	< 0.0053 U	< 0.0040 U	< 0.0052 U	< 0.0089 U	< 0.0038 U	< 0.0034 U	0.0071 JB	0.011 J	0.0090 J	0.069
041216001	MW305		04/12/2016	0.0036 J	0.0064 J	< 0.0047 U	< 0.0047 U	0.011 J	< 0.0048 U	< 0.0042 U	< 0.0050 U	0.0049 J	< 0.0053 U	< 0.0040 U	< 0.0052 U	0.011 J	< 0.0038 U	< 0.0034 U	0.017 J	< 0.0072 U	0.015 J	0.096
042314003	MW307R		04/23/2014	0.11	0.2	0.24	0.053	0.086	0.058	<u>0.086</u>	<u>0.07</u>	0.054	0.07	<u>0.092</u>	0.011 J	0.23	0.0066 J	0.045 J	0.37	0.072	0.2	--
102814003	MW307R		10/28/2014	0.37	0.025 J	2.4	0.095 J	0.12 J	0.096 J	<u>0.090 J</u>	<u>0.13 J</u>	0.073 J	0.049 J	<u>0.15 J</u>	< 0.016 U	0.48	0.45	0.058 J	0.13 JB	0.39	0.44	--
041315004	MW307R		04/13/2015	0.072	0.0069 J	1	0.042 J	0.047	0.025 J	0.011 J	<u>0.026 J</u>	0.010 J	0.0075 J	<u>0.033 J</u>	< 0.0052 U	0.13	0.17	0.0076 J	0.033 J	0.053	0.13	--
102715020	MW307R		10/27/2015	0.22	0.021 JB	2	0.072	0.064	0.024 J	0.012 J	<u>0.020 J</u>	0.0070 J	0.0099 J	<u>0.035 J</u>	< 0.0053 U	0.2	0.43	0.0051 J	0.097 B	0.12	0.21	3.5
041316012	MW307R		04/13/2016	0.18	0.013 J	1.5	0.049	0.046 J	0.022 J	0.0075 J	0.017 J	0.0077 JB	0.0098 J	<u>0.041 J</u>	< 0.0055 U	0.18	0.3	0.0053 J	0.11	0.17	0.16	2.8
042314010	MW308		04/23/2014	< 0.0062 U	< 0.0064 U	< 0.0068 U	< 0.0063 U	0.011 J	0.0068 J	< 0.0087 U	0.0072 J	0.0063 J	0.0082 J	0.011 J	< 0.0059 U	0.019 J	< 0.0066 U	0.0056 J	0.0087 J	0.017 J	0.019 J	--
102814020	MW308		10/28/2014	0.0042 J	0.0031 J	0.0045 J	< 0.0020 U	0.0046 J	0.0044 JB	0.0042 J	0.0059 J	0.0049 J	0.0035 J	0.0060 JB	< 0.0032 U	0.0056 J	< 0.0022 U	0.0041 J	0.0091 J	0.0043 J	0.0072 J	--
041315006	MW308		04/13/2015	0.0065 J	0.0072 J	< 0.0046 U	< 0.0046 U	< 0.0038 U	< 0.0048 U	< 0.0041 U	0.0061 J	< 0.0033 U	< 0.0053 U	0.0057 J	< 0.0052 U	0.010 J	< 0.0038 U	< 0.0033 U	0.011 J	0.012 J	0.0084 J	--
102715017	MW308		10/27/2015	< 0.0030 U	< 0.0027 U	< 0.0049 U	< 0.0048 U	< 0.0040 U	< 0.0050 U	0.0045 J	0.0073 J	< 0.0034 U	< 0.0055 U	0.0085 J	< 0.0055 U	0.013 J	< 0.0040 U	< 0.0035 U	0.0080 JB	0.0098 J	0.012 J	0.08
041216008	MW308		04/12/2016	0.0044 J	0.0066 J	< 0.0050 U	< 0.0049 U	< 0.0040 U	< 0.0051 U	< 0.0044 U	< 0.0053 U	0.0040 J	< 0.0056 U	< 0.0042 U	< 0.0056 U	< 0.0094 U	< 0.0040 U	< 0.0036 U	0.014 JB	< 0.0077 U	0.0098 J	0.064
042414016	MW310		04/24/2014	< 0.0062 U	< 0.0064 U	0.014 J	0.0075 J	0.040 J	0.031 J	<u>0.031 J</u>	<u>0.025 J</u>	0.023 J	0.027 J	<u>0.042 J</u>	0.0070 J	0.099	0.020 J	0.017 J	0.029 J	0.058	0.093	--
102814004	MW310		10/28/2014	0.13	0.014 J	0.36	0.038 J	0.074	0.08	<u>0.098</u>	<u>0.16</u>	0.1	0.059	<u>0.13</u>	0.018 J	0.29	0.18	0.08	0.3	0.14	0.31	--
102814005	QC1	MW310	10/28/2014	0.11	0.011 J	0.36	0.033 J	0.066	0.062	<u>0.069</u>	<u>0.1</u>	0.064	0.039 J	<u>0.093</u>	0.013 J	0.24	0.17	0.051	0.27	0.083	0.27	--
041315005	MW310		04/13/2015	0.47	0.028 J	0.98	0.036 J	0.031 J	0.021 J	0.0089 J	<u>0.021 J</u>	0.0099 J	0.0087 J	<u>0.021 J</u>	< 0.0053 U	0.12	0.28	0.0072 J	1.5	0.044 J	0.11	--
102715003	MW310		10/27/2015	0.83	0.13 B	1.4	0.044 J	0.040 J	0.0063 J	< 0.0042 U	0.0053 J	< 0.0034 U	< 0.0054 U	0.012 J	< 0.0053 U	0.099	0.4	< 0.0034 U	2.7	0.046 J	0.1	5.9
041316014	MW310		04/13/2016	0.8	0.025 J	2.2	0.056	0.035 J	0.011 J	0.0062 J	0.014 J	0.0073 JB	0.0088 J	0.019 J	< 0.0056 U	0.1	0.51	0.0052 JB	1	0.099	0.093	5.1
042314011	MW311		04/23/2014	206 J	83.1 J	158 J	< 31.9 U	< 33.9 U	< 26.9 U	< 43.8 U*	< 31.1 U*	< 18.9 U	< 14.0 U	< 15.3 U*	< 29.6 U	< 36.2 U	39.3 J	< 24.6 U	<b>1,350</b>	< 41.8 U	< 38.3 U	--
102814006	MW311		10/28/2014	105	7.8 J	97.8	< 2.0 U	7.5 J	< 2.0 U	< 2.6 U*	< 2.8 U*	< 3.2 U	< 3.4 U	< 2.1 U*	< 3.2 U	3.9 J	30.7 J	< 2.5 U	<b>576</b>	38.3 JB	3.8 J	--
041415013	MW311		04/14/2015	95.2	17.8	82.2	1.5 J	3.3 J	< 0.48 U	< 0.42 U*	< 0.50 U*	< 0.33 U	< 0.53 U	< 0.40 U*	< 0.52 U	2.0 J	21.4	< 0.34 U	<b>544</b>	19.4	2.0 J	--
102715019	MW311		10/27/2015	98.7	17.2 B	86.2	1.4 J	3.4 J	< 0.50 U	< 0.43 U*	< 0.52 U*	< 0.34 U	< 0.55 U	< 0.41 U*	< 0.54 U	2.1 J	22.4	< 0.35 U	<b>580</b>	24.8	2.0 J	839
041316013	MW311		04/13/2016	79.9	10.3	55.7	0.85 J	1.7 J	< 0.37 U	< 0.32 U*	< 0.38 U*	< 0.25 U	< 0.40 U	< 0.30 U*	< 0.40 U	1.3 J	12.9	< 0.26 U	<b>459</b>	15.8	1.2 J	639
042314001	MW312		04/23/2014	0.0076 J	< 0.0064 U	0.16	0.015 J	0.056	0.0090 J	< 0.0087 U	< 0.0062 U	0.0061 J	0.0074 J	0.012 J	< 0.0059 U	0.066	0.1	< 0.0049 U	0.0082 J	0.035 J	0.067	--
102714001	MW312		10/27/2014	0.057	0.030 J	0.16	0.1	0.068	0.019 J	0.017 J	<u>0.022 J</u>	0.016 J	0.0081 J	<u>0.025 J</u>	0.0033 J	0.08	0.1	0.012 J	0.37	0.021 JB	0.094	--
041315001	MW312		04/13/2015	0.011 J	0.0096 J	0.18	0.014 J	0.022 J	0.0063 J	< 0.0042 U	< 0.0050 U	< 0.0033 U	< 0.0053 U	0.0070 J	< 0.0052 U	0.049	0.11	< 0.0034 U	0.016 J	0.020 J	0.047 J	--
041315002	QC1	MW312	04/13/2015	0.010 J	0.0058 J	0.19	0.014 J	0.028 J	0.0057 J	< 0.0042 U	< 0.0050 U	< 0.0033 U	< 0.0053 U	0.0056 J	< 0.0052 U	0.05	0.11	< 0.0034 U	0.014 J	0.018 J	0.048	--
102615001	MW312		10/26/2015	0.017 JB	0.0058 JB	0.22	0.013 J	0.038 J	< 0.0049 U	< 0.0042 U	< 0.0051 U	< 0.0033 U	< 0.0054 U	0.0070 JB	< 0.0053 U	0.059	0.12	< 0.0034 U	0.021 JB	0.028 JB	0.061	0.6
041316015	MW312		04/13/2016	0.010 J	0.0046 J	0.16	0.0097 J	0.023 J	< 0.0049 U	< 0.0042 U	0.011 J	0.0038 JB	< 0.0054 U	0.012 J	< 0.0053 U	0.042 J	0.09	< 0.0034 U	0.036 JB	0.012 J	0.046 J	0.47

Table 4. Summary of Groundwater Results for City of Marinette

November 2013 through 2016 Sample Results Notification  
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant  
 Marinette, Wisconsin  
 BRRTS# 0238000047

Field ID	Sample Location	Duplicate Of	Sample Date	PAH																	PAH, Total (ug/L) <sup>3</sup>	
				1-Methylnaphthalene (ug/L)	2-Methylnaphthalene (ug/L)	Acenaphthene (ug/L)	Acenaphthylene (ug/L)	Anthracene (ug/L)	Benzo(a)anthracene (ug/L)	Benzo(a)pyrene (ug/L)	Benzo(b)fluoranthene (ug/L)	Benzo(ghi)perylene (ug/L)	Benzo(k)fluoranthene (ug/L)	Chrysene (ug/L)	Dibenz(a,h)anthracene (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Indeno(1,2,3-cd)pyrene (ug/L)	Naphthalene (PAH) (ug/L)	Phenanthrene (ug/L)		Pyrene (ug/L)
Wisconsin PAL:				NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50	NS
Wisconsin ES:				NS	NS	NS	NS	3,000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	100	NS	250	NS
042314009	MW313		04/23/2014	0.025 J	< 0.0064 U	0.27	0.014 J	0.048	0.0063 J	< 0.0087 U	0.0079 J	0.0079 J	0.0088 J	0.0099 J	< 0.0059 U	0.037 J	0.049	0.0060 J	0.016 J	0.029 J	0.030 J	--
102814018	MW313		10/28/2014	0.0027 J	0.0028 J	0.0069 J	0.014 J	0.051	0.011 JB	0.014 J	<u>0.025 J</u>	0.016 J	0.010 J	<u>0.020 JB</u>	0.0035 J	0.032 J	0.013 J	0.013 J	0.0080 J	0.0077 J	0.030 J	--
041315011	MW313		04/13/2015	0.0039 J	0.0048 J	0.068	0.0055 J	0.016 J	< 0.0050 U	< 0.0043 U	0.0065 J	< 0.0034 U	< 0.0055 U	< 0.0042 U	< 0.0055 U	0.014 J	0.014 J	< 0.0035 U	0.012 J	< 0.0075 U	0.013 J	--
102715010	MW313		10/27/2015	0.0037 JB	0.0047 JB	0.12	0.0080 J	0.026 J	< 0.0049 U	0.0045 J	0.0085 J	0.0057 J	< 0.0054 U	0.0075 J	< 0.0053 U	0.036 J	0.049	0.0042 J	0.0096 JB	0.012 J	0.027 J	0.33
041216006	MW313		04/12/2016	0.0045 J	0.0061 J	0.0088 J	0.0071 J	0.022 J	0.016 J	0.0054 J	0.019 J	0.012 J	0.0088 J	0.018 JB	< 0.0059 U	0.022 J	0.0071 J	0.0088 J	0.021 J	0.015 J	0.023 J	0.23
102814015	P302		10/28/2014	0.0058 J	0.0072 J	0.0069 J	0.0041 J	0.024 J	0.079	<u>0.063</u>	<u>0.071</u>	0.064	0.073	<u>0.089</u>	0.066	0.05	0.0088 J	0.066	0.012 J	0.021 J	0.056	--
102715005	P302		10/27/2015	< 0.0029 U	0.0029 JB	< 0.0046 U	< 0.0046 U	< 0.0038 U	< 0.0048 U	< 0.0041 U	< 0.0050 U	< 0.0033 U	< 0.0053 U	< 0.0040 U	< 0.0052 U	< 0.0088 U	< 0.0038 U	< 0.0033 U	0.0074 JB	< 0.0072 U	< 0.0072 U	0.028
102715006	QC1	P302	10/27/2015	0.0065 JB	0.0040 JB	< 0.0049 U	< 0.0048 U	< 0.0040 U	< 0.0050 U	< 0.0043 U	0.0061 J	< 0.0034 U	< 0.0055 U	0.0063 J	< 0.0055 U	< 0.0092 U	< 0.0040 U	< 0.0035 U	0.0096 JB	0.012 J	0.0081 J	0.072
102814009	P303		10/28/2014	0.0080 J	0.0040 J	0.0087 J	0.028 J	0.016 J	0.038 J	<u>0.039 J</u>	<u>0.048</u>	0.027 J	0.019 J	<u>0.047</u>	0.0063 J	0.059	0.0066 J	0.021 J	0.0098 J	0.041 J	0.071	--
102715016	P303		10/27/2015	0.0075 JB	0.0098 JB	< 0.0053 U	0.012 J	< 0.0043 U	< 0.0055 U	0.0063 J	0.0092 J	< 0.0038 U	< 0.0061 U	0.010 J	< 0.0060 U	0.014 J	0.0046 J	< 0.0038 U	0.027 JB	0.030 J	0.019 J	0.17
102814007	P304		10/28/2014	0.0087 JB	0.0030 J	0.0069 J	0.0075 J	0.0041 J	0.016 J	<u>0.021 J</u>	<u>0.029 J</u>	0.020 J	0.012 J	<u>0.026 J</u>	0.0033 J	0.039 J	< 0.0022 U	0.014 J	0.038 JB	0.020 JB	0.040 J	--
102715013	P304		10/27/2015	< 0.0033 U	< 0.0029 U	< 0.0053 U	0.0064 J	< 0.0043 U	0.0067 J	0.0055 J	0.011 J	0.0058 J	< 0.0060 U	0.012 J	< 0.0059 U	0.014 J	< 0.0043 U	< 0.0038 U	< 0.0048 U	0.023 J	0.016 J	0.12
102814019	P305		10/28/2014	0.045 J	< 0.020 U	6.7	0.37 J	0.097 J	0.035 JB	< 0.026 U*	< 0.028 U*	< 0.032 U	< 0.034 U	<u>0.036 JB</u>	< 0.032 U	1.1	0.20 J	< 0.025 U	0.092 J	0.074 J	0.94	--
102715018	P305		10/27/2015	0.11 B	0.0064 JB	4.9	0.24	0.045 J	0.014 J	< 0.0042 U	< 0.0050 U	< 0.0033 U	< 0.0053 U	0.011 J	< 0.0052 U	0.41	0.097	< 0.0034 U	0.33 B	0.030 J	0.32	6.5

Notes

*Italic Underline = result meets or exceeds WDNR PAL*

**BOLD = result meets or exceeds WDNR ES**

< = Concentration is less than reported limit

NS = No Standard

QC = Quality Control Field Duplicate sample

1. Total Xylenes calculated from the sum of the detected Xylene-o and Xylene-m+p results reported by the laboratory as follows:

- Where no detections were observed, the sum of the reporting limits is presented.
- Where detections were observed, the detected results were added together for the total summation.

2. Total Xylenes April 2015 and earlier calculated by NRT (Natural Resource Technology, Inc.)

3. Total PAH results shown were calculated by the laboratory.

\* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria

J = Indicates an estimated value.

U = Analyzed for but was not detected above the reported limit.

B = Analyte was detected in the associated method blank.

Lab comments and definitions can be found in associated laboratory and validation reports.

PAH = polycyclic aromatic hydrocarbons

BETX = benzene, toluene, ethylbenzene and xylenes

mg/L = milligrams per liter

µg/L = micrograms per liter

ES = Enforcement Standard

PAL = Preventive Action Limit

PAL and ES from WI Administrative Code NR 140 Groundwater Quality Standard revised effective July 2015.



**Table 3. Summary of Groundwater Results for City of Marinette**  
**November 2013 through 2016 Sample Results Notification**  
**Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant**  
**Marinette, Wisconsin**  
**BRTS# 023800047**

Field ID	Sample Location	Duplicate Of	Sample Date	BTEX	BTEX	BTEX	BTEX	BTEX	BTEX	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Inorganic	Inorganic	Inorganic	Inorganic	
				Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, m + p (µg/L)	Xylene, o (µg/L)	Xylenes, Total (µg/L) <sup>1,2</sup>	Aluminum, Dissolved (µg/L)	Antimony, Dissolved (µg/L)	Copper, Dissolved (µg/L)	Iron, Dissolved (µg/L)	Manganese, Dissolved (µg/L)	Nickel, Dissolved (µg/L)	Silver, Dissolved (µg/L)	Vanadium, Dissolved (µg/L)	Zinc, dissolved (µg/L)	Alkalinity, Total (mg/L)	Methane (µg/L)	Nitrogen, NO2 + NO3, Total (mg/L)	Sulfate, Total (mg/L)
Wisconsin PAL:				0.5	140	160	NS	NS	400	40	1.2	130	150	25	20	10	6	2,500	NS	NS	2	125
Wisconsin ES:				5	700	800	NS	NS	2,000	200	6	1,300	300	50	100	50	30	5,000	NS	NS	10	250
042314002	MW01R		04/23/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.64 J	1.7	<b>5,430</b>	<b>831</b>	1.9	0.16 J	0.69 J	6.7 J	606	975	< 0.095 U	<b>310</b>
102714002	MW01R		10/27/2014	< 0.50 U*	< 0.50 U	0.56 J	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.24 J	0.52 J	<b>9,310</b>	<b>860</b>	4.4	< 0.016 U	0.98 J	8.3 J	830	3,470	< 0.095 U	27.2
041315003	MW01R		04/13/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.32 J	0.48 J	<b>8,770</b>	<b>1,230</b>	1.6	< 0.016 U	0.77 J	8.9 J	272	3,500	< 0.095 U	112
102615002	MW01R		10/26/2015	< 0.50 U*	< 0.50 U	3.7	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.089 J	0.30 J	<b>5,490</b>	<b>657</b>	0.92 J	< 0.016 U	1.5	7.0 JB	639	6,800	< 0.095 U	3.7 J
041316016	MW01R		04/13/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.18 J	6.1	<b>5,750</b>	<b>552</b>	1.5	< 0.016 U	0.73 J	5.4 J	351	2,800	< 0.095 U	< 10.0 U
042414015	MW03R		04/24/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.60 J	5.7	22.4 J	2.5	2	< 0.016 U	1.3	21.4	469	< 1.4 U	<b>14</b>	<u>130</u>
102814010	MW03R		10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.64 J	7.3	<u>269</u>	<b>242</b>	5.7	< 0.016 U	2.1	18.2	477	14	<u>4.7</u>	<u>204</u>
041415016	MW03R		04/14/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.59 J	5	< 10.0 U	1.7	1.8	< 0.016 U	1.3	21	354	< 1.4 U	<u>8.4</u>	<u>151</u>
102715014	MW03R		10/27/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.60 J	7.4	19.8 JB	<b>65.6</b>	3.6	< 0.016 U	2.1	26.8 B	422	6	< 0.095 U	119
102715015	QC2	MW03R	10/27/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.63 J	7.2	22.8 JB	<b>72.2</b>	3.5	< 0.016 U	2.2	27.8 B	428	5.6	< 0.095 U	119
041216009	MW03R		04/12/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.78 J	5.9	37.4 J	6.3	3.8	< 0.016 U	1.1	44.3	412	< 1.4 U	<u>6.2</u>	95.6
041216010	QC2	MW03R	04/12/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.78 J	5.1	40.7 J	7.4	1.9	< 0.016 U	0.96 J	44.6	424	< 1.4 U	<u>6.3</u>	95.8
042414013	MW05		04/24/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	2.4	17.5 J	<b>519</b>	1.3	< 0.016 U	< 0.15 U	< 3.1 U	305	< 1.4 U	<u>2.9</u>	118
042414014	QC2	MW05	04/24/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	2.5	14.3 J	<b>519</b>	1.5	< 0.016 U	< 0.15 U	< 3.1 U	305	< 1.4 U	<u>2.9</u>	119
102814008	MW05		10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	1.9	5.7 J	<b>1,290</b>	2	< 0.016 U	< 0.15 U	< 3.1 U	264	< 1.4 U	<u>3.8</u>	91.9
041415014	MW05R		04/14/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	1.4	< 10.0 U	<b>392</b>	0.84 J	< 0.016 U	< 0.15 U	< 3.1 U	218	< 1.4 U	<u>3</u>	67.5
041415015	QC2	MW05R	04/14/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	1.9	< 10.0 U	<b>386</b>	2.3	< 0.016 U	< 0.15 U	4.5 J	232	< 1.4 U	<u>3</u>	68.3
102715011	MW05R		10/27/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	2.8	<u>151 JB</u>	<b>1,960</b>	2.6	< 0.016 U	< 0.15 U	8.9 JB	271	< 1.4 U	<u>4</u>	119
041216007	MW05		04/12/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	2.4	11.3 J	<b>283</b>	2.4	< 0.016 U	< 0.15 U	< 3.1 U	276	< 1.4 U	<u>2.8</u>	97.9
042314006	MW302		04/23/2014	<b>22.5</b>	0.82 J	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	0.33 J	<b>3,560</b>	<b>87.9</b>	1.1	< 0.016 U	0.20 J	4.2 J	345	148	< 0.095 U	<u>244</u>
102814013	MW302		10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.38 J	21.8	91.7 J	<b>160</b>	2.8	< 0.016 U	0.46 J	6.0 J	359	< 1.4 U	0.16 J	90.8
102814014	QC2	MW302	10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.40 J	3.5	78.7 J	<b>160</b>	2.6	< 0.016 U	0.52 J	< 3.1 U	389	< 1.4 U	0.19 J	102
041315008	MW302		04/13/2015	<u>2.4</u>	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.28 J	4.7	<u>183 J</u>	<b>177</b>	2.6	< 0.016 U	0.30 J	3.3 J	378	26.7	1.9	124
102715007	MW302		10/27/2015	<u>1.3</u>	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.22 J	2.3	131 JB	<b>172</b>	3	< 0.016 U	0.27 J	8.2 JB	320	111	< 0.095 U	67.6
041216002	MW302		04/12/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.46 J	4.4	42.9 J	0.85 J	2.7	< 0.016 U	0.18 J	3.4 J	287	< 1.4 U	<u>4.1</u>	69.6
042314008	MW303		04/23/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.36 J	1.3	<b>1,280</b>	<b>543</b>	1.3	< 0.016 U	0.28 J	< 3.1 U	450	136	<u>3</u>	<u>128</u>
102814016	MW303		10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.41 J	4.1	<b>933</b>	<b>920</b>	3.2	< 0.016 U	0.29 J	3.7 J	450	102	1.1	<u>159</u>
041315010	MW303		04/13/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.54 J	5	<b>388</b>	<b>690</b>	2.7	< 0.016 U	0.50 J	3.6 J	438	20.6	<u>6.7</u>	<b>328</b>
102715009	MW303		10/27/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.37 J	3.6	<b>1,170</b>	<b>901</b>	3.7	< 0.016 U	0.54 J	6.3 JB	513	159	0.38	53.1
041216004	MW303		04/12/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.48 J	4	<b>383</b>	<b>743</b>	4	< 0.016 U	0.37 J	3.5 J	487	167	<u>3.4</u>	<u>158</u>
041216005	QC1	MW303	04/12/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.52 J	3.9	<b>373</b>	<b>818</b>	2.4	< 0.016 U	0.34 J	< 3.1 U	470	167	<u>3.5</u>	<u>148</u>
042314007	MW304		04/23/2014	<u>1.2</u>	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	<u>1.8</u>	2.6	149 J	<b>50.5</b>	1.4	< 0.016 U	4.5	< 3.1 U	582	< 1.4 U	1	<u>218</u>
102814017	MW304		10/28/2014	<u>1.9</u>	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	<u>3.4</u>	4.1	123 J	<b>480</b>	1.7	< 0.016 U	4.1	3.2 J	505	31.8	0.13 J	<u>167</u>
041315009	MW304		04/13/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	<u>1.7</u>	3.8	122 J	<b>440</b>	1.2	< 0.016 U	3.8	3.3 J	365	1.8 J	0.8	119
102715008	MW304		10/27/2015	<b>52.2</b>	4.8	7.9	4.7	3.9	8.6	< 68.7 U*	<u>1.4</u>	0.52 J	<b>309</b>	<b>666</b>	2.1	< 0.016 U	2.8	4.6 JB	210	201	< 0.095 U	<u>177</u>
041216003	MW304		04/12/2016	<u>0.85 J</u>	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	<u>2.1</u>	4.6	80.6 J	5.6	1.4	< 0.016 U	2.7	< 3.1 U	314	< 1.4 U	0.61	23.8

**Table 3. Summary of Groundwater Results for City of Marinette**  
**November 2013 through 2016 Sample Results Notification**  
**Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant**  
**Marinette, Wisconsin**  
**BRRTS# 0238000047**

Field ID	Sample Location	Duplicate Of	Sample Date	BTEX	BTEX	BTEX	BTEX	BTEX	BTEX	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Inorganic	Inorganic	Inorganic	Inorganic	
				Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, m + p (µg/L)	Xylene, o (µg/L)	Xylenes, Total (µg/L) <sup>1,2</sup>	Aluminum, Dissolved (µg/L)	Antimony, Dissolved (µg/L)	Copper, Dissolved (µg/L)	Iron, Dissolved (µg/L)	Manganese, Dissolved (µg/L)	Nickel, Dissolved (µg/L)	Silver, Dissolved (µg/L)	Vanadium, Dissolved (µg/L)	Zinc, dissolved (µg/L)	Alkalinity, Total (mg/L)	Methane (µg/L)	Nitrogen, NO2 + NO3, Total (mg/L)	Sulfate, Total (mg/L)
Wisconsin PAL:				0.5	140	160	NS	NS	400	40	1.2	130	150	25	20	10	6	2,500	NS	NS	2	125
Wisconsin ES:				5	700	800	NS	NS	2,000	200	6	1,300	300	50	100	50	30	5,000	NS	NS	10	250
042314004	MW305		04/23/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	2.7	<u>159 J</u>	2.1	0.54 J	< 0.016 U	< 0.15 U	5.6 J	240	< 1.4 U	<u>5.7</u>	70.2
042314005	QC1	MW305	04/23/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	2.3	<u>163 J</u>	0.40 J	0.35 J	< 0.016 U	< 0.15 U	6.0 J	245	< 1.4 U	<u>5.5</u>	73.2
102814012	MW305		10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	1.0 J	1.1	2.1 J	< 68.7 U*	< 0.073 U	3.3	<u>287</u>	0.83 J	1	< 0.016 U	< 0.15 U	5.9 J	342	< 1.4 U	<u>9.6</u>	<u>134</u>
041315007	MW305		04/13/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	3	<u>162 J</u>	0.87 J	1.3	< 0.016 U	< 0.15 U	7.6 J	306	< 1.4 U	<u>8.2</u>	93.5
102715004	MW305		10/27/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	3.4	<u>176 JB</u>	2.6	0.93 J	< 0.016 U	< 0.15 U	10.1 B	309	< 1.4 U	<u>9.2</u>	102
041216001	MW305		04/12/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.16 J	4.1	<b>598</b>	0.33 J	0.72 J	< 0.016 U	0.28 J	8.1 J	367	< 1.4 U	<b>14.6</b>	<u>193</u>
042314003	MW307R		04/23/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.48 J	0.81 J	<b>5,450</b>	<b>2,080</b>	3	< 0.016 U	0.30 J	17.2	399	191	< 0.095 U	<u>191</u>
102814003	MW307R		10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	10.2	<b>38,200</b>	<b>433</b>	2.9	< 0.016 U	0.49 J	39.1	386	5,360	< 0.095 U	< 10.0 U
041315004	MW307R		04/13/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.10 J	0.79 J	<b>11,200</b>	<b>1,260</b>	2.4	< 0.016 U	< 0.15 U	11.8	384	1,670	0.20 J	124
102715020	MW307R		10/27/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	0.58 J	<b>36,800</b>	<b>774</b>	1.1	< 0.016 U	0.36 J	7.2 JB	534	6,030	< 0.095 U	< 2.0 U
041316012	MW307R		04/13/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	1.5	<b>41,600</b>	<b>529</b>	1.8	< 0.016 U	0.20 J	4.3 J	384	5,500	< 0.095 U	12.4 J
042314010	MW308		04/23/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 137 U*	0.25 J	4	<b>687</b>	<b>1,890</b>	11.3	< 0.016 U	1.2 J	270	660	< 1.4 U	0.34	<b>504</b>
102814020	MW308		10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.16 J	2.8	<b>5,390</b>	<b>2,210</b>	11.5	0.020 J	1.4	195	578	15.8	< 0.095 U	<u>248</u>
041315006	MW308		04/13/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.10 J	3.3	<b>3,250</b>	<b>2,120</b>	11	< 0.016 U	1.1	200	603	26.8	0.14 J	<u>242</u>
102715017	MW308		10/27/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.10 J	4.2	<b>5,340</b>	<b>3,300</b>	15.3	< 0.016 U	1.1	183	653	44.9	< 0.095 U	<b>348</b>
041216008	MW308		04/12/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.23 J	5.6	<b>1,360</b>	<b>965</b>	<u>22.4</u>	< 0.033 U	0.45 J	279	648	6.5	0.54	<b>723</b>
042414016	MW310		04/24/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.11 J	1.1	<b>6,840</b>	<b>438</b>	2.5	< 0.016 U	1.2	8.5 J	394	24.6	0.11 J	<u>193</u>
102814004	MW310		10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	1.3	<b>24,200</b>	<b>1,200</b>	1.4	< 0.016 U	5.5	6.0 J	576	925	< 0.095 U	67.7
102814005	QC1	MW310	10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	0.30 J	<b>23,400</b>	<b>1,180</b>	0.93 J	< 0.016 U	5.3	< 3.1 U	583	834	< 0.095 U	65.3
041315005	MW310		04/13/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	0.44 J	<b>24,500</b>	<b>1,160</b>	0.94 J	< 0.016 U	3	3.9 J	516	1,290	< 0.095 U	24.7
102715003	MW310		10/27/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	0.89 J	<b>34,000</b>	<b>1,530</b>	1.9	< 0.016 U	5.1	8.4 JB	653	2,650	< 0.095 U	15.8
041316014	MW310		04/13/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	1.1	<b>33,400</b>	<b>1,580</b>	0.97 J	< 0.016 U	3.9	4.7 J	537	2,900	< 0.095 U	20.4
042314011	MW311		04/23/2014	<b>426</b>	<u>460</u>	13.3	30.5	124	154.5	< 68.7 U*	< 0.073 U	0.45 J	<b>44,000</b>	<b>2,250</b>	0.79 J	< 0.016 U	3.8	< 3.1 U	892	2,390	< 0.095 U	2.7 J
102814006	MW311		10/28/2014	<b>330</b>	<u>213</u>	9.8	17.1	110	127.1	< 68.7 U*	< 0.073 U	3	<b>29,600</b>	<b>1,470</b>	1.2	< 0.016 U	2.6	4.6 J	940	4,190	< 0.095 U	20.2
041415013	MW311		04/14/2015	<b>104</b>	121	7.7 J	15.0 J	60.8	75.8 J	< 68.7 U*	< 0.073 U	0.42 J	<b>28,500</b>	<b>1,320</b>	0.78 J	< 0.016 U	0.77 J	3.1 J	671	2,630	< 0.095 U	37.7
102715019	MW311		10/27/2015	<b>172</b>	137	7.3 J	12.9 J	63.7	76.7	< 68.7 U*	< 0.073 U	9	<b>29,300</b>	<b>1,220</b>	1.5	< 0.016 U	2.7	10.6 B	967	3,080	< 0.095 U	< 10.0 U
041316013	MW311		04/13/2016	<b>234</b>	<u>183</u>	14.5	26.5	97.2	124	< 68.7 U*	0.17 J	0.39 J	<b>26,100</b>	<b>1,210</b>	1.3	0.030 J	2.1	4.8 J	744	2,820	< 0.095 U	45.4
042314001	MW312		04/23/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.26 J	0.80 J	<b>14,800</b>	<b>897</b>	0.88 J	0.068 J	0.84 J	< 3.1 U	914	13,700	< 0.095 U	<b>310</b>
102714001	MW312		10/27/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.16 J	0.49 J	<b>3,870</b>	<b>535</b>	4.3	< 0.016 U	1.6	6.7 J	922	12,000	< 0.095 U	35.4
041315001	MW312		04/13/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.24 J	0.59 J	<b>3,650</b>	<b>394</b>	0.56 J	< 0.016 U	0.79 J	< 3.1 U	743	9,800	< 0.095 U	65.2
041315002	QC1	MW312	04/13/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.15 J	< 0.26 U	<b>3,780</b>	<b>404</b>	0.23 J	< 0.016 U	0.85 J	3.1 J	732	8,770	< 0.095 U	63.9
102615001	MW312		10/26/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.26 J	0.26 J	<b>8,280</b>	<b>573</b>	0.43 J	< 0.016 U	1.2	5.7 JB	776	9,450	< 0.095 U	4.8
041316015	MW312		04/13/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.23 J	0.34 J	<b>5,200</b>	<b>478</b>	2	< 0.016 U	0.58 J	< 3.1 U	692	8,790	< 0.095 U	11.2 J

Table 3. Summary of Groundwater Results for City of Marinette

November 2013 through 2016 Sample Results Notification  
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant  
 Marinette, Wisconsin  
 BRRTS# 0238000047

Field ID	Sample Location	Duplicate Of	Sample Date	BTEX	BTEX	BTEX	BTEX	BTEX	BTEX	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Inorganic	Inorganic	Inorganic	Inorganic	
				Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, m + p (µg/L)	Xylene, o (µg/L)	Xylenes, Total (µg/L) <sup>1,2</sup>	Aluminum, Dissolved (µg/L)	Antimony, Dissolved (µg/L)	Copper, Dissolved (µg/L)	Iron, Dissolved (µg/L)	Manganese, Dissolved (µg/L)	Nickel, Dissolved (µg/L)	Silver, Dissolved (µg/L)	Vanadium, Dissolved (µg/L)	Zinc, dissolved (µg/L)	Alkalinity, Total (mg/L)	Methane (µg/L)	Nitrogen, NO2 + NO3, Total (mg/L)	Sulfate, Total (mg/L)
Wisconsin PAL:				0.5	140	160	NS	NS	400	40	1.2	130	150	25	20	10	6	2,500	NS	NS	2	125
Wisconsin ES:				5	700	800	NS	NS	2,000	200	6	1,300	300	50	100	50	30	5,000	NS	NS	10	250
042314009	MW313		04/23/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.94 J	6.4	<b>1,220</b>	<b>592</b>	2.3	< 0.016 U	0.58 J	6.2 J	356	2,760	<b>24</b>	<b>398</b>
102814018	MW313		10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	1.1	12	<b>1,310</b>	<b>266</b>	3.1	< 0.016 U	2.5	32.2	335	8,160	<u>6.3</u>	41.5
041315011	MW313		04/13/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.71 J	3.7	<b>8,280</b>	<b>501</b>	2.3	< 0.016 U	1.2	5.6 J	320	1,800	<u>8.5</u>	<u>152</u>
102715010	MW313		10/27/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.25 J	0.71 J	<b>29,900</b>	<b>727</b>	4.8	< 0.016 U	5.3	9.7 JB	442	8,570	< 0.095 U	18.1
041216006	MW313		04/12/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.96 J	4.9	<b>451</b>	<b>174</b>	4	< 0.016 U	1.1	5.4 J	308	1,760	<u>3.6</u>	69.1
102814015	P302		10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	<u>1.7</u>	0.92 J	<b>1,980</b>	<b>444</b>	0.49 J	< 0.016 U	0.65 J	< 3.1 U	240	3.4	< 0.095 U	59
102715005	P302		10/27/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	1.8	<b>1,460</b>	<b>557</b>	0.79 J	< 0.016 U	1.2	8.8 JB	268	45.3	< 0.095 U	64.3
102715006	QC1	P302	10/27/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	1.1	<b>1,430</b>	<b>519</b>	0.51 J	< 0.016 U	1	4.9 JB	267	51.2	< 0.095 U	65
102814009	P303		10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	<b>236 J</b>	< 0.073 U	2.4	<b>400</b>	<u>28.1</u>	1.8	< 0.016 U	1.3	7.0 J	143	< 1.4 U	0.22 J	<b>799</b>
102715016	P303		10/27/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.17 J	1.2	41.9 JB	7.9	0.86 J	< 0.016 U	0.68 J	7.1 JB	146	< 1.4 U	0.27	<b>822</b>
102814007	P304		10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.087 J	2.5	55.3 J	<b>244</b>	1.6	< 0.016 U	0.34 J	40.8	184	< 1.4 U	1.7	<b>638</b>
102715013	P304		10/27/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	0.16 J	2.2	28.7 JB	10.5	1	< 0.016 U	0.63 J	35.1 B	166	< 1.4 U	<u>2</u>	<b>590</b>
102814019	P305		10/28/2014	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	0.56 J	<b>6,890</b>	<b>815</b>	0.92 J	< 0.016 U	<u>6.2</u>	3.3 J	389	176	< 0.095 U	22.8
102715018	P305		10/27/2015	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.50 U	< 68.7 U*	< 0.073 U	0.94 J	<b>4,580</b>	<b>1,030</b>	2.7	< 0.016 U	3.1	16.8 B	445	70	< 0.095 U	19.9

[O:ECK 6/16/16, C:SGW 6/20/16, QA: ANS 7/8/16]

Notes

*Italic Underline = result meets or exceeds WDNR PAL*

**BOLD = result meets or exceeds WDNR ES**

< = Concentration is less than reported limit

NS = No Standard

QC = Quality Control Field Duplicate sample

1. Total Xylenes calculated from the sum of the detected Xylene-o and Xylene-m+p results reported by the laboratory as follows:

- Where no detections were observed, the sum of the reporting limits is presented.
- Where detections were observed, the detected results were added together for the total summation.

2. Total Xylenes April 2015 and earlier calculated by NRT (Natural Resource Technology, Inc.)

3. Total PAH results shown were calculated by the laboratory.

\* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria

J = Indicates an estimated value.

U = Analyzed for but was not detected above the reported limit.

B = Analyte was detected in the associated method blank.

Lab comments and definitions can be found in associated laboratory and validation reports.

PAH = polycyclic aromatic hydrocarbons

BETX = benzene, toluene, ethylbenzene and xylenes

mg/L = milligrams per liter

µg/L = micrograms per liter

ES = Enforcement Standard

PAL = Preventive Action Limit

PAL and ES from WI Administrative Code NR 140 Groundwater Quality Standard revised effective July 2015.

**Table 5. Summary of Sand Cap Results for City of Marinette**  
**November 2013 through 2016 Sample Results Notification**  
**Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant**  
**Marinette, Wisconsin**  
**BRRTS# 0238000047**

Field ID	Sample Location	Duplicate Of	Depth (feet)	Sample Date	Acenaphthene (µg/kg)	Acenaphthylene (µg/kg)	Anthracene (µg/kg)	Benzo(a)anthracene (µg/kg)	Benzo(a)pyrene (µg/kg)	Benzo(b)fluoranthene (µg/kg)	Benzo(k)fluoranthene (µg/kg)	Chrysene (µg/kg)	Fluoranthene (µg/kg)	Fluorene (µg/kg)	Naphthalene (µg/kg)	Phenanthrene (µg/kg)	Pyrene (µg/kg)	Percent Moisture (%)
052114003	A1B33		0-0.5	05/21/2014	< 9.5 U	< 8.5 U	< 9.8 U	13.8 J	15.0 J	14.4 J	16.2 J	18.5 J	36	< 9.5 U	< 9.5 U	14.4 J	27.1	12.1
102714003	A1B33		0-0.5	10/27/2014	12.6 J	< 8.4 U	21.6	29.5	32.1	27.8	30.5	39.9	75	< 9.4 U	41.1	46.8	62.5	11
052114004	A1B33		0.5-1.3	05/21/2014	< 9.2 U	< 8.3 U	< 9.6 U	< 6.4 U	< 6.6 U	< 9.2 U	< 10.2 U	< 8.5 U	< 9.2 U	< 9.2 U	12.4 J	< 9.2 U	< 9.2 U	9.7
102714004	A1B33		0.5-1.5	10/27/2014	974	186 J	843	626	588	377 J	470	676	1,450	524	5,230	2,030	1,260	17
102714005	DUP01	A1B33	0.5-1.5	10/27/2014	302	53.0 J	269	190	197	119	154	203	429	153	1,310	593	360	13.2
052114005	A1B35		0-0.5	05/21/2014	17.1 J	11.4 J	28.5	66.1	78.7	69	73.4	87.5	197	14.3 J	10.5 J	116	155	16.9
102714006	A1B35		0-0.5	10/27/2014	22.4	23.1	52.1	70	72.4	49	59.2	76.8	156	13.2 J	17.3 J	110	136	12.6
102714007	A1B35		0.5-1.35	10/27/2014	2,180	487	2,480	1,530	1,570	898	1,310	1,690	3,560	1,340	6,830	5,100	2,880	30.8
052114006	A1B35		0.5-1.5	05/21/2014	6,220	991	5,080	2,500	2,490	1,720	1,870	2,620	7,140	3,600	22,900	11,800	5,830	32.2
052114007	DUP01	A1B35	0.5-1.5	05/21/2014	2,350	498	2,130	1,500	1,480	929	1,180	1,610	3,480	1,620	7,600	5,420	2,790	24.2
052114001	A1E4		0-0.5	05/21/2014	23.3	< 8.3 U	13.8 J	24.9	28.5	26.7	26.2	32	66.3	< 9.3 U	< 9.3 U	40.4	52.7	10
102714001	A1E4		0-0.5	10/27/2014	< 9.3 U	< 8.3 U	< 9.6 U	7.7 J	10.5 J	10.8 J	10.8 J	14.5 J	25.6	< 9.3 U	< 9.3 U	12.5 J	20.7	10
102714002	A1E4		0.5-1.2	10/27/2014	580	179	757	678	709	423	573	715	1,390	386	467	1,610	1,190	18.4
052114002	A1E4		0.5-1.4	05/21/2014	751	163	566	456	452	322	343	449	1,140	461	642	1,440	894	16
052114010	A1F2		0-0.5	05/21/2014	< 10.3 U	< 9.2 U	12.7 J	42.1	51.6	49	54	63.9	122	< 10.3 U	< 10.3 U	58.8	97	19.2
102714010	A1F2		0-0.5	10/27/2014	< 9.6 U	< 8.6 U	< 10 U	6.7 J	9.9 J	< 9.6 U	< 10.7 U	11.9 J	18.1 J	< 9.6 U	< 9.6 U	< 9.6 U	15.0 J	13.4
052114011	A1F2		0.5-1.3	05/21/2014	49.7	18.5 J	71	51.6	51.8	38.6	42.2	56.6	124	29	31.6	100	110	15.2
102714011	A1F2		0.5-1.4	10/27/2014	< 9.7 U	< 8.7 U	< 10.0 U	< 6.7 U	< 6.9 U	< 9.7 U	< 10.7 U	< 8.9 U	< 9.7 U	< 9.7 U	< 9.7 U	< 9.7 U	< 9.7 U	13.9
052114008	A1F3		0-0.5	05/21/2014	< 9.3 U	< 8.3 U	< 9.7 U	7.1 J	8.7 J	< 9.3 U	< 10.3 U	10.3 J	19.7	< 9.3 U	< 9.3 U	10 J	15.7 J	10.5
102714008	A1F3		0-0.5	10/27/2014	12.0 J	< 9.6 U	19.5 J	55.2	64.6	57.1	66.4	78.3	152	< 10.7 U	23.6	79.6	120	22
102714009	A1F3		0.5-1.25	10/27/2014	3,630	894	3,690	2,820	2,850	1,790	2,290	2,920	6,860	2,340	13,600	9,220	5,510	24.4
052114009	A1F3		0.5-1.3	05/21/2014	< 9.8 U	< 8.8 U	< 10.2 U	16.3 J	20.4	20.6	20.5	24.5	47	< 9.8 U	< 9.8 U	20.4	34.9	15.2

[O:ECK 7/1/16, C:SGW 7/6/16, QA: ANS 7/8/16]

Notes:

- < = Concentration is less than reported limit
- U = Concentration was not detected above the reported limit
- J = Estimated concentration at or above the LOD and below the Limit of Quantitation (LOQ)
- µg/kg = micrograms per kilogram

**Table 6. Sample Key for City of Marinette**

**November 2013 through 2016 Sample Results Notification  
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant  
 Marinette, Wisconsin  
 BRRTS# 023800047**

PACE Lab Report	STAT Analysis Lab Report	META Lab Report	9_digit_code	Validator Changes	Location ID Name	Duplicate of	Depth (feet)	Matrix	Date
--	14040335	--	040314001	X	SG01	--	3.5 - 4	Air - Soil Vapor	04/03/2014
--	14040335	--	040314002	X	DUP01	SG01	3.5 - 4	Air - Soil Vapor	04/03/2014
--	14040335	--	040314003	X	SG02	--	4 - 4.5	Air - Soil Vapor	04/03/2014
--	14040335	--	040314004	--	SG02A	--	3 - 3.5	Air - Soil Vapor	04/03/2014
--	14040335	--	040314005	X	SG17D	--	2 - 2.5	Air - Soil Vapor	04/03/2014
--	14040335	--	040314006	X	SG17SS	--	subslab	Air - Soil Vapor	04/03/2014
--	14040335	--	040314007	X	DUP02	SG17SS	subslab	Air - Soil Vapor	04/03/2014
--	14040335	--	040314008	X	SG18D	--	2 - 2.5	Air - Soil Vapor	04/03/2014
--	14040335	--	040314009	X	SG18SS	--	subslab	Air - Soil Vapor	04/03/2014
--	14040335	--	040314010	X	SG19SS	--	subslab	Air - Soil Vapor	04/03/2014
--	14080238	--	080414001	--	SG18D	--	2 - 2.5	Air - Soil Vapor	08/04/2014
--	14080238	--	080414002	--	SG02	--	4 - 4.5	Air - Soil Vapor	08/04/2014
--	14080238	--	080414003	--	SG18SS	--	subslab	Air - Soil Vapor	08/04/2014
--	14080238	--	080514001	--	SG01	--	3.5 - 4	Air - Soil Vapor	08/05/2014
--	14080238	--	080514002	--	SG02A	--	3 - 3.5	Air - Soil Vapor	08/05/2014
--	14080238	--	080514003	--	DUP01	SG02A	3 - 3.5	Air - Soil Vapor	08/05/2014
--	14080238	--	080514004	--	SG19SS	--	subslab	Air - Soil Vapor	08/05/2014
--	14080238	--	080514005	--	SG17SS	--	subslab	Air - Soil Vapor	08/05/2014
--	14080238	--	080514006	--	SG17D	--	2 - 2.5	Air - Soil Vapor	08/05/2014
4095262	--	--	042314001	X	MW312	--	--	Groundwater	04/23/2014
4095262	--	--	042314002	X	MW01R	--	--	Groundwater	04/23/2014
4095262	--	--	042314003	--	MW307R	--	--	Groundwater	04/23/2014
4095262	--	--	042314004	X	MW305	--	--	Groundwater	04/23/2014
4095262	--	--	042314005	--	QC1	MW305	--	Groundwater	04/23/2014
4095262	--	--	042314006	--	MW302	--	--	Groundwater	04/23/2014
4095262	--	--	042314007	--	MW304	--	--	Groundwater	04/23/2014
4095262	--	--	042314008	--	MW303	--	--	Groundwater	04/23/2014
4095262	--	--	042314009	--	MW313	--	--	Groundwater	04/23/2014
4095262	--	--	042314010	X	MW308	--	--	Groundwater	04/23/2014
4095262	--	--	042314011	--	MW311	--	--	Groundwater	04/23/2014
4095262	--	--	042414013	--	MW05	--	--	Groundwater	04/24/2014
4095262	--	--	042414014	--	QC2	MW05	--	Groundwater	04/24/2014
4095262	--	--	042414015	--	MW03R	--	--	Groundwater	04/24/2014
4095262	--	--	042414016	--	MW310	--	--	Groundwater	04/24/2014
40106123	--	--	102714001	--	MW312	--	--	Groundwater	10/27/2014
40106123	--	--	102714002	--	MW01R	--	--	Groundwater	10/27/2014
40106123	--	--	102814003	--	MW307R	--	--	Groundwater	10/28/2014
40106123	--	--	102814004	--	MW310	--	--	Groundwater	10/28/2014
40106123	--	--	102814005	--	QC1	MW310	--	Groundwater	10/28/2014
40106123	--	--	102814006	--	MW311	--	--	Groundwater	10/28/2014
40106123	--	--	102814007	--	P304	--	--	Groundwater	10/28/2014
40106123	--	--	102814008	--	MW05	--	--	Groundwater	10/28/2014
40106123	--	--	102814009	--	P303	--	--	Groundwater	10/28/2014
40106123	--	--	102814010	--	MW03R	--	--	Groundwater	10/28/2014
40106123	--	--	102814012	--	MW305	--	--	Groundwater	10/28/2014

**Table 6. Sample Key for City of Marinette**

**November 2013 through 2016 Sample Results Notification  
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant  
 Marinette, Wisconsin  
 BRRS# 0238000047**

PACE Lab Report	STAT Analysis Lab Report	META Lab Report	9_digit_code	Validator Changes	Location ID Name	Duplicate of	Depth (feet)	Matrix	Date
40106123	--	--	102814013	--	MW302	--	--	Groundwater	10/28/2014
40106123	--	--	102814014	--	QC2	MW302	--	Groundwater	10/28/2014
40106123	--	--	102814015	--	P302	--	--	Groundwater	10/28/2014
40106123	--	--	102814016	--	MW303	--	--	Groundwater	10/28/2014
40106123	--	--	102814017	--	MW304	--	--	Groundwater	10/28/2014
40106123	--	--	102814018	--	MW313	--	--	Groundwater	10/28/2014
40106123	--	--	102814019	--	P305	--	--	Groundwater	10/28/2014
40106123	--	--	102814020	--	MW308	--	--	Groundwater	10/28/2014
40113122	--	--	041315001	--	MW312	--	--	Groundwater	04/13/2015
40113122	--	--	041315002	--	QC1	MW312	--	Groundwater	04/13/2015
40113122	--	--	041315003	--	MW01R	--	--	Groundwater	04/13/2015
40113122	--	--	041315004	--	MW307R	--	--	Groundwater	04/13/2015
40113122	--	--	041315005	--	MW310	--	--	Groundwater	04/13/2015
40113122	--	--	041315006	--	MW308	--	--	Groundwater	04/13/2015
40113122	--	--	041315007	--	MW305	--	--	Groundwater	04/13/2015
40113122	--	--	041315008	--	MW302	--	--	Groundwater	04/13/2015
40113122	--	--	041315009	--	MW304	--	--	Groundwater	04/13/2015
40113122	--	--	041315010	--	MW303	--	--	Groundwater	04/13/2015
40113122	--	--	041315011	--	MW313	--	--	Groundwater	04/13/2015
40113122	--	--	041415013	--	MW311	--	--	Groundwater	04/14/2015
40113122	--	--	041415014	--	MW05	--	--	Groundwater	04/14/2015
40113122	--	--	041415015	--	QC2	MW05R	--	Groundwater	04/14/2015
40113122	--	--	041415016	--	MW03R	--	--	Groundwater	04/14/2015
40123659	--	--	102615001	--	MW312	--	--	Groundwater	10/26/2015
40123659	--	--	102615002	--	MW01R	--	--	Groundwater	10/26/2015
40123659	--	--	102715003	--	MW310	--	--	Groundwater	10/27/2015
40123659	--	--	102715004	--	MW305	--	--	Groundwater	10/27/2015
40123659	--	--	102715005	--	P302	--	--	Groundwater	10/27/2015
40123659	--	--	102715006	--	QC1	P302	--	Groundwater	10/27/2015
40123659	--	--	102715007	--	MW302	--	--	Groundwater	10/27/2015
40123659	--	--	102715008	--	MW304	--	--	Groundwater	10/27/2015
40123659	--	--	102715009	--	MW303	--	--	Groundwater	10/27/2015
40123659	--	--	102715010	--	MW313	--	--	Groundwater	10/27/2015
40123659	--	--	102715011	--	MW05	--	--	Groundwater	10/27/2015
40123659	--	--	102715013	--	P304	--	--	Groundwater	10/27/2015
40123659	--	--	102715014	--	MW03R	--	--	Groundwater	10/27/2015
40123659	--	--	102715015	--	QC2	MW03R	--	Groundwater	10/27/2015
40123659	--	--	102715016	--	P303	--	--	Groundwater	10/27/2015
40123659	--	--	102715017	--	MW308	--	--	Groundwater	10/27/2015
40123659	--	--	102715018	--	P305	--	--	Groundwater	10/27/2015
40123659	--	--	102715019	--	MW311	--	--	Groundwater	10/27/2015
40123659	--	--	102715020	--	MW307R	--	--	Groundwater	10/27/2015
40130733	--	--	041216001	--	MW305	--	--	Groundwater	04/12/2016
40130733	--	--	041216002	--	MW302	--	--	Groundwater	04/12/2016
40130733	--	--	041216003	--	MW304	--	--	Groundwater	04/12/2016

**Table 6. Sample Key for City of Marinette**

**November 2013 through 2016 Sample Results Notification  
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant  
 Marinette, Wisconsin  
 BRRTS# 0238000047**

PACE Lab Report	STAT Analysis Lab Report	META Lab Report	9_digit_code	Validator Changes	Location ID Name	Duplicate of	Depth (feet)	Matrix	Date
40130733	--	--	041216004	--	MW303	--	--	Groundwater	04/12/2016
40130733	--	--	041216005	--	QC1	MW303	--	Groundwater	04/12/2016
40130733	--	--	041216006	--	MW313	--	--	Groundwater	04/12/2016
40130733	--	--	041216007	--	MW05	--	--	Groundwater	04/12/2016
40130733	--	--	041216008	--	MW308	--	--	Groundwater	04/12/2016
40130733	--	--	041216009	--	MW03R	--	--	Groundwater	04/12/2016
40130733	--	--	041216010	--	QC2	MW03R	--	Groundwater	04/12/2016
40130733	--	--	041316012	--	MW307R	--	--	Groundwater	04/13/2016
40130733	--	--	041316013	--	MW311	--	--	Groundwater	04/13/2016
40130733	--	--	041316014	--	MW310	--	--	Groundwater	04/13/2016
40130733	--	--	041316015	--	MW312	--	--	Groundwater	04/13/2016
40130733	--	--	041316016	--	MW01R	--	--	Groundwater	04/13/2016
4096754	--	--	052114001	--	A1E4	--	0 - 0.5	Sand Cap	05/21/2014
4096754	--	--	052114002	--	A1E4	--	0.5 - 1.4	Sand Cap	05/21/2014
4096754	--	--	052114003	--	A1B33	--	0 - 0.5	Sand Cap	05/21/2014
4096754	--	--	052114004	--	A1B33	--	0.5 - 1.3	Sand Cap	05/21/2014
4096754	--	--	052114005	--	A1B35	--	0 - 0.5	Sand Cap	05/21/2014
4096754	--	--	052114006	--	A1B35	--	0.5 - 1.5	Sand Cap	05/21/2014
4096754	--	--	052114007	--	DUP01	A1B35	0.5 - 1.5	Sand Cap	05/21/2014
4096754	--	--	052114008	--	A1F3	--	0 - 0.5	Sand Cap	05/21/2014
4096754	--	--	052114009	--	A1F3	--	0.5 - 1.3	Sand Cap	05/21/2014
4096754	--	--	052114010	--	A1F2	--	0 - 0.5	Sand Cap	05/21/2014
4096754	--	--	052114011	--	A1F2	--	0.5 - 1.3	Sand Cap	05/21/2014
40106030	--	--	102714001	--	A1E4	--	0 - 0.5	Sand Cap	10/27/2014
40106030	--	--	102714002	--	A1E4	--	0.5 - 1.2	Sand Cap	10/27/2014
40106030	--	--	102714003	--	A1B33	--	0 - 0.5	Sand Cap	10/27/2014
40106030	--	--	102714004	--	A1B33	--	0.5 - 1.5	Sand Cap	10/27/2014
40106030	--	--	102714005	--	Dup 01	A1B33	0.5 - 1.5	Sand Cap	10/27/2014
40106030	--	--	102714006	--	A1B35	--	0 - 0.5	Sand Cap	10/27/2014
40106030	--	--	102714007	--	A1B35	--	0.5 - 1.35	Sand Cap	10/27/2014
40106030	--	--	102714008	--	A1F3	--	0 - 0.5	Sand Cap	10/27/2014
40106030	--	--	102714009	--	A1F3	--	0.5 - 1.25	Sand Cap	10/27/2014
40106030	--	--	102714010	--	A1F2	--	0 - 0.5	Sand Cap	10/27/2014
40106030	--	--	102714011	--	A1F2	--	0.5 - 1.4	Sand Cap	10/27/2014
--	--	MC34273	100914100	X	SB355	--	2 - 4	Soil - Forensics	10/09/2014
--	--	MC34273	100914101	--	SB353	--	3 - 5	Soil - Forensics	10/09/2014
--	--	MC34273	100914102	X	SB353	--	5 - 7	Soil - Forensics	10/09/2014
--	--	MC34273	100914103	X	SB357	--	3 - 5	Soil - Forensics	10/09/2014
--	--	MC34273	100914104	X	DUP	SB357	3 - 5	Soil - Forensics	10/09/2014
--	--	MC34273	101014214	--	SB361	--	0 - 2	Soil - Forensics	10/10/2014

**Table 6. Sample Key for City of Marinette**

**November 2013 through 2016 Sample Results Notification**  
**Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant**  
**Marinette, Wisconsin**  
**BRRTS# 0238000047**

PACE Lab Report	STAT Analysis Lab Report	META Lab Report	9_digit_code	Validator Changes	Location ID Name	Duplicate of	Depth (feet)	Matrix	Date
40105126	--	--	100914105	--	SB355	--	2 - 4	Soil	10/09/2014
40105126	--	--	100914106	--	SB352	--	3 - 5	Soil	10/09/2014
40105126	--	--	100914107	--	DUP	SB352	3 - 5	Soil	10/09/2014
40105126	--	--	100914108	--	SB353	--	3 - 5	Soil	10/09/2014
40105126	--	--	100914109	--	SB353	--	5 - 7	Soil	10/09/2014
40105126	--	--	100914110	--	SB354	--	3 - 5	Soil	10/09/2014
40105126	--	--	100914111	--	SB357	--	3 - 5	Soil	10/09/2014
40105127	--	--	100914200	--	SB367	--	0 - 2	Soil	10/09/2014
40105127	--	--	100914201	--	SB368	--	0 - 2	Soil	10/09/2014
40105127	--	--	100914202	X	SB366	--	0 - 2	Soil	10/09/2014
40105127	--	--	100914203	X	QA/QC	SB366	0 - 2	Soil	10/09/2014
40105127	--	--	100914204	--	SB362	--	0 - 2	Soil	10/09/2014
40105127	--	--	100914205	--	SB365	--	0 - 2	Soil	10/09/2014
40105127	--	--	100914206	--	SB369	--	0 - 2	Soil	10/09/2014
40105127	--	--	100914207	--	SB370	--	0 - 2	Soil	10/09/2014
40105127	--	--	101014208	--	SB364	--	0 - 2	Soil	10/10/2014
40105127	--	--	101014209	--	SB363	--	0 - 2	Soil	10/10/2014
40105127	--	--	101014210	--	SB358	--	0 - 2	Soil	10/10/2014
40105127	--	--	101014211	--	SB359	--	0 - 1.7	Soil	10/10/2014
40105127	--	--	101014212	--	SB360	--	0 - 2	Soil	10/10/2014
40105127	--	--	101014214	--	SB361	--	0 - 2	Soil	10/10/2014

[O:ECK 7/5/16,C:SGW 7/6/16][U:ECK 7/8/16, QA: ANS 7/11/16][U:ECK 7/15/16 QA: KRM 7/18/16]

Notes:

Sorted by: Matrix, Lab Report #, 9-digit code, Location Name, Depth and Date

QA/QC = Quality Control Field Duplicate Sample

QC = Quality Control Field Duplicate Sample

DUP = Quality Control Field Duplicate Sample

Result values/flags may differ from lab report values/flags due to changes applied in 3<sup>rd</sup> party validation report.



Table 1. Summary of Groundwater Results for City of Marinette

October 2016 Sample Results Notification  
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant  
 Marinette, Wisconsin  
 BRRTS# 0238000047 USEPA# : WIN000509949

Field Sample ID	Sample Location	Sample Date	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	
			1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Acenaphthene (µg/L)	Acenaphthylene (µg/L)	Anthracene (µg/L)	Benzo(a)anthracene (µg/L)	Benzo(a)pyrene (µg/L)	Benzo(b)fluoranthene (µg/L)	Benzo(g,h,i)perylene (µg/L)	Benzo(k)fluoranthene (µg/L)	Chrysene (µg/L)	Dibenz(a,h)anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Indeno(1,2,3-cd)pyrene (µg/L)	Naphthalene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)	PAH, Total (µg/L)
<i>Wisconsin Groundwater PAL:</i>			<i>NS</i>	<i>NS</i>	<i>NS</i>	<i>NS</i>	<i>600</i>	<i>NS</i>	<i>0.02</i>	<i>0.02</i>	<i>NS</i>	<i>NS</i>	<i>0.02</i>	<i>NS</i>	<i>80</i>	<i>80</i>	<i>NS</i>	<i>10</i>	<i>NS</i>	<i>50</i>	<i>NS</i>
<i>Wisconsin Groundwater ES:</i>			<i>NS</i>	<i>NS</i>	<i>NS</i>	<i>NS</i>	<i>3,000</i>	<i>NS</i>	<i>0.2</i>	<i>0.2</i>	<i>NS</i>	<i>NS</i>	<i>0.2</i>	<i>NS</i>	<i>400</i>	<i>400</i>	<i>NS</i>	<i>100</i>	<i>NS</i>	<i>250</i>	<i>NS</i>
0101816001	MW312	10/18/2016	0.039	0.020 J	0.24	0.016 J	0.043 J	< 0.0072 U	< 0.010 U	0.013 J	0.0073 J	< 0.0072 U	0.019 J	< 0.0095 U	0.095	0.16	< 0.017 U	0.046 J	0.073	0.080	0.89
0101816002	MW305	10/18/2016	< 0.0058 U	< 0.0048 U	< 0.0060 U	< 0.0049 U	< 0.010 U	< 0.0074 U	< 0.010 U	< 0.0056 U	< 0.0066 U	< 0.0074 U	< 0.013 U	< 0.0098 U	< 0.010 U	< 0.0078 U	< 0.017 U	< 0.018 U	< 0.014 U	< 0.0075 U	0.044
0101816003	P302	10/18/2016	< 0.0058 U	< 0.0049 U	< 0.0060 U	0.0091 J	< 0.010 U	0.013 J	< 0.010 U	0.0090 J	< 0.0067 U	< 0.0075 U	0.016 J	< 0.0099 U	0.025 J	< 0.0079 U	< 0.017 U	< 0.018 U	0.022 J	0.031 J	0.17
0101816004	MW302	10/18/2016	< 0.0057 U	0.0052 J	< 0.0058 U	< 0.0048 U	< 0.010 U	< 0.0073 U	< 0.010 U	< 0.0055 U	< 0.0065 U	< 0.0073 U	< 0.013 U	< 0.0096 U	< 0.010 U	< 0.0077 U	< 0.017 U	0.019 J	< 0.013 U	< 0.0074 U	0.044
0101816005	MW304	10/18/2016	0.046	< 0.0048 U	0.081	0.062	0.089	< 0.0073 U	< 0.010 U	0.0068 J	< 0.0066 U	< 0.0073 U	< 0.013 U	< 0.0097 U	0.018 J	< 0.0077 U	< 0.017 U	0.063 J	< 0.013 U	0.015 J	0.41
0101816006	MW304 QA/QC1	10/18/2016	0.036	< 0.0048 U	0.072	0.056	0.094	< 0.0074 U	< 0.010 U	< 0.0056 U	< 0.0066 U	< 0.0074 U	< 0.013 U	< 0.0098 U	0.015 J	< 0.0078 U	< 0.017 U	0.041 J	< 0.014 U	0.0088 J	0.34
0101816007	MW303	10/18/2016	< 0.0057 U	0.0051 J	0.062	0.0076 J	0.017 J	< 0.0073 U	< 0.010 U	< 0.0056 U	< 0.0066 U	< 0.0073 U	< 0.013 U	< 0.0097 U	< 0.010 U	< 0.0077 U	< 0.017 U	< 0.018 U	< 0.013 U	0.028 J	0.16
0101816008	MW313	10/18/2016	0.023 J	0.0098 J	0.13	0.0065 J	0.034 J	< 0.0075 U	< 0.010 U	< 0.0057 U	< 0.0067 U	< 0.0075 U	< 0.013 U	< 0.0099 U	0.028 J	0.038 J	< 0.017 U	0.092	0.019 J	0.022 J	0.40
0101816009	MW05	10/18/2016	< 0.0056 U	0.0075 J	< 0.0058 U	< 0.0047 U	< 0.010 U	< 0.0072 U	< 0.010 U	< 0.0055 U	< 0.0065 U	< 0.0072 U	< 0.012 U	< 0.0095 U	< 0.010 U	< 0.0076 U	< 0.017 U	< 0.017 U	< 0.013 U	0.0089 J	0.050
0101816010	MW03R	10/18/2016	< 0.0058 U	< 0.0049 U	< 0.0060 U	< 0.0049 U	0.016 J	< 0.0075 U	< 0.010 U	< 0.0057 U	< 0.0067 U	< 0.0075 U	< 0.013 U	< 0.0099 U	< 0.011 U	< 0.0079 U	< 0.017 U	< 0.018 U	< 0.014 U	0.011 J	0.052
0101816011	P303	10/18/2016	< 0.0057 U	0.0056 J	< 0.0058 U	0.0086 J	0.016 J	< 0.0073 U	< 0.010 U	0.011 J	0.0068 J	0.0075 J	0.018 J	< 0.0096 U	0.013 J	< 0.0077 U	< 0.017 U	< 0.018 U	0.014 J	0.016 J	0.14
0101816012	MW308	10/18/2016	< 0.0057 U	0.0059 J	< 0.0059 U	< 0.0048 U	< 0.010 U	< 0.0073 U	< 0.010 U	< 0.0056 U	< 0.0066 U	< 0.0073 U	< 0.013 U	< 0.0097 U	< 0.010 U	< 0.0077 U	< 0.017 U	< 0.018 U	< 0.013 U	< 0.0074 U	0.057
0101816013	P305	10/18/2016	4.3	0.047	13.0	0.46	0.083	< 0.0074 U	< 0.010 U	< 0.0056 U	< 0.0066 U	< 0.0074 U	< 0.013 U	< 0.0098 U	0.52	0.91	< 0.017 U	4.8	0.20	0.41	24.7
0101816016	P304	10/18/2016	< 0.0053 U	< 0.0044 U	< 0.0055 U	< 0.0045 U	0.011 J	< 0.0068 U	< 0.0095 U	< 0.0052 U	< 0.0061 U	< 0.0068 U	< 0.012 U	< 0.0090 U	< 0.0096 U	< 0.0072 U	< 0.016 U	< 0.017 U	< 0.012 U	0.012 J	0.060
0101816017	MW311	10/18/2016	103	26.5	65.9	1.4	4.0	< 0.076 U	< 0.11 U*	< 0.057 U*	< 0.068 U	< 0.076 U	<u>0.15 J</u>	< 0.10 U	2.2	18.7	< 0.18 U	<b>578</b>	19.5	2.0	822
0101816018	MW307R	10/18/2016	0.39	0.026	1.7	0.085	0.092	< 0.0076 U	< 0.011 U	0.0068 J	< 0.0068 U	< 0.0076 U	<u>0.026 J</u>	< 0.010 U	0.22	0.40	< 0.018 U	0.10	0.30	0.23	3.6
0101916019	MW310	10/19/2016	0.30	0.022 J	3.7	0.099	0.090	< 0.0073 U	< 0.010 U	<u>0.021 J</u>	0.0097 J	0.010 J	0.016 J	< 0.0096 U	0.12	0.94	< 0.017 U	1.1	0.041 J	0.11	6.6
0101916020	MW01R	10/19/2016	< 0.0059 U	< 0.0049 U	0.016 J	< 0.0050 U	< 0.010 U	< 0.0076 U	< 0.011 U	< 0.0057 U	< 0.0068 U	< 0.0076 U	< 0.013 U	< 0.010 U	< 0.011 U	< 0.0080 U	< 0.018 U	< 0.018 U	< 0.014 U	0.013 J	0.080
0101916021	Equipment Blank	10/19/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0101916022	Trip Blank	10/19/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes  
*Italic Underline = result meets or exceeds WDNR PAL*  
**BOLD = result meets or exceeds WDNR ES**  
 < = Concentration is less than reported limit  
 -- = Analysis not performed  
 NS = No Standard  
 QA/QC = Quality Control Field Duplicate sample  
 BETX = benzene, toluene, ethylbenzene and xylenes  
 PAH = polycyclic aromatic hydrocarbons  
 mg/L = milligrams per liter  
 µg/L = micrograms per liter

Total PAHs and Total Xylenes results were calculated by the laboratory.  
 \* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria  
 J = Indicates an estimated value.  
 U = Analyzed for but was not detected above the reported limit.  
 Lab comments and definitions can be found in associated laboratory and validation reports  
 ES = Enforcement Standard  
 PAL = Preventive Action Limit  
 PAL and ES from WI Administrative Code NR 140 Groundwater Quality Standard revised effective July 2015.

Table 1. Summary of Groundwater Results for City of Marinette

October 2016 Sample Results Notification  
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant  
 Marinette, Wisconsin  
 BRRTS# 0238000047 USEPA# : WIN000509949

Field Sample ID	Sample Location	Sample Date	BTEX Benzene (µg/L)	BTEX Ethylbenzene (µg/L)	BTEX Toluene (µg/L)	BTEX Xylenes, m + p (µg/L)	BTEX Xylene, o (µg/L)	BTEX Xylenes, Total (µg/L)	Metal Aluminum, Dissolved (µg/L)	Metal Antimony, Dissolved (µg/L)	Metal Copper, Dissolved (µg/L)	Metal Nickel, Dissolved (µg/L)	Metal Silver, Dissolved (µg/L)	Metal Vanadium, Dissolved (µg/L)	Metal Zinc, Dissolved (µg/L)	Inorganic Alkalinity, Total (mg/L)	Inorganic Iron, Dissolved (µg/L)	Inorganic Manganese, Dissolved (µg/L)	Inorganic Methane (µg/L)	Inorganic Nitrogen, NO2 + NO3, Total (mg/L)	Inorganic Sulfate, Total (mg/L)
<i>Wisconsin Groundwater PAL:</i>			<i>0.5</i>	<i>140</i>	<i>160</i>	<i>NS</i>	<i>NS</i>	<i>400</i>	<i>40</i>	<i>1.2</i>	<i>130</i>	<i>20</i>	<i>10</i>	<i>6</i>	<i>2,500</i>	<i>NS</i>	<i>150</i>	<i>25</i>	<i>NS</i>	<i>2</i>	<i>125</i>
<i>Wisconsin Groundwater ES:</i>			<i>5</i>	<i>700</i>	<i>800</i>	<i>NS</i>	<i>NS</i>	<i>2,000</i>	<i>200</i>	<i>6</i>	<i>1,300</i>	<i>100</i>	<i>50</i>	<i>30</i>	<i>5,000</i>	<i>NS</i>	<i>300</i>	<i>50</i>	<i>NS</i>	<i>10</i>	<i>250</i>
0101816001	MW312	10/18/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.29 J	0.34 J	1.1	< 0.016 U	1.2	< 3.1 U	388	<b>9,970</b>	<b>659</b>	7,330	< 0.095 U	< 10.0 U
0101816002	MW305	10/18/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.10 J	3.6	1.3	< 0.016 U	0.28 J	7.7 J	298	<b>246 J</b>	0.69 J	1.9 J	<b>12.4</b>	<b>159</b>
0101816003	P302	10/18/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	< 0.073 U	2.2	1.4	< 0.016 U	1.1	4.6 J	265	<b>1,090</b>	<b>487</b>	23.9	< 0.095 U	61.3
0101816004	MW302	10/18/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.40 J	6.5	2.6	< 0.016 U	0.42 J	7.7 J	290	21.4 J	1.2	< 1.4 U	<b>4.3</b>	60.7
0101816005	MW304	10/18/2016	<b>14.1</b>	1.3	0.64 J	< 1.0 U	1.2	1.8 J	< 68.7 U*	<b>2.8</b>	1.9	4.3	< 0.016 U	2.0	4.0 J	324	<b>271</b>	<b>1,960</b>	159	0.096 J	89.8
0101816006	MW304 QA/QC1	10/18/2016	<b>12.4</b>	1.2	0.53 J	< 1.0 U	1.2	1.7 J	< 68.7 U*	<b>3.0</b>	1.6	3.6	< 0.016 U	2.1	< 3.1 U	431	<b>280</b>	<b>2,040</b>	200	0.10 J	90.6
0101816007	MW303	10/18/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.32 J	1.7	3.1	< 0.016 U	1.2	3.2 J	510	<b>8,850</b>	<b>1,240</b>	671	0.19 J	27.5
0101816008	MW313	10/18/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.29 J	1.1	7.1	< 0.016 U	3.9	6.6 J	419	<b>11,800</b>	<b>721</b>	3,050	< 0.095 U	22.0
0101816009	MW05	10/18/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	< 0.073 U	2.9	2.5	< 0.016 U	0.20 J	3.3 J	321	28.4 J	<b>1,310</b>	< 1.4 U	<b>7.3</b>	<b>210</b>
0101816010	MW03R	10/18/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.77 J	8.7	3.3	0.032 J	2.3	21.6	263	21.0 J	<b>35.1</b>	27.2	<b>3.3</b>	65.2
0101816011	P303	10/18/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	< 0.073 U	1.4	1.4	< 0.016 U	0.80 J	< 3.1 U	144	15.1 J	1.0	< 1.4 U	0.33	<b>839</b>
0101816012	MW308	10/18/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.19 J	7.1	17.9	0.021 J	1.0	166	503	<b>4,010</b>	<b>2,970</b>	11.4	0.33	<b>462</b>
0101816013	P305	10/18/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	< 0.073 U	0.27 J	1.5	< 0.016 U	2.3	6.6 J	424	<b>3,780</b>	<b>701</b>	684	< 0.095 U	5.5 J
0101816016	P304	10/18/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.22 J	1.8	1.1	< 0.016 U	0.78 J	8.0 J	170	60.6 J	7.2	< 1.4 U	1.9	<b>589</b>
0101816017	MW311	10/18/2016	<b>178</b>	103	7.7 J	11.9 J	58.0	69.9	< 68.7 U*	< 0.073 U	0.46 J	2.4	< 0.016 U	4.0	22.3	847	<b>28,500</b>	<b>1,130</b>	9,520	< 0.095 U	< 5.0 U
0101816018	MW307R	10/18/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	< 0.073 U	0.29 J	1.5	< 0.016 U	0.30 J	< 3.1 U	407	<b>34,700</b>	<b>512</b>	13,300	< 0.095 U	< 5.0 U
0101916019	MW310	10/19/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.097 J	0.30 J	2.0	< 0.016 U	5.3	< 3.1 U	368	<b>29,300</b>	<b>1,480</b>	3,820	< 0.095 U	7.6 J
0101916020	MW01R	10/19/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.18 J	0.39 J	1.4	< 0.016 U	1.0	4.3 J	412	<b>7,980</b>	<b>887</b>	12,100	< 0.095 U	< 5.0 U
0101916021	Equipment Blank	10/19/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--
0101916022	Trip Blank	10/19/2016	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--

[O:ECK 2/8/2017, C: SGW 2/9/17, QA: DJV 2/9/17]

Notes

*Italic Underline = result meets or exceeds WDNR PAL*

**BOLD = result meets or exceeds WDNR ES**

< = Concentration is less than reported limit

-- = Analysis not performed

NS = No Standard

QA/QC = Quality Control Field Duplicate sample

BTEX = benzene, toluene, ethylbenzene and xylenes

PAH = polycyclic aromatic hydrocarbons

mg/L = milligrams per liter

µg/L = micrograms per liter

Total PAHs and Total Xylenes results were calculated by the laboratory.

\* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria

J = Indicates an estimated value.

U = Analyzed for but was not detected above the reported limit.

Lab comments and definitions can be found in associated laboratory and validation reports

ES = Enforcement Standard

PAL = Preventive Action Limit

PAL and ES from WI Administrative Code NR 140 Groundwater Quality Standard revised effective July 2015.

**Table 2. Sample Key for City of Marinette**

**October 2016 Sample Results Notification**  
**Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant**  
**Marinette, Wisconsin**  
**BRRTS# 0238000047 USEPA# : WIN000509949**

<b>PACE Lab_Report</b>	<b>Field Sample ID</b>	<b>Sample Location</b>	<b>Duplicate of</b>	<b>Matrix</b>	<b>Date</b>
40140378	0101916021	Equipment Blank	--	Groundwater	10/19/2016
40140378	0101916020	MW01R	--	Groundwater	10/19/2016
40140378	0101816010	MW03R	--	Groundwater	10/18/2016
40140378	0101816009	MW05	--	Groundwater	10/18/2016
40140378	0101816004	MW302	--	Groundwater	10/18/2016
40140378	0101816007	MW303	--	Groundwater	10/18/2016
40140378	0101816005	MW304	--	Groundwater	10/18/2016
40140378	0101816006	MW304 QA/QC1	MW304	Groundwater	10/18/2016
40140378	0101816002	MW305	--	Groundwater	10/18/2016
40140378	0101816018	MW307R	--	Groundwater	10/18/2016
40140378	0101816012	MW308	--	Groundwater	10/18/2016
40140378	0101916019	MW310	--	Groundwater	10/19/2016
40140378	0101816017	MW311	--	Groundwater	10/18/2016
40140378	0101816001	MW312	--	Groundwater	10/18/2016
40140378	0101816008	MW313	--	Groundwater	10/18/2016
40140378	0101816003	P302	--	Groundwater	10/18/2016
40140378	0101816011	P303	--	Groundwater	10/18/2016
40140378	0101816016	P304	--	Groundwater	10/18/2016
40140378	0101816013	P305	--	Groundwater	10/18/2016
40140378	0101916022	Trip Blank	--	Groundwater	10/19/2016

[O:ECK 02/08/17, C:SGW 2/9/17, QA:DJV 2/9/17]

**Notes:**

*Sorted by: Matrix, Lab Report #, 9-digit code, Location Name, Depth and Date*

QC = Quality Control Field Duplicate Sample

Table 1. Summary of Groundwater Results for City of Marinette

April 2017 Sample Results Notification  
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant  
 Marinette, Wisconsin  
 BRRTS# 0238000047  
 CERCLIS ID -WIN000509952

Sample Location	Sample Date	TPAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	
		PAH, Total	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
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)
<i>WI Groundwater PAL:</i>		NS	NS	NS	NS	NS	<u>600</u>	NS	<u>0.02</u>	<u>0.02</u>	NS	NS	<u>0.02</u>	NS	<u>80</u>	<u>80</u>	NS	<u>10</u>	NS	<u>50</u>
<b>WI Groundwater ES:</b>		NS	NS	NS	NS	NS	<b>3,000</b>	NS	<b>0.2</b>	<b>0.2</b>	NS	NS	<b>0.2</b>	NS	<b>400</b>	<b>400</b>	NS	<b>100</b>	NS	<b>250</b>
040317001 MW305	04/03/2017	0.046	< 0.0059 U	0.0050 J	< 0.0061 U	< 0.0050 U	< 0.010 U	< 0.0076 U	< 0.011 U	< 0.0057 U	< 0.0068 U	< 0.0076 U	< 0.013 U	< 0.010 U	< 0.011 U	< 0.0080 U	< 0.018 U	< 0.018 U	< 0.014 U	< 0.0076 U
040317002 MW302	04/03/2017	0.14	< 0.0066 U	< 0.0054 U	< 0.0067 U	< 0.0055 U	< 0.012 U	< 0.0084 U	< 0.012 U	0.011 J	< 0.0075 U	< 0.0084 U	< 0.014 U	< 0.011 U	0.019 J	< 0.0089 U	< 0.020 U	< 0.020 U	0.023 J	0.023 J
040317003 MW304	04/03/2017	18.8	1.3	0.053	0.93	0.064	0.065	< 0.0088 U	< 0.012 U	< 0.0067 U	< 0.0079 U	< 0.0088 U	< 0.015 U	< 0.012 U	< 0.012 U	0.016 J	< 0.021 U	<u>16.3</u>	0.017 J	< 0.0089 U
040317004 MW304 QA/QC1	04/03/2017	17.3	1.2	0.027 J	0.87	0.06	0.072	< 0.0086 U	< 0.012 U	< 0.0065 U	< 0.0077 U	< 0.0086 U	< 0.015 U	< 0.011 U	< 0.012 U	0.013 J	< 0.020 U	<u>15</u>	0.018 J	< 0.0087 U
040317005 MW303	04/03/2017	0.23	0.011 J	0.012 J	0.027 J	0.0066 J	0.033 J	< 0.0080 U	< 0.011 U	0.014 J	0.0084 J	0.012 J	< 0.014 U	< 0.011 U	0.012 J	< 0.0085 U	< 0.019 U	0.039 J	0.019 J	0.022 J
040317006 MW313	04/03/2017	0.16	0.0084 J	< 0.0049 U	0.026 J	< 0.0050 U	0.020 J	< 0.0076 U	< 0.011 U	0.0096 J	< 0.0068 U	< 0.0076 U	< 0.013 U	< 0.010 U	0.011 J	< 0.0081 U	< 0.018 U	0.037 J	< 0.014 U	0.0090 J
040317007 MW05	04/03/2017	0.037	< 0.0058 U	< 0.0049 U	< 0.0060 U	< 0.0049 U	< 0.010 U	< 0.0075 U	< 0.010 U	< 0.0057 U	< 0.0067 U	< 0.0075 U	< 0.013 U	< 0.0099 U	< 0.011 U	< 0.0079 U	< 0.017 U	< 0.018 U	< 0.014 U	< 0.0076 U
040317008 MW308	04/03/2017	0.059	< 0.0066 U	< 0.0054 U	< 0.0067 U	< 0.0055 U	< 0.012 U	< 0.0084 U	< 0.012 U	0.0072 J	< 0.0075 U	< 0.0084 U	< 0.014 U	< 0.011 U	< 0.012 U	< 0.0089 U	< 0.020 U	< 0.020 U	< 0.015 U	0.0098 J
040317009 MW308 QA/QC2	04/03/2017	0.053	< 0.0062 U	0.0067 J	< 0.0064 U	< 0.0052 U	< 0.011 U	< 0.0079 U	< 0.011 U	< 0.0060 U	< 0.0071 U	< 0.0079 U	< 0.014 U	< 0.011 U	< 0.011 U	< 0.0084 U	< 0.019 U	0.022 J	< 0.015 U	< 0.0081 U
040317010 MW03R	04/03/2017	0.15	< 0.0066 U	< 0.0055 U	0.0071 J	< 0.0056 U	0.018 J	< 0.0085 U	< 0.012 U	0.015 J	0.010 J	0.014 J	< 0.015 U	< 0.011 U	0.016 J	< 0.0090 U	< 0.020 U	< 0.021 U	< 0.015 U	0.021 J
040417012 MW307R	04/04/2017	3.1	0.21	0.0068 J	1.6	0.066	0.09	< 0.0078 U	0.013 J	<u>0.033</u>	0.017 J	0.029 J	<u>0.048 J</u>	< 0.010 U	0.21	0.26	< 0.018 U	0.073 J	0.22	0.2
040417013 MW311	04/04/2017	884	90.6	25.2	81.1	1.5	5.3	< 0.39 U	< 0.54 U*	< 0.30 U*	< 0.35 U	< 0.39 U	< 0.67 U*	< 0.52 U	1.9 J	17.1	< 0.91 U	<u>640</u>	20	1.9 J
040417014 MW310	04/04/2017	6.3	0.24	0.0088 J	4.2	0.058	0.084	< 0.0084 U	< 0.012 U	< 0.0064 U	< 0.0075 U	< 0.0084 U	< 0.014 U	< 0.011 U	0.094	1.1	< 0.020 U	0.23	0.060 J	0.08
040417015 MW312	04/04/2017	0.44	0.022 J	0.011 J	0.17	0.0096 J	0.030 J	< 0.0083 U	< 0.012 U	< 0.0063 U	< 0.0075 U	< 0.0083 U	< 0.014 U	< 0.011 U	0.038 J	0.054	< 0.019 U	0.038 J	0.017 J	0.046
040417016 MW01R	04/04/2017	0.051	< 0.0061 U	< 0.0051 U	0.0082 J	< 0.0052 U	< 0.011 U	< 0.0079 U	< 0.011 U	< 0.0060 U	< 0.0071 U	< 0.0079 U	< 0.014 U	< 0.010 U	< 0.011 U	< 0.0083 U	< 0.018 U	0.021 J	< 0.014 U	0.0082 J

Notes:  
 -- = Analysis not performed  
 < = Concentration is less than reported limit  
 J = Estimated concentration at or above the LOD and below the LOQ.  
 U = Not detected  
 Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.  
 \* = Level of Detection (LOD) meets or exceeds the Pal and/or the ES Groundwater Criteria

*Italic Underline = concentration that attains or exceeds WDNR PAL*  
**BOLD = concentration that attains or exceeds WDNR ES**  
 ES = Enforcement Standard  
 PAL = Preventive Action Limit  
 PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.  
 NS = A groundwater quality standard has not been established.

µg/L = micrograms per liter  
 mg/L = milligrams per liter  
 QA/QC = Quality Control Field Duplicate Sample  
 BTEX = Benzene, Toluene, Ethylbenzene and Xylene  
 PAH = Polycyclic Aromatic Hydrocarbon  
 NO2 + NO3 = nitrite plus nitrate



Table 1. Summary of Groundwater Results for City of Marinette

April 2017 Sample Results Notification  
 Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant  
 Marinette, Wisconsin  
 BRRTS# 0238000047  
 CERCLIS ID -WIN000509952

Sample Location	Sample Date	BTEX	BTEX	BTEX	BTEX	BTEX	BTEX	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Inorganic	Inorganic	Inorganic	Inorganic
		Benzene	Ethylbenzene	Toluene	Xylenes, m + p	Xylene, o	Xylenes, Total	Aluminum, Dissolved	Antimony, Dissolved	Copper, Dissolved	Iron, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Silver, Dissolved	Vanadium, Dissolved	Zinc, Dissolved	Alkalinity, Total	Methane	Nitrogen, NO2 + NO3, Total	Sulfate, Total
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)	(mg/L)	(µg/L)	(mg/L)	(mg/L)
<i>WI Groundwater PAL:</i>		<u>0.5</u>	<u>140</u>	<u>160</u>	NS	NS	<u>400</u>	<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>	NS	NS	<u>2</u>	<u>125</u>
<b>WI Groundwater ES:</b>		<b>5</b>	<b>700</b>	<b>800</b>	NS	NS	<b>2,000</b>	<b>200</b>	<b>6</b>	<b>1300</b>	<b>300</b>	<b>50</b>	<b>100</b>	<b>50</b>	<b>30</b>	<b>5,000</b>	NS	NS	<b>10</b>	<b>250</b>
040317001 MW305	04/03/2017	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.077 J	2.5	<u>391</u>	0.28 J	0.49 J	< 0.016 U	0.28 J	7.7 J	297	< 1.4 U	<u>9.6</u>	<u>167</u>
040317002 MW302	04/03/2017	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.43 J	3.6	41.0 J	0.27 J	1.4	< 0.016 U	0.41 J	6.8 J	265	< 1.4 U	<u>5.3</u>	78.4
040317003 MW304	04/03/2017	<u>45.9</u>	< 0.50 U	0.94 J	2.3	4	6.3	< 68.7 U*	<u>3</u>	5.1	68.6 J	<u>112</u>	1.3	< 0.016 U	3.9	< 3.1 U	347	183	0.33 J	45.7
040317004 MW304 QA/QC1	04/03/2017	<u>56.5</u>	0.86 J	1.2	3.1	5.3	8.4	< 68.7 U*	<u>3</u>	4.9	71.9 J	<u>121</u>	1.4	< 0.016 U	3.9	< 3.1 U	284	118	0.32 J	45.5
040317005 MW303	04/03/2017	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.41 J	4.6	<u>806</u>	<u>682</u>	2.1	< 0.016 U	0.51 J	3.4 J	441	202	<u>4.5</u>	<u>307</u>
040317006 MW313	04/03/2017	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	<u>1.2</u>	5.6	<u>1,530</u>	<u>185</u>	2.1	< 0.016 U	0.94 J	83.8 J	287	2,720	<u>6.4</u>	104
040317007 MW05	04/03/2017	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.28 J	2.5	< 10.0 U	<u>251</u>	1.1	0.057 J	0.29 J	4.0 J	352	< 1.4 U	1.6 J	<u>125</u>
040317008 MW308	04/03/2017	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.18 J	2.2	<u>5,430</u>	<u>2,250</u>	6.6	0.019 J	0.64 J	117	618	16.4	0.60 J	<u>584</u>
040317009 MW308 QA/QC2	04/03/2017	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.12 J	2.5	<u>5,120</u>	<u>2,190</u>	7.4	< 0.016 U	0.52 J	116	630	22.3	< 0.58 U	<u>544</u>
040317010 MW03R	04/03/2017	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.64 J	4.6	21.3 J	2.9	1.2	< 0.016 U	1.2	18.2	379	< 1.4 U	<u>10.7</u>	<u>154</u>
040417012 MW307R	04/04/2017	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	< 0.073 U	< 0.26 U	<u>39,100</u>	<u>439</u>	0.38 J	< 0.016 U	< 0.15 U	< 3.1 U	400	9,280	< 0.58 U	< 5.0 U
040417013 MW311	04/04/2017	<u>215</u>	<u>141</u>	14.7 J	22.2 J	67.1	89.3	< 68.7 U*	< 0.073 U	< 0.26 U	<u>32,200</u>	<u>1,190</u>	0.52 J	< 0.016 U	1.6	< 3.1 U	882	4,450	< 0.58 U	< 5.0 U
040417014 MW310	04/04/2017	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	< 0.073 U	< 0.26 U	<u>36,300</u>	<u>1,560</u>	0.37 J	< 0.016 U	4.4	< 3.1 U	584	1,610	< 0.58 U	26.4
040417015 MW312	04/04/2017	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	< 0.073 U	< 0.26 U	<u>9,120</u>	<u>637</u>	0.31 J	< 0.016 U	0.46 J	< 3.1 U	734	22,800	< 0.58 U	< 5.0 U
040417016 MW01R	04/04/2017	< 0.50 U*	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 68.7 U*	0.14 J	< 0.26 U	<u>9,720</u>	<u>1,110</u>	0.74 J	< 0.016 U	0.69 J	< 3.1 U	671	12,700	< 0.58 U	< 5.0 U

[O:ECK 5/9/17 C:KLS 5/9/17][U:ECK 6/19/17 C:KLS 6/20/17][QA:EDP 6/20/17]

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 PAH = Polycyclic Aromatic Hydrocarbon  
 NO2 + NO3 = nitrite plus nitrate

**Table 2. Sample Key for City of Marinette****April 2017 Sample Results Notification****Wisconsin Public Service Corporation - Former Marinette Manufactured Gas Plant****Marinette, Wisconsin****BRRTS# 0238000047****CERCLIS ID -WIN000509952**

<b>PACE Lab Report</b>	<b>9-digit code</b>	<b>Location ID Name</b>	<b>Matrix</b>	<b>Date</b>
40147697	040317001	MW305	Groundwater	04/03/2017
40147697	040317002	MW302	Groundwater	04/03/2017
40147697	040317003	MW304	Groundwater	04/03/2017
40147697	040317004	MW304 QA/QC1	Groundwater	04/03/2017
40147697	040317005	MW303	Groundwater	04/03/2017
40147697	040317006	MW313	Groundwater	04/03/2017
40147697	040317007	MW05	Groundwater	04/03/2017
40147697	040317008	MW308	Groundwater	04/03/2017
40147697	040317009	MW308 QA/QC2	Groundwater	04/03/2017
40147697	040317010	MW03R	Groundwater	04/03/2017
40147697	040417012	MW307R	Groundwater	04/04/2017
40147697	040417013	MW311	Groundwater	04/04/2017
40147697	040417014	MW310	Groundwater	04/04/2017
40147697	040417015	MW312	Groundwater	04/04/2017
40147697	040417016	MW01R	Groundwater	04/04/2017

[O:ECK 6/16/17 C:KLS 6/20/17][QA:EDP 6/20/17]

**Notes:**

Sorted by: Matrix, Lab Report #, 9-digit code, Location Name, and Date

QA/QC = Quality Assurance / Quality Control Field Duplicate Sample

# **LABORATORY DATA REPORTS**

May 07, 2014

Brian Hennings  
NATURAL RESOURCE TECHNOLOGY  
234 W. Florida St, 5th Floor  
Milwaukee, WI 53204

RE: Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

Dear Brian Hennings:

Enclosed are the analytical results for sample(s) received by the laboratory on April 24, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

---

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4095262001	042314001	Water	04/23/14 11:53	04/24/14 13:40
4095262002	042314002	Water	04/23/14 12:48	04/24/14 13:40
4095262003	042314003	Water	04/23/14 13:32	04/24/14 13:40
4095262004	042314004	Water	04/23/14 14:35	04/24/14 13:40
4095262005	042314005	Water	04/23/14 14:40	04/24/14 13:40
4095262006	042314006	Water	04/23/14 15:38	04/24/14 13:40
4095262007	042314007	Water	04/23/14 16:33	04/24/14 13:40
4095262008	042314008	Water	04/23/14 17:13	04/24/14 13:40
4095262009	042314009	Water	04/23/14 17:52	04/24/14 13:40
4095262010	042314010	Water	04/23/14 18:34	04/24/14 13:40
4095262011	042314011	Water	04/23/14 19:09	04/24/14 13:40
4095262012	042414012	Water	04/24/14 07:16	04/24/14 13:40
4095262013	042414013	Water	04/24/14 07:53	04/24/14 13:40
4095262014	042414014	Water	04/24/14 07:58	04/24/14 13:40
4095262015	042414015	Water	04/24/14 08:47	04/24/14 13:40
4095262016	042414016	Water	04/24/14 09:24	04/24/14 13:40
4095262017	042414017	Water	04/24/14 00:00	04/24/14 13:40

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4095262001	042314001	EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
4095262002	042314002	EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
4095262003	042314003	EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
4095262004	042314004	EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
4095262005	042314005	EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
4095262006	042314006	EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G

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### SAMPLE ANALYTE COUNT

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4095262007	042314007	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
		EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
4095262008	042314008	EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
		EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
		EPA 8015B Modified	HMH	1	PASI-G
4095262009	042314009	EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
		EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
4095262010	042314010	EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
		EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
4095262011	042314011	EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4095262012	042414012	EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
		EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
4095262013	042414013	EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
		EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
4095262014	042414014	EPA 353.2	HMB	1	PASI-G
		EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
4095262015	042414015	EPA 8015B Modified	HMH	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	HMB	1	PASI-G
		EPA 8015B Modified	HMH	1	PASI-G
4095262016	042414016	EPA 6020	MMZ	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	JCJ	1	PASI-G
		EPA 310.2	DAW	1	PASI-G

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**SAMPLE ANALYTE COUNT**

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4095262017	042414017	EPA 353.2	HMB	1	PASI-G
		EPA 8260	HNW	8	PASI-G

**REPORT OF LABORATORY ANALYSIS**

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## PROJECT NARRATIVE

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

---

**Method:** EPA 8015B Modified

**Description:** Methane, Ethane, Ethene GCV

**Client:** Natural Resources Technologies

**Date:** May 07, 2014

**General Information:**

16 samples were analyzed for EPA 8015B Modified. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

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

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Internal Standards:**

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

**Surrogates:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

QC Batch: GCV/12272

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4095262001

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

- MS (Lab ID: 963263)
  - Methane
- MSD (Lab ID: 963264)
  - Methane

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

---

**Method:** EPA 6020

**Description:** 6020 MET ICPMS, Dissolved

**Client:** Natural Resources Technologies

**Date:** May 07, 2014

**General Information:**

16 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

**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: MPRP/10127

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

- 042314010 (Lab ID: 4095262010)
  - Aluminum, Dissolved
  - Vanadium, Dissolved

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

---

**Method:** EPA 8270 by SIM

**Description:** 8270 MSSV PAH by SIM

**Client:** Natural Resources Technologies

**Date:** May 07, 2014

**General Information:**

16 samples were analyzed for EPA 8270 by SIM. All samples were received in acceptable condition with any exceptions noted below.

**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: OEXT/22120

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

- 042314011 (Lab ID: 4095262011)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)
- 042414012 (Lab ID: 4095262012)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)

**Method Blank:**

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

QC Batch: OEXT/22102

B: Analyte was detected in the associated method blank.

- BLANK for HBN 159249 [OEXT/221 (Lab ID: 961396)
  - Naphthalene

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

---

**Method:** EPA 8270 by SIM

**Description:** 8270 MSSV PAH by SIM

**Client:** Natural Resources Technologies

**Date:** May 07, 2014

QC Batch: OEXT/22102

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4095079002

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

- MSD (Lab ID: 961399)
  - Naphthalene

R1: RPD value was outside control limits.

- MSD (Lab ID: 961399)
  - Naphthalene

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

---

**Method:** EPA 8260

**Description:** 8260 MSV UST

**Client:** Natural Resources Technologies

**Date:** May 07, 2014

**General Information:**

17 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

**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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

---

**Method:** EPA 300.0

**Description:** 300.0 IC Anions 28 Days

**Client:** Natural Resources Technologies

**Date:** May 07, 2014

**General Information:**

16 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

**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.

**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: WETA/22886

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4095262001,4095262010

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

- MSD (Lab ID: 961528)
- Sulfate

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

---

**Method:** EPA 310.2

**Description:** 310.2 Alkalinity

**Client:** Natural Resources Technologies

**Date:** May 07, 2014

**General Information:**

16 samples were analyzed for EPA 310.2. All samples were received in acceptable condition with any exceptions noted below.

**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.

**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: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

---

**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.

**Client:** Natural Resources Technologies

**Date:** May 07, 2014

**General Information:**

16 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

**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.

**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: WETA/22883

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4095262001,4095262016

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

- MS (Lab ID: 961435)
  - Nitrogen, NO<sub>2</sub> plus NO<sub>3</sub>
- MSD (Lab ID: 961436)
  - Nitrogen, NO<sub>2</sub> plus NO<sub>3</sub>

**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: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

**Sample: 042314001**      **Lab ID: 4095262001**      Collected: 04/23/14 11:53      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	13700	ug/L	280	137	100		04/29/14 08:54	74-82-8	M1
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 20:06	7429-90-5	
Antimony, Dissolved	0.26J	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 20:06	7440-36-0	
Copper, Dissolved	0.80J	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 20:06	7440-50-8	
Iron, Dissolved	14800	ug/L	500	8.8	2	04/25/14 10:17	04/30/14 14:22	7439-89-6	
Manganese, Dissolved	897	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 20:06	7439-96-5	
Nickel, Dissolved	0.88J	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 20:06	7440-02-0	
Silver, Dissolved	0.068J	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 20:06	7440-22-4	
Vanadium, Dissolved	0.84J	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 20:06	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 20:06	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.16	ug/L	0.047	0.0068	1	04/28/14 12:00	05/01/14 13:21	83-32-9	
Acenaphthylene	0.015J	ug/L	0.047	0.0063	1	04/28/14 12:00	05/01/14 13:21	208-96-8	
Anthracene	0.056	ug/L	0.047	0.0067	1	04/28/14 12:00	05/01/14 13:21	120-12-7	
Benzo(a)anthracene	0.0090J	ug/L	0.047	0.0053	1	04/28/14 12:00	05/01/14 13:21	56-55-3	
Benzo(a)pyrene	<0.0087	ug/L	0.047	0.0087	1	04/28/14 12:00	05/01/14 13:21	50-32-8	
Benzo(b)fluoranthene	<0.0062	ug/L	0.047	0.0062	1	04/28/14 12:00	05/01/14 13:21	205-99-2	
Benzo(g,h,i)perylene	0.0061J	ug/L	0.047	0.0037	1	04/28/14 12:00	05/01/14 13:21	191-24-2	
Benzo(k)fluoranthene	0.0074J	ug/L	0.047	0.0028	1	04/28/14 12:00	05/01/14 13:21	207-08-9	
Chrysene	0.012J	ug/L	0.047	0.0030	1	04/28/14 12:00	05/01/14 13:21	218-01-9	
Dibenz(a,h)anthracene	<0.0059	ug/L	0.047	0.0059	1	04/28/14 12:00	05/01/14 13:21	53-70-3	
Fluoranthene	0.066	ug/L	0.047	0.0072	1	04/28/14 12:00	05/01/14 13:21	206-44-0	
Fluorene	0.10	ug/L	0.047	0.0066	1	04/28/14 12:00	05/01/14 13:21	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0049	ug/L	0.047	0.0049	1	04/28/14 12:00	05/01/14 13:21	193-39-5	
1-Methylnaphthalene	0.0076J	ug/L	0.047	0.0062	1	04/28/14 12:00	05/01/14 13:21	90-12-0	
2-Methylnaphthalene	<0.0064	ug/L	0.047	0.0064	1	04/28/14 12:00	05/01/14 13:21	91-57-6	
Naphthalene	0.0082J	ug/L	0.047	0.0081	1	04/28/14 12:00	05/01/14 13:21	91-20-3	
Phenanthrene	0.035J	ug/L	0.047	0.0083	1	04/28/14 12:00	05/01/14 13:21	85-01-8	
Pyrene	0.067	ug/L	0.047	0.0076	1	04/28/14 12:00	05/01/14 13:21	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	44	%	24-130		1	04/28/14 12:00	05/01/14 13:21	321-60-8	
Terphenyl-d14 (S)	92	%	44-169		1	04/28/14 12:00	05/01/14 13:21	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/25/14 16:21	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/25/14 16:21	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/25/14 16:21	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/25/14 16:21	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/25/14 16:21	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	114	%	70-130		1		04/25/14 16:21	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/25/14 16:21	2037-26-5	
4-Bromofluorobenzene (S)	92	%	59-130		1		04/25/14 16:21	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

Sample: 042314001      Lab ID: 4095262001      Collected: 04/23/14 11:53      Received: 04/24/14 13:40      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	310	mg/L	80.0	40.0	20		04/25/14 09:59	14808-79-8	M0
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	914	mg/L	100	37.5	5		05/02/14 11:37		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/25/14 13:53		M0

Sample: 042314002      Lab ID: 4095262002      Collected: 04/23/14 12:48      Received: 04/24/14 13:40      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	975	ug/L	14.0	6.8	5		04/29/14 10:38	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 20:33	7429-90-5	
Antimony, Dissolved	0.64J	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 20:33	7440-36-0	
Copper, Dissolved	1.7	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 20:33	7440-50-8	
Iron, Dissolved	5430	ug/L	250	4.4	1	04/25/14 10:17	04/28/14 20:33	7439-89-6	
Manganese, Dissolved	831	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 20:33	7439-96-5	
Nickel, Dissolved	1.9	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 20:33	7440-02-0	
Silver, Dissolved	0.16J	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 20:33	7440-22-4	
Vanadium, Dissolved	0.69J	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 20:33	7440-62-2	
Zinc, Dissolved	6.7J	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 20:33	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	<0.0068	ug/L	0.047	0.0068	1	04/25/14 12:00	04/25/14 15:10	83-32-9	
Acenaphthylene	0.0064J	ug/L	0.047	0.0063	1	04/25/14 12:00	04/25/14 15:10	208-96-8	
Anthracene	<0.0067	ug/L	0.047	0.0067	1	04/25/14 12:00	04/25/14 15:10	120-12-7	
Benzo(a)anthracene	0.0061J	ug/L	0.047	0.0053	1	04/25/14 12:00	04/25/14 15:10	56-55-3	
Benzo(a)pyrene	<0.0087	ug/L	0.047	0.0087	1	04/25/14 12:00	04/25/14 15:10	50-32-8	
Benzo(b)fluoranthene	<0.0062	ug/L	0.047	0.0062	1	04/25/14 12:00	04/25/14 15:10	205-99-2	
Benzo(g,h,i)perylene	<0.0037	ug/L	0.047	0.0037	1	04/25/14 12:00	04/25/14 15:10	191-24-2	
Benzo(k)fluoranthene	0.0055J	ug/L	0.047	0.0028	1	04/25/14 12:00	04/25/14 15:10	207-08-9	
Chrysene	0.0087J	ug/L	0.047	0.0030	1	04/25/14 12:00	04/25/14 15:10	218-01-9	
Dibenz(a,h)anthracene	<0.0059	ug/L	0.047	0.0059	1	04/25/14 12:00	04/25/14 15:10	53-70-3	
Fluoranthene	0.018J	ug/L	0.047	0.0072	1	04/25/14 12:00	04/25/14 15:10	206-44-0	
Fluorene	<0.0066	ug/L	0.047	0.0066	1	04/25/14 12:00	04/25/14 15:10	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0049	ug/L	0.047	0.0049	1	04/25/14 12:00	04/25/14 15:10	193-39-5	
1-Methylnaphthalene	0.011J	ug/L	0.047	0.0062	1	04/25/14 12:00	04/25/14 15:10	90-12-0	
2-Methylnaphthalene	0.022J	ug/L	0.047	0.0064	1	04/25/14 12:00	04/25/14 15:10	91-57-6	
Naphthalene	0.041J	ug/L	0.047	0.0081	1	04/25/14 12:00	04/25/14 15:10	91-20-3	B
Phenanthrene	0.017J	ug/L	0.047	0.0083	1	04/25/14 12:00	04/25/14 15:10	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

**Sample: 042314002**      **Lab ID: 4095262002**      Collected: 04/23/14 12:48      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Pyrene	<b>0.016J</b>	ug/L	0.047	0.0076	1	04/25/14 12:00	04/25/14 15:10	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	38 %		24-130		1	04/25/14 12:00	04/25/14 15:10	321-60-8	
Terphenyl-d14 (S)	80 %		44-169		1	04/25/14 12:00	04/25/14 15:10	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 16:44	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 16:44	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 16:44	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/25/14 16:44	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 16:44	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	110 %		70-130		1		04/25/14 16:44	1868-53-7	
Toluene-d8 (S)	101 %		70-130		1		04/25/14 16:44	2037-26-5	
4-Bromofluorobenzene (S)	93 %		59-130		1		04/25/14 16:44	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>310</b>	mg/L	40.0	20.0	10		04/25/14 10:07	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>606</b>	mg/L	100	37.5	5		05/02/14 12:51		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		04/25/14 13:58		

**Sample: 042314003**      **Lab ID: 4095262003**      Collected: 04/23/14 13:32      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>191</b>	ug/L	2.8	1.4	1		04/29/14 08:05	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 20:47	7429-90-5	
Antimony, Dissolved	<b>0.48J</b>	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 20:47	7440-36-0	
Copper, Dissolved	<b>0.81J</b>	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 20:47	7440-50-8	
Iron, Dissolved	<b>5450</b>	ug/L	250	4.4	1	04/25/14 10:17	04/28/14 20:47	7439-89-6	
Manganese, Dissolved	<b>2080</b>	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 20:47	7439-96-5	
Nickel, Dissolved	<b>3.0</b>	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 20:47	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 20:47	7440-22-4	
Vanadium, Dissolved	<b>0.30J</b>	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 20:47	7440-62-2	
Zinc, Dissolved	<b>17.2</b>	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 20:47	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

**Sample: 042314003**      **Lab ID: 4095262003**      Collected: 04/23/14 13:32      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.24	ug/L	0.047	0.0068	1	04/25/14 12:00	04/25/14 15:28	83-32-9	
Acenaphthylene	0.053	ug/L	0.047	0.0063	1	04/25/14 12:00	04/25/14 15:28	208-96-8	
Anthracene	0.086	ug/L	0.047	0.0067	1	04/25/14 12:00	04/25/14 15:28	120-12-7	
Benzo(a)anthracene	0.058	ug/L	0.047	0.0053	1	04/25/14 12:00	04/25/14 15:28	56-55-3	
Benzo(a)pyrene	0.086	ug/L	0.047	0.0087	1	04/25/14 12:00	04/25/14 15:28	50-32-8	
Benzo(b)fluoranthene	0.070	ug/L	0.047	0.0062	1	04/25/14 12:00	04/25/14 15:28	205-99-2	
Benzo(g,h,i)perylene	0.054	ug/L	0.047	0.0037	1	04/25/14 12:00	04/25/14 15:28	191-24-2	
Benzo(k)fluoranthene	0.070	ug/L	0.047	0.0028	1	04/25/14 12:00	04/25/14 15:28	207-08-9	
Chrysene	0.092	ug/L	0.047	0.0030	1	04/25/14 12:00	04/25/14 15:28	218-01-9	
Dibenz(a,h)anthracene	0.011J	ug/L	0.047	0.0059	1	04/25/14 12:00	04/25/14 15:28	53-70-3	
Fluoranthene	0.23	ug/L	0.047	0.0072	1	04/25/14 12:00	04/25/14 15:28	206-44-0	
Fluorene	0.0066J	ug/L	0.047	0.0066	1	04/25/14 12:00	04/25/14 15:28	86-73-7	
Indeno(1,2,3-cd)pyrene	0.045J	ug/L	0.047	0.0049	1	04/25/14 12:00	04/25/14 15:28	193-39-5	
1-Methylnaphthalene	0.11	ug/L	0.047	0.0062	1	04/25/14 12:00	04/25/14 15:28	90-12-0	
2-Methylnaphthalene	0.20	ug/L	0.047	0.0064	1	04/25/14 12:00	04/25/14 15:28	91-57-6	
Naphthalene	0.37	ug/L	0.047	0.0081	1	04/25/14 12:00	04/25/14 15:28	91-20-3	
Phenanthrene	0.072	ug/L	0.047	0.0083	1	04/25/14 12:00	04/25/14 15:28	85-01-8	
Pyrene	0.20	ug/L	0.047	0.0076	1	04/25/14 12:00	04/25/14 15:28	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	41	%	24-130		1	04/25/14 12:00	04/25/14 15:28	321-60-8	
Terphenyl-d14 (S)	85	%	44-169		1	04/25/14 12:00	04/25/14 15:28	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/25/14 10:21	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/25/14 10:21	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/25/14 10:21	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/25/14 10:21	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/25/14 10:21	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	109	%	70-130		1		04/25/14 10:21	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/25/14 10:21	2037-26-5	
4-Bromofluorobenzene (S)	94	%	59-130		1		04/25/14 10:21	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	191	mg/L	40.0	20.0	10		04/25/14 10:15	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	399	mg/L	20.0	7.5	1		05/02/14 11:41		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/25/14 13:59		

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

**Sample: 042314004**      **Lab ID: 4095262004**      Collected: 04/23/14 14:35      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/29/14 08:12	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 20:54	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 20:54	7440-36-0	
Copper, Dissolved	2.7	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 20:54	7440-50-8	
Iron, Dissolved	159J	ug/L	250	4.4	1	04/25/14 10:17	04/28/14 20:54	7439-89-6	
Manganese, Dissolved	2.1	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 20:54	7439-96-5	
Nickel, Dissolved	0.54J	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 20:54	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 20:54	7440-22-4	
Vanadium, Dissolved	<0.15	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 20:54	7440-62-2	
Zinc, Dissolved	5.6J	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 20:54	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	<0.0068	ug/L	0.047	0.0068	1	04/25/14 12:00	04/25/14 15:45	83-32-9	
Acenaphthylene	0.012J	ug/L	0.047	0.0063	1	04/25/14 12:00	04/25/14 15:45	208-96-8	
Anthracene	0.013J	ug/L	0.047	0.0067	1	04/25/14 12:00	04/25/14 15:45	120-12-7	
Benzo(a)anthracene	0.015J	ug/L	0.047	0.0053	1	04/25/14 12:00	04/25/14 15:45	56-55-3	
Benzo(a)pyrene	0.019J	ug/L	0.047	0.0087	1	04/25/14 12:00	04/25/14 15:45	50-32-8	
Benzo(b)fluoranthene	0.018J	ug/L	0.047	0.0062	1	04/25/14 12:00	04/25/14 15:45	205-99-2	
Benzo(g,h,i)perylene	0.016J	ug/L	0.047	0.0037	1	04/25/14 12:00	04/25/14 15:45	191-24-2	
Benzo(k)fluoranthene	0.022J	ug/L	0.047	0.0028	1	04/25/14 12:00	04/25/14 15:45	207-08-9	
Chrysene	0.027J	ug/L	0.047	0.0030	1	04/25/14 12:00	04/25/14 15:45	218-01-9	
Dibenz(a,h)anthracene	<0.0059	ug/L	0.047	0.0059	1	04/25/14 12:00	04/25/14 15:45	53-70-3	
Fluoranthene	0.062	ug/L	0.047	0.0072	1	04/25/14 12:00	04/25/14 15:45	206-44-0	
Fluorene	<0.0066	ug/L	0.047	0.0066	1	04/25/14 12:00	04/25/14 15:45	86-73-7	
Indeno(1,2,3-cd)pyrene	0.013J	ug/L	0.047	0.0049	1	04/25/14 12:00	04/25/14 15:45	193-39-5	
1-Methylnaphthalene	0.0071J	ug/L	0.047	0.0062	1	04/25/14 12:00	04/25/14 15:45	90-12-0	
2-Methylnaphthalene	0.014J	ug/L	0.047	0.0064	1	04/25/14 12:00	04/25/14 15:45	91-57-6	
Naphthalene	0.028J	ug/L	0.047	0.0081	1	04/25/14 12:00	04/25/14 15:45	91-20-3	B
Phenanthrene	0.043J	ug/L	0.047	0.0083	1	04/25/14 12:00	04/25/14 15:45	85-01-8	
Pyrene	0.042J	ug/L	0.047	0.0076	1	04/25/14 12:00	04/25/14 15:45	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	40 %		24-130		1	04/25/14 12:00	04/25/14 15:45	321-60-8	
Terphenyl-d14 (S)	77 %		44-169		1	04/25/14 12:00	04/25/14 15:45	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/25/14 10:44	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/25/14 10:44	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/25/14 10:44	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/25/14 10:44	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/25/14 10:44	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	109 %		70-130		1		04/25/14 10:44	1868-53-7	
Toluene-d8 (S)	100 %		70-130		1		04/25/14 10:44	2037-26-5	
4-Bromofluorobenzene (S)	94 %		59-130		1		04/25/14 10:44	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

Sample: 042314004      Lab ID: 4095262004      Collected: 04/23/14 14:35      Received: 04/24/14 13:40      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	70.2	mg/L	20.0	10.0	5		04/25/14 15:08	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	240	mg/L	20.0	7.5	1		05/02/14 11:42		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	5.7	mg/L	0.25	0.095	1		04/25/14 14:00		

Sample: 042314005      Lab ID: 4095262005      Collected: 04/23/14 14:40      Received: 04/24/14 13:40      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/29/14 08:19	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 21:14	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 21:14	7440-36-0	
Copper, Dissolved	2.3	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 21:14	7440-50-8	
Iron, Dissolved	163J	ug/L	250	4.4	1	04/25/14 10:17	04/28/14 21:14	7439-89-6	
Manganese, Dissolved	0.40J	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 21:14	7439-96-5	
Nickel, Dissolved	0.35J	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 21:14	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 21:14	7440-22-4	
Vanadium, Dissolved	<0.15	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 21:14	7440-62-2	
Zinc, Dissolved	6.0J	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 21:14	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	<0.0068	ug/L	0.047	0.0068	1	04/25/14 12:00	04/25/14 16:03	83-32-9	
Acenaphthylene	0.013J	ug/L	0.047	0.0063	1	04/25/14 12:00	04/25/14 16:03	208-96-8	
Anthracene	0.012J	ug/L	0.047	0.0067	1	04/25/14 12:00	04/25/14 16:03	120-12-7	
Benzo(a)anthracene	0.0063J	ug/L	0.047	0.0053	1	04/25/14 12:00	04/25/14 16:03	56-55-3	
Benzo(a)pyrene	<0.0087	ug/L	0.047	0.0087	1	04/25/14 12:00	04/25/14 16:03	50-32-8	
Benzo(b)fluoranthene	0.0074J	ug/L	0.047	0.0062	1	04/25/14 12:00	04/25/14 16:03	205-99-2	
Benzo(g,h,i)perylene	0.0088J	ug/L	0.047	0.0037	1	04/25/14 12:00	04/25/14 16:03	191-24-2	
Benzo(k)fluoranthene	0.010J	ug/L	0.047	0.0028	1	04/25/14 12:00	04/25/14 16:03	207-08-9	
Chrysene	0.011J	ug/L	0.047	0.0030	1	04/25/14 12:00	04/25/14 16:03	218-01-9	
Dibenz(a,h)anthracene	<0.0059	ug/L	0.047	0.0059	1	04/25/14 12:00	04/25/14 16:03	53-70-3	
Fluoranthene	0.023J	ug/L	0.047	0.0072	1	04/25/14 12:00	04/25/14 16:03	206-44-0	
Fluorene	<0.0066	ug/L	0.047	0.0066	1	04/25/14 12:00	04/25/14 16:03	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0061J	ug/L	0.047	0.0049	1	04/25/14 12:00	04/25/14 16:03	193-39-5	
1-Methylnaphthalene	0.021J	ug/L	0.047	0.0062	1	04/25/14 12:00	04/25/14 16:03	90-12-0	
2-Methylnaphthalene	0.043J	ug/L	0.047	0.0064	1	04/25/14 12:00	04/25/14 16:03	91-57-6	
Naphthalene	0.087	ug/L	0.047	0.0081	1	04/25/14 12:00	04/25/14 16:03	91-20-3	B
Phenanthrene	0.014J	ug/L	0.047	0.0083	1	04/25/14 12:00	04/25/14 16:03	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

**Sample: 042314005**      **Lab ID: 4095262005**      Collected: 04/23/14 14:40      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Pyrene	<b>0.016J</b>	ug/L	0.047	0.0076	1	04/25/14 12:00	04/25/14 16:03	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	45 %		24-130		1	04/25/14 12:00	04/25/14 16:03	321-60-8	
Terphenyl-d14 (S)	79 %		44-169		1	04/25/14 12:00	04/25/14 16:03	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 11:15	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 11:15	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 11:15	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/25/14 11:15	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 11:15	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	109 %		70-130		1		04/25/14 11:15	1868-53-7	
Toluene-d8 (S)	99 %		70-130		1		04/25/14 11:15	2037-26-5	
4-Bromofluorobenzene (S)	93 %		59-130		1		04/25/14 11:15	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>73.2</b>	mg/L	20.0	10.0	5		04/25/14 15:16	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>245</b>	mg/L	20.0	7.5	1		05/02/14 11:42		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>5.5</b>	mg/L	0.25	0.095	1		04/25/14 14:01		

**Sample: 042314006**      **Lab ID: 4095262006**      Collected: 04/23/14 15:38      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified									
Methane	<b>148</b>	ug/L	2.8	1.4	1		04/29/14 08:26	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 21:21	7429-90-5	
Antimony, Dissolved	<b>&lt;0.073</b>	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 21:21	7440-36-0	
Copper, Dissolved	<b>0.33J</b>	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 21:21	7440-50-8	
Iron, Dissolved	<b>3560</b>	ug/L	250	4.4	1	04/25/14 10:17	04/28/14 21:21	7439-89-6	
Manganese, Dissolved	<b>87.9</b>	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 21:21	7439-96-5	
Nickel, Dissolved	<b>1.1</b>	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 21:21	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 21:21	7440-22-4	
Vanadium, Dissolved	<b>0.20J</b>	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 21:21	7440-62-2	
Zinc, Dissolved	<b>4.2J</b>	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 21:21	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

**Sample: 042314006**      **Lab ID: 4095262006**      Collected: 04/23/14 15:38      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	1.3	ug/L	0.19	0.027	4	04/25/14 12:00	04/25/14 18:24	83-32-9	
Acenaphthylene	0.29	ug/L	0.19	0.025	4	04/25/14 12:00	04/25/14 18:24	208-96-8	
Anthracene	0.15J	ug/L	0.19	0.027	4	04/25/14 12:00	04/25/14 18:24	120-12-7	
Benzo(a)anthracene	0.052J	ug/L	0.19	0.021	4	04/25/14 12:00	04/25/14 18:24	56-55-3	
Benzo(a)pyrene	0.043J	ug/L	0.19	0.035	4	04/25/14 12:00	04/25/14 18:24	50-32-8	
Benzo(b)fluoranthene	0.025J	ug/L	0.19	0.025	4	04/25/14 12:00	04/25/14 18:24	205-99-2	
Benzo(g,h,i)perylene	0.021J	ug/L	0.19	0.015	4	04/25/14 12:00	04/25/14 18:24	191-24-2	
Benzo(k)fluoranthene	0.038J	ug/L	0.19	0.011	4	04/25/14 12:00	04/25/14 18:24	207-08-9	
Chrysene	0.057J	ug/L	0.19	0.012	4	04/25/14 12:00	04/25/14 18:24	218-01-9	
Dibenz(a,h)anthracene	<0.023	ug/L	0.19	0.023	4	04/25/14 12:00	04/25/14 18:24	53-70-3	
Fluoranthene	0.90	ug/L	0.19	0.029	4	04/25/14 12:00	04/25/14 18:24	206-44-0	
Fluorene	0.27	ug/L	0.19	0.026	4	04/25/14 12:00	04/25/14 18:24	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.019	ug/L	0.19	0.019	4	04/25/14 12:00	04/25/14 18:24	193-39-5	
1-Methylnaphthalene	0.15J	ug/L	0.19	0.025	4	04/25/14 12:00	04/25/14 18:24	90-12-0	
2-Methylnaphthalene	<0.026	ug/L	0.19	0.026	4	04/25/14 12:00	04/25/14 18:24	91-57-6	
Naphthalene	0.29	ug/L	0.19	0.032	4	04/25/14 12:00	04/25/14 18:24	91-20-3	B
Phenanthrene	0.045J	ug/L	0.19	0.033	4	04/25/14 12:00	04/25/14 18:24	85-01-8	
Pyrene	0.43	ug/L	0.19	0.030	4	04/25/14 12:00	04/25/14 18:24	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	39	%	24-130		4	04/25/14 12:00	04/25/14 18:24	321-60-8	
Terphenyl-d14 (S)	81	%	44-169		4	04/25/14 12:00	04/25/14 18:24	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	22.5	ug/L	1.0	0.50	1		04/25/14 11:39	71-43-2	
Ethylbenzene	0.82J	ug/L	1.0	0.50	1		04/25/14 11:39	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/25/14 11:39	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/25/14 11:39	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/25/14 11:39	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	109	%	70-130		1		04/25/14 11:39	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/25/14 11:39	2037-26-5	
4-Bromofluorobenzene (S)	95	%	59-130		1		04/25/14 11:39	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	244	mg/L	20.0	10.0	5		04/25/14 10:40	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub>	345	mg/L	20.0	7.5	1		05/02/14 11:43		
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO <sub>2</sub> plus NO <sub>3</sub>	<0.095	mg/L	0.25	0.095	1		04/25/14 14:01		

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

**Sample: 042314007**      **Lab ID: 4095262007**      Collected: 04/23/14 16:33      Received: 04/24/14 13:40      Matrix: Water

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

Methane	<1.4	ug/L	2.8	1.4	1		04/29/14 08:33	74-82-8	
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**6020 MET ICPMS, Dissolved**      Analytical Method: EPA 6020      Preparation Method: EPA 3010

Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 21:28	7429-90-5	
Antimony, Dissolved	1.8	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 21:28	7440-36-0	
Copper, Dissolved	2.6	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 21:28	7440-50-8	
Iron, Dissolved	149J	ug/L	250	4.4	1	04/25/14 10:17	04/28/14 21:28	7439-89-6	
Manganese, Dissolved	50.5	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 21:28	7439-96-5	
Nickel, Dissolved	1.4	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 21:28	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 21:28	7440-22-4	
Vanadium, Dissolved	4.5	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 21:28	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 21:28	7440-66-6	

**8270 MSSV PAH by SIM**      Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510

Acenaphthene	0.019J	ug/L	0.047	0.0068	1	04/25/14 12:00	04/25/14 16:21	83-32-9	
Acenaphthylene	0.024J	ug/L	0.047	0.0063	1	04/25/14 12:00	04/25/14 16:21	208-96-8	
Anthracene	0.059	ug/L	0.047	0.0067	1	04/25/14 12:00	04/25/14 16:21	120-12-7	
Benzo(a)anthracene	0.014J	ug/L	0.047	0.0053	1	04/25/14 12:00	04/25/14 16:21	56-55-3	
Benzo(a)pyrene	0.015J	ug/L	0.047	0.0087	1	04/25/14 12:00	04/25/14 16:21	50-32-8	
Benzo(b)fluoranthene	0.011J	ug/L	0.047	0.0062	1	04/25/14 12:00	04/25/14 16:21	205-99-2	
Benzo(g,h,i)perylene	0.011J	ug/L	0.047	0.0037	1	04/25/14 12:00	04/25/14 16:21	191-24-2	
Benzo(k)fluoranthene	0.015J	ug/L	0.047	0.0028	1	04/25/14 12:00	04/25/14 16:21	207-08-9	
Chrysene	0.015J	ug/L	0.047	0.0030	1	04/25/14 12:00	04/25/14 16:21	218-01-9	
Dibenz(a,h)anthracene	<0.0059	ug/L	0.047	0.0059	1	04/25/14 12:00	04/25/14 16:21	53-70-3	
Fluoranthene	0.034J	ug/L	0.047	0.0072	1	04/25/14 12:00	04/25/14 16:21	206-44-0	
Fluorene	<0.0066	ug/L	0.047	0.0066	1	04/25/14 12:00	04/25/14 16:21	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0094J	ug/L	0.047	0.0049	1	04/25/14 12:00	04/25/14 16:21	193-39-5	
1-Methylnaphthalene	0.015J	ug/L	0.047	0.0062	1	04/25/14 12:00	04/25/14 16:21	90-12-0	
2-Methylnaphthalene	0.0088J	ug/L	0.047	0.0064	1	04/25/14 12:00	04/25/14 16:21	91-57-6	
Naphthalene	0.12	ug/L	0.047	0.0081	1	04/25/14 12:00	04/25/14 16:21	91-20-3	B
Phenanthrene	0.0094J	ug/L	0.047	0.0083	1	04/25/14 12:00	04/25/14 16:21	85-01-8	
Pyrene	0.026J	ug/L	0.047	0.0076	1	04/25/14 12:00	04/25/14 16:21	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	44	%	24-130		1	04/25/14 12:00	04/25/14 16:21	321-60-8	
Terphenyl-d14 (S)	86	%	44-169		1	04/25/14 12:00	04/25/14 16:21	1718-51-0	

**8260 MSV UST**      Analytical Method: EPA 8260

Benzene	1.2	ug/L	1.0	0.50	1		04/25/14 12:02	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/25/14 12:02	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/25/14 12:02	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/25/14 12:02	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/25/14 12:02	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	111	%	70-130		1		04/25/14 12:02	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/25/14 12:02	2037-26-5	
4-Bromofluorobenzene (S)	94	%	59-130		1		04/25/14 12:02	460-00-4	

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## ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

Sample: 042314007      Lab ID: 4095262007      Collected: 04/23/14 16:33      Received: 04/24/14 13:40      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	218	mg/L	20.0	10.0	5		04/25/14 10:48	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	582	mg/L	100	37.5	5		05/02/14 12:52		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	1.0	mg/L	0.25	0.095	1		04/25/14 14:02		

Sample: 042314008      Lab ID: 4095262008      Collected: 04/23/14 17:13      Received: 04/24/14 13:40      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	136	ug/L	2.8	1.4	1		04/29/14 08:40	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 21:35	7429-90-5	
Antimony, Dissolved	0.36J	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 21:35	7440-36-0	
Copper, Dissolved	1.3	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 21:35	7440-50-8	
Iron, Dissolved	1280	ug/L	250	4.4	1	04/25/14 10:17	04/28/14 21:35	7439-89-6	
Manganese, Dissolved	543	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 21:35	7439-96-5	
Nickel, Dissolved	1.3	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 21:35	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 21:35	7440-22-4	
Vanadium, Dissolved	0.28J	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 21:35	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 21:35	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.074	ug/L	0.048	0.0069	1	04/28/14 12:00	05/01/14 13:56	83-32-9	
Acenaphthylene	0.017J	ug/L	0.048	0.0064	1	04/28/14 12:00	05/01/14 13:56	208-96-8	
Anthracene	0.036J	ug/L	0.048	0.0068	1	04/28/14 12:00	05/01/14 13:56	120-12-7	
Benzo(a)anthracene	0.011J	ug/L	0.048	0.0054	1	04/28/14 12:00	05/01/14 13:56	56-55-3	
Benzo(a)pyrene	0.019J	ug/L	0.048	0.0088	1	04/28/14 12:00	05/01/14 13:56	50-32-8	
Benzo(b)fluoranthene	0.034J	ug/L	0.048	0.0062	1	04/28/14 12:00	05/01/14 13:56	205-99-2	
Benzo(g,h,i)perylene	0.025J	ug/L	0.048	0.0038	1	04/28/14 12:00	05/01/14 13:56	191-24-2	
Benzo(k)fluoranthene	0.030J	ug/L	0.048	0.0028	1	04/28/14 12:00	05/01/14 13:56	207-08-9	
Chrysene	0.024J	ug/L	0.048	0.0031	1	04/28/14 12:00	05/01/14 13:56	218-01-9	
Dibenz(a,h)anthracene	0.0072J	ug/L	0.048	0.0059	1	04/28/14 12:00	05/01/14 13:56	53-70-3	
Fluoranthene	0.031J	ug/L	0.048	0.0072	1	04/28/14 12:00	05/01/14 13:56	206-44-0	
Fluorene	<0.0066	ug/L	0.048	0.0066	1	04/28/14 12:00	05/01/14 13:56	86-73-7	
Indeno(1,2,3-cd)pyrene	0.021J	ug/L	0.048	0.0049	1	04/28/14 12:00	05/01/14 13:56	193-39-5	
1-Methylnaphthalene	0.011J	ug/L	0.048	0.0063	1	04/28/14 12:00	05/01/14 13:56	90-12-0	
2-Methylnaphthalene	0.010J	ug/L	0.048	0.0065	1	04/28/14 12:00	05/01/14 13:56	91-57-6	
Naphthalene	0.071	ug/L	0.048	0.0082	1	04/28/14 12:00	05/01/14 13:56	91-20-3	
Phenanthrene	<0.0084	ug/L	0.048	0.0084	1	04/28/14 12:00	05/01/14 13:56	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

**Sample: 042314008**      **Lab ID: 4095262008**      Collected: 04/23/14 17:13      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Pyrene	<b>0.035J</b>	ug/L	0.048	0.0077	1	04/28/14 12:00	05/01/14 13:56	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	44 %		24-130		1	04/28/14 12:00	05/01/14 13:56	321-60-8	
Terphenyl-d14 (S)	148 %		44-169		1	04/28/14 12:00	05/01/14 13:56	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 12:26	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 12:26	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 12:26	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/25/14 12:26	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 12:26	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	111 %		70-130		1		04/25/14 12:26	1868-53-7	
Toluene-d8 (S)	100 %		70-130		1		04/25/14 12:26	2037-26-5	
4-Bromofluorobenzene (S)	92 %		59-130		1		04/25/14 12:26	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>128</b>	mg/L	20.0	10.0	5		04/25/14 10:56	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>450</b>	mg/L	100	37.5	5		05/02/14 12:54		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>3.0</b>	mg/L	0.25	0.095	1		04/25/14 14:03		

**Sample: 042314009**      **Lab ID: 4095262009**      Collected: 04/23/14 17:52      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified									
Methane	<b>2760</b>	ug/L	56.0	27.4	20		04/29/14 11:14	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 21:41	7429-90-5	
Antimony, Dissolved	<b>0.94J</b>	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 21:41	7440-36-0	
Copper, Dissolved	<b>6.4</b>	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 21:41	7440-50-8	
Iron, Dissolved	<b>1220</b>	ug/L	250	4.4	1	04/25/14 10:17	04/28/14 21:41	7439-89-6	
Manganese, Dissolved	<b>592</b>	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 21:41	7439-96-5	
Nickel, Dissolved	<b>2.3</b>	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 21:41	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 21:41	7440-22-4	
Vanadium, Dissolved	<b>0.58J</b>	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 21:41	7440-62-2	
Zinc, Dissolved	<b>6.2J</b>	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 21:41	7440-66-6	

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## ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

**Sample: 042314009**      **Lab ID: 4095262009**      Collected: 04/23/14 17:52      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510							
Acenaphthene	0.27	ug/L	0.047	0.0068	1	04/28/14 12:00	05/01/14 14:13	83-32-9	
Acenaphthylene	0.014J	ug/L	0.047	0.0063	1	04/28/14 12:00	05/01/14 14:13	208-96-8	
Anthracene	0.048	ug/L	0.047	0.0067	1	04/28/14 12:00	05/01/14 14:13	120-12-7	
Benzo(a)anthracene	0.0063J	ug/L	0.047	0.0053	1	04/28/14 12:00	05/01/14 14:13	56-55-3	
Benzo(a)pyrene	<0.0087	ug/L	0.047	0.0087	1	04/28/14 12:00	05/01/14 14:13	50-32-8	
Benzo(b)fluoranthene	0.0079J	ug/L	0.047	0.0062	1	04/28/14 12:00	05/01/14 14:13	205-99-2	
Benzo(g,h,i)perylene	0.0079J	ug/L	0.047	0.0037	1	04/28/14 12:00	05/01/14 14:13	191-24-2	
Benzo(k)fluoranthene	0.0088J	ug/L	0.047	0.0028	1	04/28/14 12:00	05/01/14 14:13	207-08-9	
Chrysene	0.0099J	ug/L	0.047	0.0030	1	04/28/14 12:00	05/01/14 14:13	218-01-9	
Dibenz(a,h)anthracene	<0.0059	ug/L	0.047	0.0059	1	04/28/14 12:00	05/01/14 14:13	53-70-3	
Fluoranthene	0.037J	ug/L	0.047	0.0072	1	04/28/14 12:00	05/01/14 14:13	206-44-0	
Fluorene	0.049	ug/L	0.047	0.0066	1	04/28/14 12:00	05/01/14 14:13	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0060J	ug/L	0.047	0.0049	1	04/28/14 12:00	05/01/14 14:13	193-39-5	
1-Methylnaphthalene	0.025J	ug/L	0.047	0.0062	1	04/28/14 12:00	05/01/14 14:13	90-12-0	
2-Methylnaphthalene	<0.0064	ug/L	0.047	0.0064	1	04/28/14 12:00	05/01/14 14:13	91-57-6	
Naphthalene	0.016J	ug/L	0.047	0.0081	1	04/28/14 12:00	05/01/14 14:13	91-20-3	
Phenanthrene	0.029J	ug/L	0.047	0.0083	1	04/28/14 12:00	05/01/14 14:13	85-01-8	
Pyrene	0.030J	ug/L	0.047	0.0076	1	04/28/14 12:00	05/01/14 14:13	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	63 %		24-130		1	04/28/14 12:00	05/01/14 14:13	321-60-8	
Terphenyl-d14 (S)	95 %		44-169		1	04/28/14 12:00	05/01/14 14:13	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		04/25/14 17:08	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/25/14 17:08	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/25/14 17:08	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/25/14 17:08	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/25/14 17:08	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	112 %		70-130		1		04/25/14 17:08	1868-53-7	
Toluene-d8 (S)	100 %		70-130		1		04/25/14 17:08	2037-26-5	
4-Bromofluorobenzene (S)	92 %		59-130		1		04/25/14 17:08	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	398	mg/L	40.0	20.0	10		04/25/14 11:21	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub>	356	mg/L	20.0	7.5	1		05/02/14 11:45		
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO <sub>2</sub> plus NO <sub>3</sub>	24.0	mg/L	2.5	0.95	10		04/25/14 14:46		

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

**Sample: 042314010**      **Lab ID: 4095262010**      Collected: 04/23/14 18:34      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/29/14 09:34	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<137	ug/L	500	137	2	04/25/14 10:17	04/30/14 14:49	7429-90-5	D3
Antimony, Dissolved	0.25J	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 21:48	7440-36-0	
Copper, Dissolved	4.0	ug/L	2.0	0.51	2	04/25/14 10:17	04/30/14 14:49	7440-50-8	
Iron, Dissolved	687	ug/L	500	8.8	2	04/25/14 10:17	04/30/14 14:49	7439-89-6	
Manganese, Dissolved	1890	ug/L	2.0	0.36	2	04/25/14 10:17	04/30/14 14:49	7439-96-5	
Nickel, Dissolved	11.3	ug/L	2.0	0.23	2	04/25/14 10:17	04/30/14 14:49	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 21:48	7440-22-4	
Vanadium, Dissolved	1.2J	ug/L	2.0	0.31	2	04/25/14 10:17	04/30/14 14:49	7440-62-2	D3
Zinc, Dissolved	270	ug/L	20.0	6.1	2	04/25/14 10:17	04/30/14 14:49	7440-66-6	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	<0.0068	ug/L	0.047	0.0068	1	04/28/14 12:00	05/01/14 14:31	83-32-9	
Acenaphthylene	<0.0063	ug/L	0.047	0.0063	1	04/28/14 12:00	05/01/14 14:31	208-96-8	
Anthracene	0.011J	ug/L	0.047	0.0067	1	04/28/14 12:00	05/01/14 14:31	120-12-7	
Benzo(a)anthracene	0.0068J	ug/L	0.047	0.0053	1	04/28/14 12:00	05/01/14 14:31	56-55-3	
Benzo(a)pyrene	<0.0087	ug/L	0.047	0.0087	1	04/28/14 12:00	05/01/14 14:31	50-32-8	
Benzo(b)fluoranthene	0.0072J	ug/L	0.047	0.0062	1	04/28/14 12:00	05/01/14 14:31	205-99-2	
Benzo(g,h,i)perylene	0.0063J	ug/L	0.047	0.0037	1	04/28/14 12:00	05/01/14 14:31	191-24-2	
Benzo(k)fluoranthene	0.0082J	ug/L	0.047	0.0028	1	04/28/14 12:00	05/01/14 14:31	207-08-9	
Chrysene	0.011J	ug/L	0.047	0.0030	1	04/28/14 12:00	05/01/14 14:31	218-01-9	
Dibenz(a,h)anthracene	<0.0059	ug/L	0.047	0.0059	1	04/28/14 12:00	05/01/14 14:31	53-70-3	
Fluoranthene	0.019J	ug/L	0.047	0.0072	1	04/28/14 12:00	05/01/14 14:31	206-44-0	
Fluorene	<0.0066	ug/L	0.047	0.0066	1	04/28/14 12:00	05/01/14 14:31	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0056J	ug/L	0.047	0.0049	1	04/28/14 12:00	05/01/14 14:31	193-39-5	
1-Methylnaphthalene	<0.0062	ug/L	0.047	0.0062	1	04/28/14 12:00	05/01/14 14:31	90-12-0	
2-Methylnaphthalene	<0.0064	ug/L	0.047	0.0064	1	04/28/14 12:00	05/01/14 14:31	91-57-6	
Naphthalene	0.0087J	ug/L	0.047	0.0081	1	04/28/14 12:00	05/01/14 14:31	91-20-3	
Phenanthrene	0.017J	ug/L	0.047	0.0083	1	04/28/14 12:00	05/01/14 14:31	85-01-8	
Pyrene	0.019J	ug/L	0.047	0.0076	1	04/28/14 12:00	05/01/14 14:31	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	47	%	24-130		1	04/28/14 12:00	05/01/14 14:31	321-60-8	
Terphenyl-d14 (S)	90	%	44-169		1	04/28/14 12:00	05/01/14 14:31	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/25/14 12:49	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/25/14 12:49	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/25/14 12:49	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/25/14 12:49	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/25/14 12:49	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	111	%	70-130		1		04/25/14 12:49	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/25/14 12:49	2037-26-5	
4-Bromofluorobenzene (S)	92	%	59-130		1		04/25/14 12:49	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

Sample: 042314010      Lab ID: 4095262010      Collected: 04/23/14 18:34      Received: 04/24/14 13:40      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	504	mg/L	200	100	50		04/25/14 15:24	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	660	mg/L	100	37.5	5		05/02/14 12:55		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.34	mg/L	0.25	0.095	1		04/25/14 14:05		

Sample: 042314011      Lab ID: 4095262011      Collected: 04/23/14 19:09      Received: 04/24/14 13:40      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	2390	ug/L	28.0	13.7	10		04/29/14 11:21	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 21:55	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 21:55	7440-36-0	
Copper, Dissolved	0.45J	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 21:55	7440-50-8	
Iron, Dissolved	44000	ug/L	250	4.4	1	04/25/14 10:17	04/28/14 21:55	7439-89-6	
Manganese, Dissolved	2250	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 21:55	7439-96-5	
Nickel, Dissolved	0.79J	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 21:55	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 21:55	7440-22-4	
Vanadium, Dissolved	3.8	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 21:55	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 21:55	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	158J	ug/L	238	34.6	5000	04/28/14 12:00	05/01/14 19:30	83-32-9	
Acenaphthylene	<31.9	ug/L	238	31.9	5000	04/28/14 12:00	05/01/14 19:30	208-96-8	
Anthracene	<33.9	ug/L	238	33.9	5000	04/28/14 12:00	05/01/14 19:30	120-12-7	
Benzo(a)anthracene	<26.9	ug/L	238	26.9	5000	04/28/14 12:00	05/01/14 19:30	56-55-3	
Benzo(a)pyrene	<43.8	ug/L	238	43.8	5000	04/28/14 12:00	05/01/14 19:30	50-32-8	
Benzo(b)fluoranthene	<31.1	ug/L	238	31.1	5000	04/28/14 12:00	05/01/14 19:30	205-99-2	
Benzo(g,h,i)perylene	<18.9	ug/L	238	18.9	5000	04/28/14 12:00	05/01/14 19:30	191-24-2	
Benzo(k)fluoranthene	<14.0	ug/L	238	14.0	5000	04/28/14 12:00	05/01/14 19:30	207-08-9	
Chrysene	<15.3	ug/L	238	15.3	5000	04/28/14 12:00	05/01/14 19:30	218-01-9	
Dibenz(a,h)anthracene	<29.6	ug/L	238	29.6	5000	04/28/14 12:00	05/01/14 19:30	53-70-3	
Fluoranthene	<36.2	ug/L	238	36.2	5000	04/28/14 12:00	05/01/14 19:30	206-44-0	
Fluorene	39.3J	ug/L	238	33.1	5000	04/28/14 12:00	05/01/14 19:30	86-73-7	
Indeno(1,2,3-cd)pyrene	<24.6	ug/L	238	24.6	5000	04/28/14 12:00	05/01/14 19:30	193-39-5	
1-Methylnaphthalene	206J	ug/L	238	31.5	5000	04/28/14 12:00	05/01/14 19:30	90-12-0	
2-Methylnaphthalene	83.1J	ug/L	238	32.4	5000	04/28/14 12:00	05/01/14 19:30	91-57-6	
Naphthalene	1350	ug/L	238	40.9	5000	04/28/14 12:00	05/01/14 19:30	91-20-3	
Phenanthrene	<41.8	ug/L	238	41.8	5000	04/28/14 12:00	05/01/14 19:30	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

Sample: 042314011      Lab ID: 4095262011      Collected: 04/23/14 19:09      Received: 04/24/14 13:40      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Pyrene	<38.3	ug/L	238	38.3	5000	04/28/14 12:00	05/01/14 19:30	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0 %		24-130		5000	04/28/14 12:00	05/01/14 19:30	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-169		5000	04/28/14 12:00	05/01/14 19:30	1718-51-0	S4
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	426	ug/L	10.0	5.0	10		04/25/14 17:31	71-43-2	
Ethylbenzene	460	ug/L	10.0	5.0	10		04/25/14 17:31	100-41-4	
Toluene	13.3	ug/L	10.0	5.0	10		04/25/14 17:31	108-88-3	
m&p-Xylene	30.5	ug/L	20.0	10.0	10		04/25/14 17:31	179601-23-1	
o-Xylene	124	ug/L	10.0	5.0	10		04/25/14 17:31	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	114 %		70-130		10		04/25/14 17:31	1868-53-7	
Toluene-d8 (S)	99 %		70-130		10		04/25/14 17:31	2037-26-5	
4-Bromofluorobenzene (S)	99 %		59-130		10		04/25/14 17:31	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	2.7J	mg/L	4.0	2.0	1		04/25/14 11:37	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	892	mg/L	100	37.5	5		05/02/14 12:56		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/25/14 14:08		

Sample: 042414012      Lab ID: 4095262012      Collected: 04/24/14 07:16      Received: 04/24/14 13:40      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	203	ug/L	2.8	1.4	1		04/29/14 09:48	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 22:02	7429-90-5	
Antimony, Dissolved	0.15J	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 22:02	7440-36-0	
Copper, Dissolved	1.1	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 22:02	7440-50-8	
Iron, Dissolved	5740	ug/L	250	4.4	1	04/25/14 10:17	04/28/14 22:02	7439-89-6	
Manganese, Dissolved	231	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 22:02	7439-96-5	
Nickel, Dissolved	1.4	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 22:02	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 22:02	7440-22-4	
Vanadium, Dissolved	2.4	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 22:02	7440-62-2	
Zinc, Dissolved	9.0J	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 22:02	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

**Sample: 042414012**      **Lab ID: 4095262012**      Collected: 04/24/14 07:16      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	<1.4	ug/L	9.4	1.4	200	04/28/14 12:00	05/01/14 19:47	83-32-9	
Acenaphthylene	<1.3	ug/L	9.4	1.3	200	04/28/14 12:00	05/01/14 19:47	208-96-8	
Anthracene	<1.3	ug/L	9.4	1.3	200	04/28/14 12:00	05/01/14 19:47	120-12-7	
Benzo(a)anthracene	<1.1	ug/L	9.4	1.1	200	04/28/14 12:00	05/01/14 19:47	56-55-3	
Benzo(a)pyrene	<1.7	ug/L	9.4	1.7	200	04/28/14 12:00	05/01/14 19:47	50-32-8	
Benzo(b)fluoranthene	<1.2	ug/L	9.4	1.2	200	04/28/14 12:00	05/01/14 19:47	205-99-2	
Benzo(g,h,i)perylene	<0.75	ug/L	9.4	0.75	200	04/28/14 12:00	05/01/14 19:47	191-24-2	
Benzo(k)fluoranthene	<0.55	ug/L	9.4	0.55	200	04/28/14 12:00	05/01/14 19:47	207-08-9	
Chrysene	<0.61	ug/L	9.4	0.61	200	04/28/14 12:00	05/01/14 19:47	218-01-9	
Dibenz(a,h)anthracene	<1.2	ug/L	9.4	1.2	200	04/28/14 12:00	05/01/14 19:47	53-70-3	
Fluoranthene	<1.4	ug/L	9.4	1.4	200	04/28/14 12:00	05/01/14 19:47	206-44-0	
Fluorene	<1.3	ug/L	9.4	1.3	200	04/28/14 12:00	05/01/14 19:47	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.97	ug/L	9.4	0.97	200	04/28/14 12:00	05/01/14 19:47	193-39-5	
1-Methylnaphthalene	1.5J	ug/L	9.4	1.2	200	04/28/14 12:00	05/01/14 19:47	90-12-0	
2-Methylnaphthalene	<1.3	ug/L	9.4	1.3	200	04/28/14 12:00	05/01/14 19:47	91-57-6	
Naphthalene	68.5	ug/L	9.4	1.6	200	04/28/14 12:00	05/01/14 19:47	91-20-3	
Phenanthrene	<1.7	ug/L	9.4	1.7	200	04/28/14 12:00	05/01/14 19:47	85-01-8	
Pyrene	<1.5	ug/L	9.4	1.5	200	04/28/14 12:00	05/01/14 19:47	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0 %		24-130		200	04/28/14 12:00	05/01/14 19:47	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-169		200	04/28/14 12:00	05/01/14 19:47	1718-51-0	S4
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/25/14 13:13	71-43-2	
Ethylbenzene	81.6	ug/L	1.0	0.50	1		04/25/14 13:13	100-41-4	
Toluene	0.62J	ug/L	1.0	0.50	1		04/25/14 13:13	108-88-3	
m&p-Xylene	123	ug/L	2.0	1.0	1		04/25/14 13:13	179601-23-1	
o-Xylene	249	ug/L	1.0	0.50	1		04/25/14 13:13	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	109 %		70-130		1		04/25/14 13:13	1868-53-7	
Toluene-d8 (S)	98 %		70-130		1		04/25/14 13:13	2037-26-5	
4-Bromofluorobenzene (S)	100 %		59-130		1		04/25/14 13:13	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	19.3	mg/L	4.0	2.0	1		04/25/14 11:45	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	386	mg/L	20.0	7.5	1		05/02/14 11:48		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/25/14 14:09		

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

**Sample: 042414013**      **Lab ID: 4095262013**      Collected: 04/24/14 07:53      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/29/14 09:55	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 22:09	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 22:09	7440-36-0	
Copper, Dissolved	2.4	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 22:09	7440-50-8	
Iron, Dissolved	17.5J	ug/L	250	4.4	1	04/25/14 10:17	04/28/14 22:09	7439-89-6	
Manganese, Dissolved	519	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 22:09	7439-96-5	
Nickel, Dissolved	1.3	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 22:09	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 22:09	7440-22-4	
Vanadium, Dissolved	<0.15	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 22:09	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 22:09	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	<0.0068	ug/L	0.047	0.0068	1	04/30/14 12:00	05/01/14 20:40	83-32-9	
Acenaphthylene	<0.0063	ug/L	0.047	0.0063	1	04/30/14 12:00	05/01/14 20:40	208-96-8	
Anthracene	0.0076J	ug/L	0.047	0.0067	1	04/30/14 12:00	05/01/14 20:40	120-12-7	
Benzo(a)anthracene	0.0063J	ug/L	0.047	0.0053	1	04/30/14 12:00	05/01/14 20:40	56-55-3	
Benzo(a)pyrene	<0.0087	ug/L	0.047	0.0087	1	04/30/14 12:00	05/01/14 20:40	50-32-8	
Benzo(b)fluoranthene	0.0069J	ug/L	0.047	0.0062	1	04/30/14 12:00	05/01/14 20:40	205-99-2	
Benzo(g,h,i)perylene	0.0059J	ug/L	0.047	0.0037	1	04/30/14 12:00	05/01/14 20:40	191-24-2	
Benzo(k)fluoranthene	0.0072J	ug/L	0.047	0.0028	1	04/30/14 12:00	05/01/14 20:40	207-08-9	
Chrysene	0.0091J	ug/L	0.047	0.0030	1	04/30/14 12:00	05/01/14 20:40	218-01-9	
Dibenz(a,h)anthracene	<0.0059	ug/L	0.047	0.0059	1	04/30/14 12:00	05/01/14 20:40	53-70-3	
Fluoranthene	0.013J	ug/L	0.047	0.0072	1	04/30/14 12:00	05/01/14 20:40	206-44-0	
Fluorene	<0.0066	ug/L	0.047	0.0066	1	04/30/14 12:00	05/01/14 20:40	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0049	ug/L	0.047	0.0049	1	04/30/14 12:00	05/01/14 20:40	193-39-5	
1-Methylnaphthalene	<0.0062	ug/L	0.047	0.0062	1	04/30/14 12:00	05/01/14 20:40	90-12-0	
2-Methylnaphthalene	<0.0064	ug/L	0.047	0.0064	1	04/30/14 12:00	05/01/14 20:40	91-57-6	
Naphthalene	<0.0081	ug/L	0.047	0.0081	1	04/30/14 12:00	05/01/14 20:40	91-20-3	
Phenanthrene	0.013J	ug/L	0.047	0.0083	1	04/30/14 12:00	05/01/14 20:40	85-01-8	
Pyrene	0.017J	ug/L	0.047	0.0076	1	04/30/14 12:00	05/01/14 20:40	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	48	%	24-130		1	04/30/14 12:00	05/01/14 20:40	321-60-8	
Terphenyl-d14 (S)	110	%	44-169		1	04/30/14 12:00	05/01/14 20:40	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/25/14 13:36	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/25/14 13:36	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/25/14 13:36	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/25/14 13:36	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/25/14 13:36	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	108	%	70-130		1		04/25/14 13:36	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/25/14 13:36	2037-26-5	
4-Bromofluorobenzene (S)	93	%	59-130		1		04/25/14 13:36	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

Sample: 042414013      Lab ID: 4095262013      Collected: 04/24/14 07:53      Received: 04/24/14 13:40      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	118	mg/L	20.0	10.0	5		04/25/14 15:49	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	305	mg/L	20.0	7.5	1		05/02/14 11:49		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	2.9	mg/L	0.25	0.095	1		04/25/14 14:10		

Sample: 042414014      Lab ID: 4095262014      Collected: 04/24/14 07:58      Received: 04/24/14 13:40      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/29/14 10:02	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 22:15	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 22:15	7440-36-0	
Copper, Dissolved	2.5	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 22:15	7440-50-8	
Iron, Dissolved	14.3J	ug/L	250	4.4	1	04/25/14 10:17	04/28/14 22:15	7439-89-6	
Manganese, Dissolved	519	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 22:15	7439-96-5	
Nickel, Dissolved	1.5	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 22:15	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 22:15	7440-22-4	
Vanadium, Dissolved	<0.15	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 22:15	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 22:15	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	<0.0073	ug/L	0.051	0.0073	1	04/30/14 12:00	05/01/14 20:58	83-32-9	
Acenaphthylene	<0.0068	ug/L	0.051	0.0068	1	04/30/14 12:00	05/01/14 20:58	208-96-8	
Anthracene	<0.0072	ug/L	0.051	0.0072	1	04/30/14 12:00	05/01/14 20:58	120-12-7	
Benzo(a)anthracene	<0.0057	ug/L	0.051	0.0057	1	04/30/14 12:00	05/01/14 20:58	56-55-3	
Benzo(a)pyrene	<0.0093	ug/L	0.051	0.0093	1	04/30/14 12:00	05/01/14 20:58	50-32-8	
Benzo(b)fluoranthene	<0.0066	ug/L	0.051	0.0066	1	04/30/14 12:00	05/01/14 20:58	205-99-2	
Benzo(g,h,i)perylene	<0.0040	ug/L	0.051	0.0040	1	04/30/14 12:00	05/01/14 20:58	191-24-2	
Benzo(k)fluoranthene	0.0038J	ug/L	0.051	0.0030	1	04/30/14 12:00	05/01/14 20:58	207-08-9	
Chrysene	0.0047J	ug/L	0.051	0.0033	1	04/30/14 12:00	05/01/14 20:58	218-01-9	
Dibenz(a,h)anthracene	<0.0063	ug/L	0.051	0.0063	1	04/30/14 12:00	05/01/14 20:58	53-70-3	
Fluoranthene	<0.0077	ug/L	0.051	0.0077	1	04/30/14 12:00	05/01/14 20:58	206-44-0	
Fluorene	<0.0070	ug/L	0.051	0.0070	1	04/30/14 12:00	05/01/14 20:58	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0052	ug/L	0.051	0.0052	1	04/30/14 12:00	05/01/14 20:58	193-39-5	
1-Methylnaphthalene	<0.0067	ug/L	0.051	0.0067	1	04/30/14 12:00	05/01/14 20:58	90-12-0	
2-Methylnaphthalene	<0.0069	ug/L	0.051	0.0069	1	04/30/14 12:00	05/01/14 20:58	91-57-6	
Naphthalene	<0.0087	ug/L	0.051	0.0087	1	04/30/14 12:00	05/01/14 20:58	91-20-3	
Phenanthrene	<0.0089	ug/L	0.051	0.0089	1	04/30/14 12:00	05/01/14 20:58	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

**Sample: 042414014**      **Lab ID: 4095262014**      Collected: 04/24/14 07:58      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Pyrene	<b>0.010J</b>	ug/L	0.051	0.0081	1	04/30/14 12:00	05/01/14 20:58	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	48 %		24-130		1	04/30/14 12:00	05/01/14 20:58	321-60-8	
Terphenyl-d14 (S)	105 %		44-169		1	04/30/14 12:00	05/01/14 20:58	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 14:00	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 14:00	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 14:00	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/25/14 14:00	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/25/14 14:00	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	110 %		70-130		1		04/25/14 14:00	1868-53-7	
Toluene-d8 (S)	100 %		70-130		1		04/25/14 14:00	2037-26-5	
4-Bromofluorobenzene (S)	94 %		59-130		1		04/25/14 14:00	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>119</b>	mg/L	20.0	10.0	5		04/25/14 15:57	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>305</b>	mg/L	20.0	7.5	1		05/02/14 11:50		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>2.9</b>	mg/L	0.25	0.095	1		04/25/14 14:11		

**Sample: 042414015**      **Lab ID: 4095262015**      Collected: 04/24/14 08:47      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified									
Methane	<b>&lt;1.4</b>	ug/L	2.8	1.4	1		04/29/14 10:09	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 22:36	7429-90-5	
Antimony, Dissolved	<b>0.60J</b>	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 22:36	7440-36-0	
Copper, Dissolved	<b>5.7</b>	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 22:36	7440-50-8	
Iron, Dissolved	<b>22.4J</b>	ug/L	250	4.4	1	04/25/14 10:17	04/28/14 22:36	7439-89-6	
Manganese, Dissolved	<b>2.5</b>	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 22:36	7439-96-5	
Nickel, Dissolved	<b>2.0</b>	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 22:36	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 22:36	7440-22-4	
Vanadium, Dissolved	<b>1.3</b>	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 22:36	7440-62-2	
Zinc, Dissolved	<b>21.4</b>	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 22:36	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

**Sample: 042414015**      **Lab ID: 4095262015**      Collected: 04/24/14 08:47      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510							
Acenaphthene	<0.0068	ug/L	0.047	0.0068	1	04/30/14 12:00	05/01/14 21:15	83-32-9	
Acenaphthylene	<0.0063	ug/L	0.047	0.0063	1	04/30/14 12:00	05/01/14 21:15	208-96-8	
Anthracene	0.034J	ug/L	0.047	0.0067	1	04/30/14 12:00	05/01/14 21:15	120-12-7	
Benzo(a)anthracene	0.0071J	ug/L	0.047	0.0053	1	04/30/14 12:00	05/01/14 21:15	56-55-3	
Benzo(a)pyrene	0.010J	ug/L	0.047	0.0087	1	04/30/14 12:00	05/01/14 21:15	50-32-8	
Benzo(b)fluoranthene	0.0099J	ug/L	0.047	0.0062	1	04/30/14 12:00	05/01/14 21:15	205-99-2	
Benzo(g,h,i)perylene	0.0094J	ug/L	0.047	0.0037	1	04/30/14 12:00	05/01/14 21:15	191-24-2	
Benzo(k)fluoranthene	0.011J	ug/L	0.047	0.0028	1	04/30/14 12:00	05/01/14 21:15	207-08-9	
Chrysene	0.012J	ug/L	0.047	0.0030	1	04/30/14 12:00	05/01/14 21:15	218-01-9	
Dibenz(a,h)anthracene	<0.0059	ug/L	0.047	0.0059	1	04/30/14 12:00	05/01/14 21:15	53-70-3	
Fluoranthene	0.021J	ug/L	0.047	0.0072	1	04/30/14 12:00	05/01/14 21:15	206-44-0	
Fluorene	<0.0066	ug/L	0.047	0.0066	1	04/30/14 12:00	05/01/14 21:15	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0079J	ug/L	0.047	0.0049	1	04/30/14 12:00	05/01/14 21:15	193-39-5	
1-Methylnaphthalene	<0.0062	ug/L	0.047	0.0062	1	04/30/14 12:00	05/01/14 21:15	90-12-0	
2-Methylnaphthalene	<0.0064	ug/L	0.047	0.0064	1	04/30/14 12:00	05/01/14 21:15	91-57-6	
Naphthalene	<0.0081	ug/L	0.047	0.0081	1	04/30/14 12:00	05/01/14 21:15	91-20-3	
Phenanthrene	0.012J	ug/L	0.047	0.0083	1	04/30/14 12:00	05/01/14 21:15	85-01-8	
Pyrene	0.017J	ug/L	0.047	0.0076	1	04/30/14 12:00	05/01/14 21:15	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	45 %		24-130		1	04/30/14 12:00	05/01/14 21:15	321-60-8	
Terphenyl-d14 (S)	92 %		44-169		1	04/30/14 12:00	05/01/14 21:15	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		04/25/14 14:23	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/25/14 14:23	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/25/14 14:23	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/25/14 14:23	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/25/14 14:23	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	111 %		70-130		1		04/25/14 14:23	1868-53-7	
Toluene-d8 (S)	100 %		70-130		1		04/25/14 14:23	2037-26-5	
4-Bromofluorobenzene (S)	95 %		59-130		1		04/25/14 14:23	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	130	mg/L	20.0	10.0	5		04/25/14 16:05	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	469	mg/L	100	37.5	5		05/02/14 12:57		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	14.0	mg/L	1.2	0.48	5		04/25/14 14:47		

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

**Sample: 042414016**      **Lab ID: 4095262016**      Collected: 04/24/14 09:24      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	24.6	ug/L	2.8	1.4	1		04/29/14 10:16	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/25/14 10:17	04/28/14 22:43	7429-90-5	
Antimony, Dissolved	0.11J	ug/L	1.0	0.073	1	04/25/14 10:17	04/28/14 22:43	7440-36-0	
Copper, Dissolved	1.1	ug/L	1.0	0.26	1	04/25/14 10:17	04/28/14 22:43	7440-50-8	
Iron, Dissolved	6840	ug/L	250	4.4	1	04/25/14 10:17	04/28/14 22:43	7439-89-6	
Manganese, Dissolved	438	ug/L	1.0	0.18	1	04/25/14 10:17	04/28/14 22:43	7439-96-5	
Nickel, Dissolved	2.5	ug/L	1.0	0.11	1	04/25/14 10:17	04/28/14 22:43	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/25/14 10:17	04/28/14 22:43	7440-22-4	
Vanadium, Dissolved	1.2	ug/L	1.0	0.15	1	04/25/14 10:17	04/28/14 22:43	7440-62-2	
Zinc, Dissolved	8.5J	ug/L	10.0	3.1	1	04/25/14 10:17	04/28/14 22:43	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.014J	ug/L	0.047	0.0068	1	04/30/14 12:00	05/01/14 23:18	83-32-9	
Acenaphthylene	0.0075J	ug/L	0.047	0.0063	1	04/30/14 12:00	05/01/14 23:18	208-96-8	
Anthracene	0.040J	ug/L	0.047	0.0067	1	04/30/14 12:00	05/01/14 23:18	120-12-7	
Benzo(a)anthracene	0.031J	ug/L	0.047	0.0053	1	04/30/14 12:00	05/01/14 23:18	56-55-3	
Benzo(a)pyrene	0.031J	ug/L	0.047	0.0087	1	04/30/14 12:00	05/01/14 23:18	50-32-8	
Benzo(b)fluoranthene	0.025J	ug/L	0.047	0.0062	1	04/30/14 12:00	05/01/14 23:18	205-99-2	
Benzo(g,h,i)perylene	0.023J	ug/L	0.047	0.0037	1	04/30/14 12:00	05/01/14 23:18	191-24-2	
Benzo(k)fluoranthene	0.027J	ug/L	0.047	0.0028	1	04/30/14 12:00	05/01/14 23:18	207-08-9	
Chrysene	0.042J	ug/L	0.047	0.0030	1	04/30/14 12:00	05/01/14 23:18	218-01-9	
Dibenz(a,h)anthracene	0.0070J	ug/L	0.047	0.0059	1	04/30/14 12:00	05/01/14 23:18	53-70-3	
Fluoranthene	0.099	ug/L	0.047	0.0072	1	04/30/14 12:00	05/01/14 23:18	206-44-0	
Fluorene	0.020J	ug/L	0.047	0.0066	1	04/30/14 12:00	05/01/14 23:18	86-73-7	
Indeno(1,2,3-cd)pyrene	0.017J	ug/L	0.047	0.0049	1	04/30/14 12:00	05/01/14 23:18	193-39-5	
1-Methylnaphthalene	<0.0062	ug/L	0.047	0.0062	1	04/30/14 12:00	05/01/14 23:18	90-12-0	
2-Methylnaphthalene	<0.0064	ug/L	0.047	0.0064	1	04/30/14 12:00	05/01/14 23:18	91-57-6	
Naphthalene	0.029J	ug/L	0.047	0.0081	1	04/30/14 12:00	05/01/14 23:18	91-20-3	
Phenanthrene	0.058	ug/L	0.047	0.0083	1	04/30/14 12:00	05/01/14 23:18	85-01-8	
Pyrene	0.093	ug/L	0.047	0.0076	1	04/30/14 12:00	05/01/14 23:18	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	24-130		1	04/30/14 12:00	05/01/14 23:18	321-60-8	
Terphenyl-d14 (S)	86	%	44-169		1	04/30/14 12:00	05/01/14 23:18	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/25/14 14:47	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/25/14 14:47	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/25/14 14:47	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/25/14 14:47	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/25/14 14:47	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	112	%	70-130		1		04/25/14 14:47	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/25/14 14:47	2037-26-5	
4-Bromofluorobenzene (S)	93	%	59-130		1		04/25/14 14:47	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

**Sample: 042414016**      **Lab ID: 4095262016**      Collected: 04/24/14 09:24      Received: 04/24/14 13:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>193</b>	mg/L	20.0	10.0	5		04/25/14 12:18	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub>	<b>394</b>	mg/L	20.0	7.5	1		05/02/14 11:51		
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO <sub>2</sub> plus NO <sub>3</sub>	<b>0.11J</b>	mg/L	0.25	0.095	1		04/25/14 14:13		

Sample information not shared due to sample being from another site.

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**QUALITY CONTROL DATA**

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

QC Batch: GCV/12272 Analysis Method: EPA 8015B Modified  
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV  
Associated Lab Samples: 4095262001, 4095262002, 4095262003, 4095262004, 4095262005, 4095262006, 4095262007, 4095262008, 4095262009, 4095262010, 4095262011, 4095262012, 4095262013, 4095262014, 4095262015, 4095262016

METHOD BLANK: 963260 Matrix: Water  
Associated Lab Samples: 4095262001, 4095262002, 4095262003, 4095262004, 4095262005, 4095262006, 4095262007, 4095262008, 4095262009, 4095262010, 4095262011, 4095262012, 4095262013, 4095262014, 4095262015, 4095262016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<1.4	2.8	04/29/14 07:30	

LABORATORY CONTROL SAMPLE & LCSD: 963261 963262

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	24.6	25.1	86	88	77-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 963263 963264

Parameter	Units	4095262001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	13700	2860	2860	19300	18800	195	179	63-129	2	20	M1

**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

QC Batch: MPRP/10127 Analysis Method: EPA 6020  
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
Associated Lab Samples: 4095262001, 4095262002, 4095262003, 4095262004, 4095262005, 4095262006, 4095262007, 4095262008, 4095262009, 4095262010, 4095262011, 4095262012, 4095262013, 4095262014, 4095262015, 4095262016

METHOD BLANK: 961555 Matrix: Water  
Associated Lab Samples: 4095262001, 4095262002, 4095262003, 4095262004, 4095262005, 4095262006, 4095262007, 4095262008, 4095262009, 4095262010, 4095262011, 4095262012, 4095262013, 4095262014, 4095262015, 4095262016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<68.7	250	04/28/14 19:52	
Antimony, Dissolved	ug/L	<0.073	1.0	04/28/14 19:52	
Copper, Dissolved	ug/L	<0.26	1.0	04/28/14 19:52	
Iron, Dissolved	ug/L	<4.4	250	04/28/14 19:52	
Manganese, Dissolved	ug/L	<0.18	1.0	04/28/14 19:52	
Nickel, Dissolved	ug/L	<0.11	1.0	04/28/14 19:52	
Silver, Dissolved	ug/L	<0.016	0.50	04/28/14 19:52	
Vanadium, Dissolved	ug/L	<0.15	1.0	04/28/14 19:52	
Zinc, Dissolved	ug/L	<3.1	10.0	04/28/14 19:52	

LABORATORY CONTROL SAMPLE: 961566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	4900	98	80-120	
Antimony, Dissolved	ug/L	500	512	102	80-120	
Copper, Dissolved	ug/L	500	509	102	80-120	
Iron, Dissolved	ug/L	5000	4990	100	80-120	
Manganese, Dissolved	ug/L	500	489	98	80-120	
Nickel, Dissolved	ug/L	500	507	101	80-120	
Silver, Dissolved	ug/L	250	250	100	80-120	
Vanadium, Dissolved	ug/L	500	494	99	80-120	
Zinc, Dissolved	ug/L	500	506	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 961567 961568

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		4095262001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum, Dissolved	ug/L	<68.7	5000	5000	4550	4550	91	91	75-125	0	20	
Antimony, Dissolved	ug/L	0.26J	500	500	510	504	102	101	75-125	1	20	
Copper, Dissolved	ug/L	0.80J	500	500	472	477	94	95	75-125	1	20	
Iron, Dissolved	ug/L	14800	5000	5000	19600	19600	96	96	75-125	0	20	
Manganese, Dissolved	ug/L	897	500	500	1410	1420	103	104	75-125	0	20	
Nickel, Dissolved	ug/L	0.88J	500	500	474	480	95	96	75-125	1	20	
Silver, Dissolved	ug/L	0.068J	250	250	223	224	89	90	75-125	0	20	
Vanadium, Dissolved	ug/L	0.84J	500	500	493	494	98	99	75-125	0	20	
Zinc, Dissolved	ug/L	<3.1	500	500	489	489	97	97	75-125	0	20	

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### QUALITY CONTROL DATA

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

QC Batch: MSV/23945 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
 Associated Lab Samples: 4095262001, 4095262002, 4095262003, 4095262004, 4095262005, 4095262006, 4095262007, 4095262008, 4095262009, 4095262010, 4095262011, 4095262012, 4095262013, 4095262014, 4095262015, 4095262016, 4095262017

METHOD BLANK: 961472 Matrix: Water

Associated Lab Samples: 4095262001, 4095262002, 4095262003, 4095262004, 4095262005, 4095262006, 4095262007, 4095262008, 4095262009, 4095262010, 4095262011, 4095262012, 4095262013, 4095262014, 4095262015, 4095262016, 4095262017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	04/25/14 09:11	
Ethylbenzene	ug/L	<0.50	1.0	04/25/14 09:11	
m&p-Xylene	ug/L	<1.0	2.0	04/25/14 09:11	
o-Xylene	ug/L	<0.50	1.0	04/25/14 09:11	
Toluene	ug/L	<0.50	1.0	04/25/14 09:11	
4-Bromofluorobenzene (S)	%	94	59-130	04/25/14 09:11	
Dibromofluoromethane (S)	%	108	70-130	04/25/14 09:11	
Toluene-d8 (S)	%	100	70-130	04/25/14 09:11	

LABORATORY CONTROL SAMPLE & LCSD: 961473 961474

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	59.1	58.9	118	118	70-130	0	20	
Ethylbenzene	ug/L	50	55.8	55.4	112	111	70-130	1	20	
m&p-Xylene	ug/L	100	111	111	111	111	70-131	0	20	
o-Xylene	ug/L	50	54.4	54.5	109	109	70-130	0	20	
Toluene	ug/L	50	55.6	55.1	111	110	70-130	1	20	
4-Bromofluorobenzene (S)	%				101	102	59-130			
Dibromofluoromethane (S)	%				107	107	70-130			
Toluene-d8 (S)	%				100	100	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 961475 961476

Parameter	Units	4095262001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	59.5	59.2	119	118	70-130	1	20	
Ethylbenzene	ug/L	<0.50	50	50	54.4	54.9	109	110	70-130	1	20	
m&p-Xylene	ug/L	<1.0	100	100	110	109	110	109	70-135	1	20	
o-Xylene	ug/L	<0.50	50	50	53.3	54.0	107	108	70-130	1	20	
Toluene	ug/L	<0.50	50	50	54.4	54.5	109	109	70-130	0	20	
4-Bromofluorobenzene (S)	%						100	101	59-130			
Dibromofluoromethane (S)	%						110	110	70-130			
Toluene-d8 (S)	%						100	100	70-130			

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### QUALITY CONTROL DATA

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

QC Batch: OEXT/22102 Analysis Method: EPA 8270 by SIM  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV  
 Associated Lab Samples: 4095262002, 4095262003, 4095262004, 4095262005, 4095262006, 4095262007

METHOD BLANK: 961396 Matrix: Water  
 Associated Lab Samples: 4095262002, 4095262003, 4095262004, 4095262005, 4095262006, 4095262007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0066	0.050	04/25/14 10:30	
2-Methylnaphthalene	ug/L	<0.0068	0.050	04/25/14 10:30	
Acenaphthene	ug/L	<0.0073	0.050	04/25/14 10:30	
Acenaphthylene	ug/L	<0.0067	0.050	04/25/14 10:30	
Anthracene	ug/L	<0.0071	0.050	04/25/14 10:30	
Benzo(a)anthracene	ug/L	<0.0056	0.050	04/25/14 10:30	
Benzo(a)pyrene	ug/L	<0.0092	0.050	04/25/14 10:30	
Benzo(b)fluoranthene	ug/L	<0.0065	0.050	04/25/14 10:30	
Benzo(g,h,i)perylene	ug/L	<0.0040	0.050	04/25/14 10:30	
Benzo(k)fluoranthene	ug/L	<0.0029	0.050	04/25/14 10:30	
Chrysene	ug/L	<0.0032	0.050	04/25/14 10:30	
Dibenz(a,h)anthracene	ug/L	<0.0062	0.050	04/25/14 10:30	
Fluoranthene	ug/L	<0.0076	0.050	04/25/14 10:30	
Fluorene	ug/L	<0.0070	0.050	04/25/14 10:30	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0052	0.050	04/25/14 10:30	
Naphthalene	ug/L	0.012J	0.050	04/25/14 10:30	
Phenanthrene	ug/L	<0.0088	0.050	04/25/14 10:30	
Pyrene	ug/L	<0.0080	0.050	04/25/14 10:30	
2-Fluorobiphenyl (S)	%	70	24-130	04/25/14 10:30	
Terphenyl-d14 (S)	%	90	44-169	04/25/14 10:30	

LABORATORY CONTROL SAMPLE: 961397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.12	60	35-130	
2-Methylnaphthalene	ug/L	.2	0.12	61	32-130	
Acenaphthene	ug/L	.2	0.12	59	30-130	
Acenaphthylene	ug/L	.2	0.13	67	28-130	
Anthracene	ug/L	.2	0.15	76	22-130	
Benzo(a)anthracene	ug/L	.2	0.16	81	40-130	
Benzo(a)pyrene	ug/L	.2	0.18	89	51-130	
Benzo(b)fluoranthene	ug/L	.2	0.14	72	45-130	
Benzo(g,h,i)perylene	ug/L	.2	0.15	77	59-130	
Benzo(k)fluoranthene	ug/L	.2	0.19	94	60-130	
Chrysene	ug/L	.2	0.18	92	62-130	
Dibenz(a,h)anthracene	ug/L	.2	0.15	73	51-130	
Fluoranthene	ug/L	.2	0.16	80	43-130	
Fluorene	ug/L	.2	0.13	63	29-130	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.16	79	56-130	
Naphthalene	ug/L	.2	0.12	62	30-130	
Phenanthrene	ug/L	.2	0.12	62	29-130	

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### QUALITY CONTROL DATA

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

LABORATORY CONTROL SAMPLE: 961397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	.2	0.14	71	38-130	
2-Fluorobiphenyl (S)	%			55	24-130	
Terphenyl-d14 (S)	%			85	44-169	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 961398 961399

Parameter	Units	4095079002		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
1-Methylnaphthalene	ug/L	0.027J	.2	.2	.2	0.17	0.15	75	61	10-130	16	50		
2-Methylnaphthalene	ug/L	0.014J	.2	.2	.2	0.16	0.15	76	68	10-130	9	50		
Acenaphthene	ug/L	<0.0074	.2	.2	.2	0.15	0.14	74	68	10-130	7	50		
Acenaphthylene	ug/L	0.044J	.2	.2	.2	0.21	0.17	86	63	10-130	23	50		
Anthracene	ug/L	0.010J	.2	.2	.2	0.19	0.18	92	85	10-130	7	45		
Benzo(a)anthracene	ug/L	0.0088J	.2	.2	.2	0.16	0.16	77	75	22-130	2	21		
Benzo(a)pyrene	ug/L	<0.0094	.2	.2	.2	0.16	0.16	78	75	40-130	3	20		
Benzo(b)fluoranthene	ug/L	0.0068J	.2	.2	.2	0.14	0.14	67	65	23-130	2	23		
Benzo(g,h,i)perylene	ug/L	0.0074J	.2	.2	.2	0.15	0.15	71	71	30-130	1	21		
Benzo(k)fluoranthene	ug/L	0.011J	.2	.2	.2	0.14	0.15	67	69	50-130	4	20		
Chrysene	ug/L	0.012J	.2	.2	.2	0.18	0.18	84	85	32-147	2	20		
Dibenz(a,h)anthracene	ug/L	<0.0063	.2	.2	.2	0.14	0.14	74	73	14-130	0	26		
Fluoranthene	ug/L	0.017J	.2	.2	.2	0.18	0.17	82	80	37-130	2	30		
Fluorene	ug/L	0.032J	.2	.2	.2	0.18	0.16	75	63	10-130	14	50		
Indeno(1,2,3-cd)pyrene	ug/L	0.0060J	.2	.2	.2	0.16	0.16	76	76	27-130	0	23		
Naphthalene	ug/L	0.33	.2	.2	.2	0.54	0.20	108	-64	10-130	92	50	M1,R1	
Phenanthrene	ug/L	0.037J	.2	.2	.2	0.18	0.16	71	64	13-130	6	50		
Pyrene	ug/L	0.016J	.2	.2	.2	0.16	0.15	74	69	34-130	6	32		
2-Fluorobiphenyl (S)	%							69	67	24-130				
Terphenyl-d14 (S)	%							87	80	44-169				

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### QUALITY CONTROL DATA

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

QC Batch: OEXT/22120 Analysis Method: EPA 8270 by SIM  
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV  
Associated Lab Samples: 4095262001, 4095262008, 4095262009, 4095262010, 4095262011, 4095262012

METHOD BLANK: 962774 Matrix: Water  
Associated Lab Samples: 4095262001, 4095262008, 4095262009, 4095262010, 4095262011, 4095262012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0066	0.050	05/01/14 12:46	
2-Methylnaphthalene	ug/L	<0.0068	0.050	05/01/14 12:46	
Acenaphthene	ug/L	<0.0073	0.050	05/01/14 12:46	
Acenaphthylene	ug/L	<0.0067	0.050	05/01/14 12:46	
Anthracene	ug/L	<0.0071	0.050	05/01/14 12:46	
Benzo(a)anthracene	ug/L	<0.0056	0.050	05/01/14 12:46	
Benzo(a)pyrene	ug/L	<0.0092	0.050	05/01/14 12:46	
Benzo(b)fluoranthene	ug/L	<0.0065	0.050	05/01/14 12:46	
Benzo(g,h,i)perylene	ug/L	<0.0040	0.050	05/01/14 12:46	
Benzo(k)fluoranthene	ug/L	<0.0029	0.050	05/01/14 12:46	
Chrysene	ug/L	<0.0032	0.050	05/01/14 12:46	
Dibenz(a,h)anthracene	ug/L	<0.0062	0.050	05/01/14 12:46	
Fluoranthene	ug/L	<0.0076	0.050	05/01/14 12:46	
Fluorene	ug/L	<0.0070	0.050	05/01/14 12:46	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0052	0.050	05/01/14 12:46	
Naphthalene	ug/L	<0.0086	0.050	05/01/14 12:46	
Phenanthrene	ug/L	<0.0088	0.050	05/01/14 12:46	
Pyrene	ug/L	<0.0080	0.050	05/01/14 12:46	
2-Fluorobiphenyl (S)	%	72	24-130	05/01/14 12:46	
Terphenyl-d14 (S)	%	92	44-169	05/01/14 12:46	

LABORATORY CONTROL SAMPLE: 962775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.15	73	35-130	
2-Methylnaphthalene	ug/L	.2	0.15	74	32-130	
Acenaphthene	ug/L	.2	0.14	72	30-130	
Acenaphthylene	ug/L	.2	0.14	71	28-130	
Anthracene	ug/L	.2	0.14	72	22-130	
Benzo(a)anthracene	ug/L	.2	0.16	80	40-130	
Benzo(a)pyrene	ug/L	.2	0.17	86	51-130	
Benzo(b)fluoranthene	ug/L	.2	0.20	99	45-130	
Benzo(g,h,i)perylene	ug/L	.2	0.17	87	59-130	
Benzo(k)fluoranthene	ug/L	.2	0.16	78	60-130	
Chrysene	ug/L	.2	0.18	89	62-130	
Dibenz(a,h)anthracene	ug/L	.2	0.17	86	51-130	
Fluoranthene	ug/L	.2	0.16	78	43-130	
Fluorene	ug/L	.2	0.15	75	29-130	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.18	88	56-130	
Naphthalene	ug/L	.2	0.14	72	30-130	
Phenanthrene	ug/L	.2	0.16	78	29-130	

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### QUALITY CONTROL DATA

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

LABORATORY CONTROL SAMPLE: 962775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	.2	0.16	81	38-130	
2-Fluorobiphenyl (S)	%			73	24-130	
Terphenyl-d14 (S)	%			85	44-169	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 962776 962777

Parameter	Units	4095262001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
1-Methylnaphthalene	ug/L	0.0076J	.19	.19	.19	0.091	0.11	44	52	10-130	14	50		
2-Methylnaphthalene	ug/L	<0.0064	.19	.19	.19	0.093	0.11	47	55	10-130	14	50		
Acenaphthene	ug/L	0.16	.19	.19	.19	0.23	0.25	34	48	10-130	11	50		
Acenaphthylene	ug/L	0.015J	.19	.19	.19	0.099	0.11	44	51	10-130	11	50		
Anthracene	ug/L	0.056	.19	.19	.19	0.16	0.16	53	55	10-130	2	45		
Benzo(a)anthracene	ug/L	0.0090J	.19	.19	.19	0.16	0.15	81	73	22-130	10	21		
Benzo(a)pyrene	ug/L	<0.0087	.19	.19	.19	0.16	0.15	82	76	40-130	8	20		
Benzo(b)fluoranthene	ug/L	<0.0062	.19	.19	.19	0.15	0.13	76	66	23-130	13	23		
Benzo(g,h,i)perylene	ug/L	0.0061J	.19	.19	.19	0.17	0.15	84	74	30-130	12	21		
Benzo(k)fluoranthene	ug/L	0.0074J	.19	.19	.19	0.15	0.14	78	73	50-130	7	20		
Chrysene	ug/L	0.012J	.19	.19	.19	0.17	0.15	83	75	32-147	10	20		
Dibenz(a,h)anthracene	ug/L	<0.0059	.19	.19	.19	0.17	0.16	89	82	14-130	9	26		
Fluoranthene	ug/L	0.066	.19	.19	.19	0.21	0.19	79	68	37-130	9	30		
Fluorene	ug/L	0.10	.19	.19	.19	0.18	0.22	41	59	10-130	17	50		
Indeno(1,2,3-cd)pyrene	ug/L	<0.0049	.19	.19	.19	0.18	0.16	91	82	27-130	11	23		
Naphthalene	ug/L	0.0082J	.19	.19	.19	0.093	0.10	45	50	10-130	10	50		
Phenanthrene	ug/L	0.035J	.19	.19	.19	0.13	0.16	52	65	13-130	16	50		
Pyrene	ug/L	0.067	.19	.19	.19	0.21	0.19	76	65	34-130	11	32		
2-Fluorobiphenyl (S)	%							41	46	24-130				
Terphenyl-d14 (S)	%							85	78	44-169				

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

QC Batch: OEXT/22169 Analysis Method: EPA 8270 by SIM  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV  
 Associated Lab Samples: 4095262013, 4095262014, 4095262015, 4095262016

METHOD BLANK: 964080 Matrix: Water  
 Associated Lab Samples: 4095262013, 4095262014, 4095262015, 4095262016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0066	0.050	05/01/14 20:05	
2-Methylnaphthalene	ug/L	<0.0068	0.050	05/01/14 20:05	
Acenaphthene	ug/L	<0.0073	0.050	05/01/14 20:05	
Acenaphthylene	ug/L	<0.0067	0.050	05/01/14 20:05	
Anthracene	ug/L	<0.0071	0.050	05/01/14 20:05	
Benzo(a)anthracene	ug/L	<0.0056	0.050	05/01/14 20:05	
Benzo(a)pyrene	ug/L	<0.0092	0.050	05/01/14 20:05	
Benzo(b)fluoranthene	ug/L	<0.0065	0.050	05/01/14 20:05	
Benzo(g,h,i)perylene	ug/L	<0.0040	0.050	05/01/14 20:05	
Benzo(k)fluoranthene	ug/L	<0.0029	0.050	05/01/14 20:05	
Chrysene	ug/L	<0.0032	0.050	05/01/14 20:05	
Dibenz(a,h)anthracene	ug/L	<0.0062	0.050	05/01/14 20:05	
Fluoranthene	ug/L	<0.0076	0.050	05/01/14 20:05	
Fluorene	ug/L	<0.0070	0.050	05/01/14 20:05	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0052	0.050	05/01/14 20:05	
Naphthalene	ug/L	<0.0086	0.050	05/01/14 20:05	
Phenanthrene	ug/L	<0.0088	0.050	05/01/14 20:05	
Pyrene	ug/L	<0.0080	0.050	05/01/14 20:05	
2-Fluorobiphenyl (S)	%	74	24-130	05/01/14 20:05	
Terphenyl-d14 (S)	%	92	44-169	05/01/14 20:05	

LABORATORY CONTROL SAMPLE: 964081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.14	72	35-130	
2-Methylnaphthalene	ug/L	.2	0.15	74	32-130	
Acenaphthene	ug/L	.2	0.14	69	30-130	
Acenaphthylene	ug/L	.2	0.14	69	28-130	
Anthracene	ug/L	.2	0.14	70	22-130	
Benzo(a)anthracene	ug/L	.2	0.15	76	40-130	
Benzo(a)pyrene	ug/L	.2	0.16	79	51-130	
Benzo(b)fluoranthene	ug/L	.2	0.15	77	45-130	
Benzo(g,h,i)perylene	ug/L	.2	0.16	79	59-130	
Benzo(k)fluoranthene	ug/L	.2	0.16	79	60-130	
Chrysene	ug/L	.2	0.16	82	62-130	
Dibenz(a,h)anthracene	ug/L	.2	0.16	80	51-130	
Fluoranthene	ug/L	.2	0.15	76	43-130	
Fluorene	ug/L	.2	0.14	72	29-130	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.17	83	56-130	
Naphthalene	ug/L	.2	0.14	72	30-130	
Phenanthrene	ug/L	.2	0.15	74	29-130	

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### QUALITY CONTROL DATA

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

LABORATORY CONTROL SAMPLE: 964081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	.2	0.15	76	38-130	
2-Fluorobiphenyl (S)	%			69	24-130	
Terphenyl-d14 (S)	%			90	44-169	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 964082 964083

Parameter	Units	4095345005		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec				
1-Methylnaphthalene	ug/L	<0.0067	.2	.2	.2	0.11	0.092	59	47	10-130	22	50	
2-Methylnaphthalene	ug/L	<0.0069	.2	.2	.2	0.12	0.098	61	50	10-130	21	50	
Acenaphthene	ug/L	<0.0073	.2	.2	.2	0.11	0.086	56	44	10-130	25	50	
Acenaphthylene	ug/L	<0.0068	.2	.2	.2	0.11	0.088	56	45	10-130	23	50	
Anthracene	ug/L	<0.0072	.2	.2	.2	0.13	0.094	67	48	10-130	34	45	
Benzo(a)anthracene	ug/L	<0.0057	.2	.2	.2	0.15	0.15	78	74	22-130	5	21	
Benzo(a)pyrene	ug/L	<0.0093	.2	.2	.2	0.16	0.16	81	79	40-130	3	20	
Benzo(b)fluoranthene	ug/L	<0.0066	.2	.2	.2	0.16	0.15	80	74	23-130	7	23	
Benzo(g,h,i)perylene	ug/L	<0.0040	.2	.2	.2	0.16	0.15	82	77	30-130	6	21	
Benzo(k)fluoranthene	ug/L	<0.0030	.2	.2	.2	0.17	0.16	85	83	50-130	3	20	
Chrysene	ug/L	<0.0033	.2	.2	.2	0.18	0.16	90	80	32-147	12	20	
Dibenz(a,h)anthracene	ug/L	<0.0063	.2	.2	.2	0.16	0.15	81	77	14-130	5	26	
Fluoranthene	ug/L	<0.0077	.2	.2	.2	0.14	0.13	69	65	37-130	6	30	
Fluorene	ug/L	<0.0070	.2	.2	.2	0.12	0.091	60	46	10-130	25	50	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0052	.2	.2	.2	0.17	0.16	84	80	27-130	6	23	
Naphthalene	ug/L	<0.0087	.2	.2	.2	0.12	0.095	58	47	10-130	20	50	
Phenanthrene	ug/L	<0.0089	.2	.2	.2	0.12	0.10	63	51	13-130	21	50	
Pyrene	ug/L	<0.0081	.2	.2	.2	0.14	0.13	72	67	34-130	7	32	
2-Fluorobiphenyl (S)	%							57	45	24-130			
Terphenyl-d14 (S)	%							89	85	44-169			

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### QUALITY CONTROL DATA

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

QC Batch: WETA/22886 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 4095262001, 4095262002, 4095262003, 4095262004, 4095262005, 4095262006, 4095262007, 4095262008, 4095262009, 4095262010, 4095262011, 4095262012, 4095262013, 4095262014, 4095262015, 4095262016

METHOD BLANK: 961525 Matrix: Water  
Associated Lab Samples: 4095262001, 4095262002, 4095262003, 4095262004, 4095262005, 4095262006, 4095262007, 4095262008, 4095262009, 4095262010, 4095262011, 4095262012, 4095262013, 4095262014, 4095262015, 4095262016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	4.0	04/25/14 09:14	

LABORATORY CONTROL SAMPLE: 961526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	18.5	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 961527 961528

Parameter	Units	4095262001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	310	400	400	687	663	94	88	90-110	4	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 961529 961530

Parameter	Units	4095262010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	504	1000	1000	1420	1430	92	92	90-110	1	20	

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

QC Batch:	WETA/22999	Analysis Method:	EPA 310.2
QC Batch Method:	EPA 310.2	Analysis Description:	310.2 Alkalinity
Associated Lab Samples:	4095262001, 4095262002, 4095262003, 4095262004, 4095262005, 4095262006, 4095262007, 4095262008, 4095262009, 4095262010, 4095262011, 4095262012, 4095262013, 4095262014, 4095262015, 4095262016		

METHOD BLANK:	965042	Matrix:	Water
Associated Lab Samples:	4095262001, 4095262002, 4095262003, 4095262004, 4095262005, 4095262006, 4095262007, 4095262008, 4095262009, 4095262010, 4095262011, 4095262012, 4095262013, 4095262014, 4095262015, 4095262016		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.5	20.0	05/02/14 11:34	

LABORATORY CONTROL SAMPLE: 965043						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	109	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 965044												965045	
Parameter	Units	4095262001 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	914	500	500	1380	1370	93	91	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 965046												965047	
Parameter	Units	4095296001 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	519	500	500	983	1050	93	105	90-110	6	20		

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### QUALITY CONTROL DATA

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

QC Batch: WETA/22883 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 4095262001, 4095262002, 4095262003, 4095262004, 4095262005, 4095262006, 4095262007, 4095262008, 4095262009, 4095262010, 4095262011, 4095262012, 4095262013, 4095262014, 4095262015, 4095262016

METHOD BLANK: 961433 Matrix: Water  
Associated Lab Samples: 4095262001, 4095262002, 4095262003, 4095262004, 4095262005, 4095262006, 4095262007, 4095262008, 4095262009, 4095262010, 4095262011, 4095262012, 4095262013, 4095262014, 4095262015, 4095262016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	04/25/14 13:51	

LABORATORY CONTROL SAMPLE: 961434

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 961435 961436

Parameter	Units	4095262001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.095	2.5	2.5	2.0	1.9	80	75	90-110	7	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 961437 961438

Parameter	Units	4095262016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.11J	2.5	2.5	2.5	2.4	98	93	90-110	4	20	

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## QUALIFIERS

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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: MSSV/6677

[IP] Benzo(b)fluoranthene and benzo(k)fluoranthene were in the check standard but did not meet the resolution criteria in SW846 Method 8270C. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

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

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

R1 RPD value was outside control limits.

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4095262001	042314001	EPA 8015B Modified	GCV/12272		
4095262002	042314002	EPA 8015B Modified	GCV/12272		
4095262003	042314003	EPA 8015B Modified	GCV/12272		
4095262004	042314004	EPA 8015B Modified	GCV/12272		
4095262005	042314005	EPA 8015B Modified	GCV/12272		
4095262006	042314006	EPA 8015B Modified	GCV/12272		
4095262007	042314007	EPA 8015B Modified	GCV/12272		
4095262008	042314008	EPA 8015B Modified	GCV/12272		
4095262009	042314009	EPA 8015B Modified	GCV/12272		
4095262010	042314010	EPA 8015B Modified	GCV/12272		
4095262011	042314011	EPA 8015B Modified	GCV/12272		
4095262012	042414012	EPA 8015B Modified	GCV/12272		
4095262013	042414013	EPA 8015B Modified	GCV/12272		
4095262014	042414014	EPA 8015B Modified	GCV/12272		
4095262015	042414015	EPA 8015B Modified	GCV/12272		
4095262016	042414016	EPA 8015B Modified	GCV/12272		
4095262001	042314001	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262002	042314002	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262003	042314003	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262004	042314004	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262005	042314005	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262006	042314006	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262007	042314007	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262008	042314008	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262009	042314009	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262010	042314010	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262011	042314011	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262012	042414012	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262013	042414013	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262014	042414014	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262015	042414015	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262016	042414016	EPA 3010	MPRP/10127	EPA 6020	ICPM/4636
4095262001	042314001	EPA 3510	OEXT/22120	EPA 8270 by SIM	MSSV/6680
4095262002	042314002	EPA 3510	OEXT/22102	EPA 8270 by SIM	MSSV/6677
4095262003	042314003	EPA 3510	OEXT/22102	EPA 8270 by SIM	MSSV/6677
4095262004	042314004	EPA 3510	OEXT/22102	EPA 8270 by SIM	MSSV/6677
4095262005	042314005	EPA 3510	OEXT/22102	EPA 8270 by SIM	MSSV/6677
4095262006	042314006	EPA 3510	OEXT/22102	EPA 8270 by SIM	MSSV/6677
4095262007	042314007	EPA 3510	OEXT/22102	EPA 8270 by SIM	MSSV/6677
4095262008	042314008	EPA 3510	OEXT/22120	EPA 8270 by SIM	MSSV/6680
4095262009	042314009	EPA 3510	OEXT/22120	EPA 8270 by SIM	MSSV/6680
4095262010	042314010	EPA 3510	OEXT/22120	EPA 8270 by SIM	MSSV/6680
4095262011	042314011	EPA 3510	OEXT/22120	EPA 8270 by SIM	MSSV/6680
4095262012	042414012	EPA 3510	OEXT/22120	EPA 8270 by SIM	MSSV/6680
4095262013	042414013	EPA 3510	OEXT/22169	EPA 8270 by SIM	MSSV/6692
4095262014	042414014	EPA 3510	OEXT/22169	EPA 8270 by SIM	MSSV/6692

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 T-17.2 MARINETTE FMR MGP

Pace Project No.: 4095262

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4095262015	042414015	EPA 3510	OEXT/22169	EPA 8270 by SIM	MSSV/6692
4095262016	042414016	EPA 3510	OEXT/22169	EPA 8270 by SIM	MSSV/6692
4095262001	042314001	EPA 8260	MSV/23945		
4095262002	042314002	EPA 8260	MSV/23945		
4095262003	042314003	EPA 8260	MSV/23945		
4095262004	042314004	EPA 8260	MSV/23945		
4095262005	042314005	EPA 8260	MSV/23945		
4095262006	042314006	EPA 8260	MSV/23945		
4095262007	042314007	EPA 8260	MSV/23945		
4095262008	042314008	EPA 8260	MSV/23945		
4095262009	042314009	EPA 8260	MSV/23945		
4095262010	042314010	EPA 8260	MSV/23945		
4095262011	042314011	EPA 8260	MSV/23945		
4095262012	042414012	EPA 8260	MSV/23945		
4095262013	042414013	EPA 8260	MSV/23945		
4095262014	042414014	EPA 8260	MSV/23945		
4095262015	042414015	EPA 8260	MSV/23945		
4095262016	042414016	EPA 8260	MSV/23945		
4095262017	042414017	EPA 8260	MSV/23945		
4095262001	042314001	EPA 300.0	WETA/22886		
4095262002	042314002	EPA 300.0	WETA/22886		
4095262003	042314003	EPA 300.0	WETA/22886		
4095262004	042314004	EPA 300.0	WETA/22886		
4095262005	042314005	EPA 300.0	WETA/22886		
4095262006	042314006	EPA 300.0	WETA/22886		
4095262007	042314007	EPA 300.0	WETA/22886		
4095262008	042314008	EPA 300.0	WETA/22886		
4095262009	042314009	EPA 300.0	WETA/22886		
4095262010	042314010	EPA 300.0	WETA/22886		
4095262011	042314011	EPA 300.0	WETA/22886		
4095262012	042414012	EPA 300.0	WETA/22886		
4095262013	042414013	EPA 300.0	WETA/22886		
4095262014	042414014	EPA 300.0	WETA/22886		
4095262015	042414015	EPA 300.0	WETA/22886		
4095262016	042414016	EPA 300.0	WETA/22886		
4095262001	042314001	EPA 310.2	WETA/22999		
4095262002	042314002	EPA 310.2	WETA/22999		
4095262003	042314003	EPA 310.2	WETA/22999		
4095262004	042314004	EPA 310.2	WETA/22999		
4095262005	042314005	EPA 310.2	WETA/22999		
4095262006	042314006	EPA 310.2	WETA/22999		
4095262007	042314007	EPA 310.2	WETA/22999		
4095262008	042314008	EPA 310.2	WETA/22999		
4095262009	042314009	EPA 310.2	WETA/22999		
4095262010	042314010	EPA 310.2	WETA/22999		
4095262011	042314011	EPA 310.2	WETA/22999		
4095262012	042414012	EPA 310.2	WETA/22999		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 T-17.2 MARINETTE FMR MGP  
Pace Project No.: 4095262

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4095262013	042414013	EPA 310.2	WETA/22999		
4095262014	042414014	EPA 310.2	WETA/22999		
4095262015	042414015	EPA 310.2	WETA/22999		
4095262016	042414016	EPA 310.2	WETA/22999		
4095262001	042314001	EPA 353.2	WETA/22883		
4095262002	042314002	EPA 353.2	WETA/22883		
4095262003	042314003	EPA 353.2	WETA/22883		
4095262004	042314004	EPA 353.2	WETA/22883		
4095262005	042314005	EPA 353.2	WETA/22883		
4095262006	042314006	EPA 353.2	WETA/22883		
4095262007	042314007	EPA 353.2	WETA/22883		
4095262008	042314008	EPA 353.2	WETA/22883		
4095262009	042314009	EPA 353.2	WETA/22883		
4095262010	042314010	EPA 353.2	WETA/22883		
4095262011	042314011	EPA 353.2	WETA/22883		
4095262012	042414012	EPA 353.2	WETA/22883		
4095262013	042414013	EPA 353.2	WETA/22883		
4095262014	042414014	EPA 353.2	WETA/22883		
4095262015	042414015	EPA 353.2	WETA/22883		
4095262016	042414016	EPA 353.2	WETA/22883		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Natural Resource Tech  
 Branch/Location: Milwaukee, WI  
 Project Contact: Brian Hennings  
 Phone: 262-719-4508  
 Project Number: 1549 Task 17.2  
 Project Name: Marquette former MGP  
 Project State: WI  
 Sampled By (Print): Sarah Hanswiler  
 Sampled By (Sign): [Signature]  
 PO #: 34000010643 Regulatory Program:



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

Mar-002-2014

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### CHAIN OF CUSTODY

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

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

Y/N	B	B																
Pick Letter	N	N																
Analyses Requested	BETEX 8021	Methane 8015B																

Quote #: 34000010643  
 Mail To Contact: Jody Barbeau  
 Mail To Company: Natural Resource Tech  
 Mail To Address: 234 W Florida St Milwaukee WI 53204  
 Invoice To Contact: Accounts Payable  
 Invoice To Company: JBS LLC  
 Invoice To Address: PO Box 19500 Green Bay WI  
 Invoice To Phone: 920-433-2929  
 CLIENT COMMENTS  
 LAB COMMENTS (Lab Use Only)  
 Profile #

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV Level 2  
**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample  
**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	B	B												
		DATE	TIME																
001	042314001	4/23/14	1153	GW															
002	042314002		1248																
003	042314003		1332																
004	042314004		1435																
005	042314005		1440																
006	042314006		1538																
007	042314007		1633																
008	042314008		1713																
009	042314009		1752																
010	042314010		1834																
011	042314011		1909																
012	042314012	4/24/14	716																
013	042414013		0753																

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_  
 Relinquished By: [Signature] Date/Time: 4/24/14  
 Received By: [Signature] Date/Time: 4-24-14 1340  
 PACE Project No. 4095262  
 Receipt Temp = 20°C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present Intact / Not Intact

Custody Seal 154903-154904

(Please Print Clearly)

Company Name: Natural Resource Kech  
 Branch/Location: Milwaukee WI  
 Project Contact: Brian Jennings  
 Phone: 262-719-4508  
 Project Number: 1549 Task 17.2  
 Project Name: Marquette Former MSP  
 Project State: WI  
 Sampled By (Print): Sarah Garswiler  
 Sampled By (Sign): [Signature]  
 PO #: 3400010643 Regulatory Program:



UPPER MIDWEST REGION

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

Mar-001-2014

Page 55 of 58

### CHAIN OF CUSTODY

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

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

Y/N	1	2	3	4	5	6	7	8	9	10
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
A	D	D	A	C	A					
Analyses Requested	PAH 8270 C	*Dissolved Metals 6020A	Diss Iron and Diss Manganese	Alkalinity 310.0	Nitrate Nitrite EPA 355.2	Sulfate 300.0				

Quote #: 3400010643  
 Mail To Contact: Jody Barbeau  
 Mail To Company: Natural Resource Kech  
 Mail To Address: 234 W Florida St Milwaukee WI 53204  
 Invoice To Contact: Accounts Payable  
 Invoice To Company: TBS LLC  
 Invoice To Address: Po Box 19800 Green Bay WI  
 Invoice To Phone: 920-433-2929

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV  
Level 2

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	1	2	3	4	5	6	7	8	9	10
		DATE	TIME												
001	042314001	4/23/14	1153	GW	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
002	042314002		1248		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
003	042314003		1332		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
004	042314004		1435		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
005	042314005		1440		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
006	042314006		1538		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

**CLIENT COMMENTS**  
 MS/MSD

**LAB COMMENTS (Lab Use Only)**  
 \*Aluminum, Antimony, Copper, Zinc, Nickel, Silver, Vanadium

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: 4/23/14

Relinquished By: [Signature] Date/Time: 4/23/2014 Received By: [Signature] Date/Time: 4/24/14

Transmit Prelim Rush Results by (complete what you want):

Email #1: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Email #2: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Telephone: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Fax: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 4095262

Receipt Temp: 107 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Custody Seal # 154901 & 154902

(Please Print Clearly)

Company Name: Natural Resource Tech  
 Branch/Location: Milwaukee WI  
 Project Contact: Brian Hennings  
 Phone: 262-719-4508  
 Project Number: 1549  
 Project Name: Marquette Former NRP  
 Project State: WI  
 Sampled By (Print): Sarah Ganswinkel  
 Sampled By (Sign): [Signature]  
 PO #: 34000010643 Regulatory Program:

Data Package Options (billable)  
 EPA Level III  
 EPA Level IV  
Level 2

MS/MSD  
 On your sample (billable)  
 NOT needed on your sample

Matrix Codes  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
007	042314007	4/23/14	1633	GW
008	042314008		1713	α
009	042314009		1752	α
010	042314010		1834	α
011	042314011		1909	α
012	042414012	4/24/14	0716	α
013	042414013		0753	α



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

### CHAIN OF CUSTODY

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

Y/N	Pick Letter	Filtered? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested	Matrix																	
					A	B	C	D	E	F	G	H	I	J								
				FAH 8270	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α
				Dissolved Metals 6020A	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α
				Diss Iron & Manganese	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α
				Alkalinity 310.20	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α
				Nitrate/Nitrite EPA 353.2	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α
				Sulfate 500.00	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α	α

Mer-003-2014

Quote #: 34000010643  
 Mail To Contact: Jody Berbeau  
 Mail To Company: Natural Resource Tech  
 Mail To Address: 234 W Florida St Milwaukee WI  
 Invoice To Contact: Accounts Payable  
 Invoice To Company: IBZ LLC  
 Invoice To Address: PO Box 19800 Green Bay WI  
 Invoice To Phone: 920-433-2929

CLIENT COMMENTS:  LAB COMMENTS (Lab Use Only):  Profile #:

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:   
 Email #2:   
 Telephone:   
 Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <u>[Signature]</u> Date/Time: <u>4/24/14</u>	Received By: <u>[Signature]</u> Date/Time: <u>4/24/14</u>
Relinquished By: <u></u> Date/Time: <u></u>	Received By: <u></u> Date/Time: <u></u>
Relinquished By: <u></u> Date/Time: <u></u>	Received By: <u></u> Date/Time: <u></u>
Relinquished By: <u></u> Date/Time: <u></u>	Received By: <u></u> Date/Time: <u></u>

PACE Project No. 4095202  
 Receipt Temp = 20°C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present Intact / Not Intact

Custody Seal 154905 & 154906

(Please Print Clearly)



Mer-004-2014

Company Name: Natal Resources  
 Branch/Location: Milwaukee WI  
 Project Contact: Brian Hennings  
 Phone: 262-719-4508  
 Project Number: 1549 Turner  
 Project Name: Monette MGP  
 Project State: WI  
 Sampled By (Print): Sarah Zinswiler  
 Sampled By (Sign): [Signature]  
 PO #: 3400002393 Regulatory Program:

### CHAIN OF CUSTODY

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

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

Y/N	Y	Y	N	N	N	N	N	N
N	Y	Y	N	N	N	N	N	N
A	D	D	A	D	A	B	B	
PAH 827D	DISSOLVED METALS	10020A	P 155 Iron & Manganese	Alkalinity	Nitrate/Nitrite	Sulfate	BTEX 8024	Methane 8015B

Quote #: 34000010643  
 Mail To Contact: Jody Berbeau  
 Mail To Company: Natal Resources  
 Mail To Address: 234 W Florida St Milwaukee WI  
 Invoice To Contact: Accounts Payable  
 Invoice To Company: TBS LLC  
 Invoice To Address: PO Box 1980 Green Bay WI  
 Invoice To Phone: 920-433-2929

Data Package Options (billable)  
 EPA Level III  
 EPA Level IV Level 2  
 MS/MSD  
 On your sample (billable)  
 NOT needed on your sample  
 Matrix Codes  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX
014	042414014	4/24/14	0758	GW
015	042414015	↓	0842	↓
016	042414016	↓	0924	↓
	042414014	4/24/14	0758	GW
	042414015	↓	0842	↓
	042414016	↓	0924	↓
017	042414017*			

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	6-40mIB 3-25mIB <sup>ACD</sup> 1-11Ag <sup>PT</sup>	
	↓ ↓ ↓	
	1-40mIB	

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

Relinquished By: <u>[Signature]</u> Date/Time: <u>4/24/14</u>	Received By: <u>[Signature]</u> Date/Time: <u>4/24/14 1340</u>
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____

PACE Project No. 4095262  
 Receipt Temp = ROT °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present  
Intact / Not Intact





Sample Condition Upon Receipt

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

Project #: WO#: 4095262

Client Name: NRT



Courier: Fed Ex UPS 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 NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 201 /Corr: Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 4-24-14
Initials: MV

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Table with 15 rows of checklist items and checkboxes. Includes handwritten notes like '001 1-250mgPb matched by ID on lid + time. No ID on label. 4-24-14 MV' and 'Added to COC by lab. 4-24-14 MV'.

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

Project Manager Review: [Signature] Date: 4-25-14

June 10, 2014

Ken Mika  
Natural Resource Technology  
234 W. Florida St, 5th Floor  
Milwaukee, WI 53204

RE: Project: 2098 MARINETTE RESIDUAL SAND  
Pace Project No.: 4096754

Dear Ken Mika:

Enclosed are the analytical results for sample(s) received by the laboratory on May 22, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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  
Project Manager

Enclosures

cc: Phil Brochocki, Natural Resources Technologies  
Brian Hennings, NATURAL RESOURCE TECHNOLOGY  
Chris Musson, Natural Resources Technologies



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2098 MARINETTE RESIDUAL SAND

Pace Project No.: 4096754

---

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2098 MARINETTE RESIDUAL SAND

Pace Project No.: 4096754

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4096754001	052114001	Solid	05/21/14 10:12	05/22/14 07:35
4096754002	052114002	Solid	05/21/14 10:12	05/22/14 07:35
4096754003	052114003	Solid	05/21/14 10:40	05/22/14 07:35
4096754004	052114004	Solid	05/21/14 10:40	05/22/14 07:35
4096754005	052114005	Solid	05/21/14 11:00	05/22/14 07:35
4096754006	052114006	Solid	05/21/14 11:00	05/22/14 07:35
4096754007	052114007	Solid	05/21/14 11:00	05/22/14 07:35
4096754008	052114008	Solid	05/21/14 11:22	05/22/14 07:35
4096754009	052114009	Solid	05/21/14 11:22	05/22/14 07:35
4096754010	052114010	Solid	05/21/14 11:45	05/22/14 07:35
4096754011	052114011	Solid	05/21/14 11:45	05/22/14 07:35

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2098 MARINETTE RESIDUAL SAND

Pace Project No.: 4096754

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4096754001	052114001	EPA 8270 by SIM	RJN	15
		ASTM D2974-87	SKW	1
4096754002	052114002	EPA 8270 by SIM	RJN	15
		ASTM D2974-87	SKW	1
4096754003	052114003	EPA 8270 by SIM	RJN	15
		ASTM D2974-87	SKW	1
4096754004	052114004	EPA 8270 by SIM	RJN	15
		ASTM D2974-87	SKW	1
4096754005	052114005	EPA 8270 by SIM	RJN	15
		ASTM D2974-87	SKW	1
4096754006	052114006	EPA 8270 by SIM	ARO	15
		ASTM D2974-87	SKW	1
4096754007	052114007	EPA 8270 by SIM	RJN	15
		ASTM D2974-87	SKW	1
4096754008	052114008	EPA 8270 by SIM	RJN	15
		ASTM D2974-87	SKW	1
4096754009	052114009	EPA 8270 by SIM	RJN	15
		ASTM D2974-87	SKW	1
4096754010	052114010	EPA 8270 by SIM	RJN	15
		ASTM D2974-87	SKW	1
4096754011	052114011	EPA 8270 by SIM	RJN	15
		ASTM D2974-87	SKW	1

### REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

### ANALYTICAL RESULTS

Project: 2098 MARINETTE RESIDUAL SAND

Pace Project No.: 4096754

**Sample: 052114001**      **Lab ID: 4096754001**      Collected: 05/21/14 10:12      Received: 05/22/14 07:35      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Acenaphthene	23.3	ug/kg	18.5	9.3	1	05/27/14 07:39	05/27/14 18:02	83-32-9	
Acenaphthylene	<8.3	ug/kg	18.5	8.3	1	05/27/14 07:39	05/27/14 18:02	208-96-8	
Anthracene	13.8J	ug/kg	18.5	9.6	1	05/27/14 07:39	05/27/14 18:02	120-12-7	
Benzo(a)anthracene	24.9	ug/kg	18.5	6.4	1	05/27/14 07:39	05/27/14 18:02	56-55-3	
Benzo(a)pyrene	28.5	ug/kg	18.5	6.6	1	05/27/14 07:39	05/27/14 18:02	50-32-8	
Benzo(b)fluoranthene	26.7	ug/kg	18.5	9.3	1	05/27/14 07:39	05/27/14 18:02	205-99-2	
Benzo(k)fluoranthene	26.2	ug/kg	18.5	10.2	1	05/27/14 07:39	05/27/14 18:02	207-08-9	
Chrysene	32.0	ug/kg	18.5	8.6	1	05/27/14 07:39	05/27/14 18:02	218-01-9	
Fluoranthene	66.3	ug/kg	18.5	9.3	1	05/27/14 07:39	05/27/14 18:02	206-44-0	
Fluorene	<9.3	ug/kg	18.5	9.3	1	05/27/14 07:39	05/27/14 18:02	86-73-7	
Naphthalene	<9.3	ug/kg	18.5	9.3	1	05/27/14 07:39	05/27/14 18:02	91-20-3	
Phenanthrene	40.4	ug/kg	18.5	9.3	1	05/27/14 07:39	05/27/14 18:02	85-01-8	
Pyrene	52.7	ug/kg	18.5	9.3	1	05/27/14 07:39	05/27/14 18:02	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	78	%	40-130		1	05/27/14 07:39	05/27/14 18:02	321-60-8	
Terphenyl-d14 (S)	82	%	40-130		1	05/27/14 07:39	05/27/14 18:02	1718-51-0	

**Percent Moisture**

Analytical Method: ASTM D2974-87

Percent Moisture	10	%	0.10	0.10	1		05/28/14 16:40		
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**Sample: 052114002**      **Lab ID: 4096754002**      Collected: 05/21/14 10:12      Received: 05/22/14 07:35      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Acenaphthene	751	ug/kg	79.3	39.7	4	05/27/14 07:39	05/28/14 11:52	83-32-9	
Acenaphthylene	163	ug/kg	79.3	35.5	4	05/27/14 07:39	05/28/14 11:52	208-96-8	
Anthracene	566	ug/kg	79.3	41.1	4	05/27/14 07:39	05/28/14 11:52	120-12-7	
Benzo(a)anthracene	456	ug/kg	79.3	27.5	4	05/27/14 07:39	05/28/14 11:52	56-55-3	
Benzo(a)pyrene	452	ug/kg	79.3	28.4	4	05/27/14 07:39	05/28/14 11:52	50-32-8	
Benzo(b)fluoranthene	322	ug/kg	79.3	39.7	4	05/27/14 07:39	05/28/14 11:52	205-99-2	
Benzo(k)fluoranthene	343	ug/kg	79.3	43.9	4	05/27/14 07:39	05/28/14 11:52	207-08-9	
Chrysene	449	ug/kg	79.3	36.7	4	05/27/14 07:39	05/28/14 11:52	218-01-9	
Fluoranthene	1140	ug/kg	79.3	39.7	4	05/27/14 07:39	05/28/14 11:52	206-44-0	
Fluorene	461	ug/kg	79.3	39.7	4	05/27/14 07:39	05/28/14 11:52	86-73-7	
Naphthalene	642	ug/kg	79.3	39.7	4	05/27/14 07:39	05/28/14 11:52	91-20-3	
Phenanthrene	1440	ug/kg	79.3	39.7	4	05/27/14 07:39	05/28/14 11:52	85-01-8	
Pyrene	894	ug/kg	79.3	39.7	4	05/27/14 07:39	05/28/14 11:52	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	64	%	40-130		4	05/27/14 07:39	05/28/14 11:52	321-60-8	
Terphenyl-d14 (S)	58	%	40-130		4	05/27/14 07:39	05/28/14 11:52	1718-51-0	

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### ANALYTICAL RESULTS

Project: 2098 MARINETTE RESIDUAL SAND  
Pace Project No.: 4096754

**Sample: 052114002**      **Lab ID: 4096754002**      Collected: 05/21/14 10:12      Received: 05/22/14 07:35      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	16.0	%	0.10	0.10	1		05/28/14 16:40		

**Sample: 052114003**      **Lab ID: 4096754003**      Collected: 05/21/14 10:40      Received: 05/22/14 07:35      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Acenaphthene	<9.5	ug/kg	19.0	9.5	1	05/27/14 07:39	05/27/14 20:19	83-32-9	
Acenaphthylene	<8.5	ug/kg	19.0	8.5	1	05/27/14 07:39	05/27/14 20:19	208-96-8	
Anthracene	<9.8	ug/kg	19.0	9.8	1	05/27/14 07:39	05/27/14 20:19	120-12-7	
Benzo(a)anthracene	13.8J	ug/kg	19.0	6.6	1	05/27/14 07:39	05/27/14 20:19	56-55-3	
Benzo(a)pyrene	15.0J	ug/kg	19.0	6.8	1	05/27/14 07:39	05/27/14 20:19	50-32-8	
Benzo(b)fluoranthene	14.4J	ug/kg	19.0	9.5	1	05/27/14 07:39	05/27/14 20:19	205-99-2	
Benzo(k)fluoranthene	16.2J	ug/kg	19.0	10.5	1	05/27/14 07:39	05/27/14 20:19	207-08-9	
Chrysene	18.5J	ug/kg	19.0	8.8	1	05/27/14 07:39	05/27/14 20:19	218-01-9	
Fluoranthene	36.0	ug/kg	19.0	9.5	1	05/27/14 07:39	05/27/14 20:19	206-44-0	
Fluorene	<9.5	ug/kg	19.0	9.5	1	05/27/14 07:39	05/27/14 20:19	86-73-7	
Naphthalene	<9.5	ug/kg	19.0	9.5	1	05/27/14 07:39	05/27/14 20:19	91-20-3	
Phenanthrene	14.4J	ug/kg	19.0	9.5	1	05/27/14 07:39	05/27/14 20:19	85-01-8	
Pyrene	27.1	ug/kg	19.0	9.5	1	05/27/14 07:39	05/27/14 20:19	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72	%	40-130		1	05/27/14 07:39	05/27/14 20:19	321-60-8	
Terphenyl-d14 (S)	75	%	40-130		1	05/27/14 07:39	05/27/14 20:19	1718-51-0	

<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	12.1	%	0.10	0.10	1		05/28/14 16:40		

**Sample: 052114004**      **Lab ID: 4096754004**      Collected: 05/21/14 10:40      Received: 05/22/14 07:35      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Acenaphthene	<9.2	ug/kg	18.5	9.2	1	05/27/14 07:39	05/27/14 20:36	83-32-9	
Acenaphthylene	<8.3	ug/kg	18.5	8.3	1	05/27/14 07:39	05/27/14 20:36	208-96-8	
Anthracene	<9.6	ug/kg	18.5	9.6	1	05/27/14 07:39	05/27/14 20:36	120-12-7	
Benzo(a)anthracene	<6.4	ug/kg	18.5	6.4	1	05/27/14 07:39	05/27/14 20:36	56-55-3	
Benzo(a)pyrene	<6.6	ug/kg	18.5	6.6	1	05/27/14 07:39	05/27/14 20:36	50-32-8	
Benzo(b)fluoranthene	<9.2	ug/kg	18.5	9.2	1	05/27/14 07:39	05/27/14 20:36	205-99-2	
Benzo(k)fluoranthene	<10.2	ug/kg	18.5	10.2	1	05/27/14 07:39	05/27/14 20:36	207-08-9	
Chrysene	<8.5	ug/kg	18.5	8.5	1	05/27/14 07:39	05/27/14 20:36	218-01-9	

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### ANALYTICAL RESULTS

Project: 2098 MARINETTE RESIDUAL SAND  
Pace Project No.: 4096754

**Sample: 052114004**      **Lab ID: 4096754004**      Collected: 05/21/14 10:40      Received: 05/22/14 07:35      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Fluoranthene	<9.2	ug/kg	18.5	9.2	1	05/27/14 07:39	05/27/14 20:36	206-44-0	
Fluorene	<9.2	ug/kg	18.5	9.2	1	05/27/14 07:39	05/27/14 20:36	86-73-7	
Naphthalene	12.4J	ug/kg	18.5	9.2	1	05/27/14 07:39	05/27/14 20:36	91-20-3	
Phenanthrene	<9.2	ug/kg	18.5	9.2	1	05/27/14 07:39	05/27/14 20:36	85-01-8	
Pyrene	<9.2	ug/kg	18.5	9.2	1	05/27/14 07:39	05/27/14 20:36	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72	%	40-130		1	05/27/14 07:39	05/27/14 20:36	321-60-8	
Terphenyl-d14 (S)	72	%	40-130		1	05/27/14 07:39	05/27/14 20:36	1718-51-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	9.7	%	0.10	0.10	1		05/28/14 16:40		

**Sample: 052114005**      **Lab ID: 4096754005**      Collected: 05/21/14 11:00      Received: 05/22/14 07:35      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Acenaphthene	17.1J	ug/kg	20.1	10.0	1	05/27/14 07:39	05/27/14 20:53	83-32-9	
Acenaphthylene	11.4J	ug/kg	20.1	9.0	1	05/27/14 07:39	05/27/14 20:53	208-96-8	
Anthracene	28.5	ug/kg	20.1	10.4	1	05/27/14 07:39	05/27/14 20:53	120-12-7	
Benzo(a)anthracene	66.1	ug/kg	20.1	7.0	1	05/27/14 07:39	05/27/14 20:53	56-55-3	
Benzo(a)pyrene	78.7	ug/kg	20.1	7.2	1	05/27/14 07:39	05/27/14 20:53	50-32-8	
Benzo(b)fluoranthene	69.0	ug/kg	20.1	10.0	1	05/27/14 07:39	05/27/14 20:53	205-99-2	
Benzo(k)fluoranthene	73.4	ug/kg	20.1	11.1	1	05/27/14 07:39	05/27/14 20:53	207-08-9	
Chrysene	87.5	ug/kg	20.1	9.3	1	05/27/14 07:39	05/27/14 20:53	218-01-9	
Fluoranthene	197	ug/kg	20.1	10.0	1	05/27/14 07:39	05/27/14 20:53	206-44-0	
Fluorene	14.3J	ug/kg	20.1	10.0	1	05/27/14 07:39	05/27/14 20:53	86-73-7	
Naphthalene	10.5J	ug/kg	20.1	10.0	1	05/27/14 07:39	05/27/14 20:53	91-20-3	
Phenanthrene	116	ug/kg	20.1	10.0	1	05/27/14 07:39	05/27/14 20:53	85-01-8	
Pyrene	155	ug/kg	20.1	10.0	1	05/27/14 07:39	05/27/14 20:53	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	40-130		1	05/27/14 07:39	05/27/14 20:53	321-60-8	
Terphenyl-d14 (S)	61	%	40-130		1	05/27/14 07:39	05/27/14 20:53	1718-51-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	16.9	%	0.10	0.10	1		05/28/14 16:40		

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### ANALYTICAL RESULTS

Project: 2098 MARINETTE RESIDUAL SAND

Pace Project No.: 4096754

Sample: 052114006 Lab ID: 4096754006 Collected: 05/21/14 11:00 Received: 05/22/14 07:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	6220	ug/kg	492	246	20	06/02/14 08:55	06/03/14 03:31	83-32-9	
Acenaphthylene	991	ug/kg	492	220	20	06/02/14 08:55	06/03/14 03:31	208-96-8	
Anthracene	5080	ug/kg	492	255	20	06/02/14 08:55	06/03/14 03:31	120-12-7	
Benzo(a)anthracene	2500	ug/kg	492	170	20	06/02/14 08:55	06/03/14 03:31	56-55-3	
Benzo(a)pyrene	2490	ug/kg	492	176	20	06/02/14 08:55	06/03/14 03:31	50-32-8	
Benzo(b)fluoranthene	1720	ug/kg	492	246	20	06/02/14 08:55	06/03/14 03:31	205-99-2	
Benzo(k)fluoranthene	1870	ug/kg	492	272	20	06/02/14 08:55	06/03/14 03:31	207-08-9	
Chrysene	2620	ug/kg	492	227	20	06/02/14 08:55	06/03/14 03:31	218-01-9	
Fluoranthene	7140	ug/kg	492	246	20	06/02/14 08:55	06/03/14 03:31	206-44-0	
Fluorene	3600	ug/kg	492	246	20	06/02/14 08:55	06/03/14 03:31	86-73-7	
Naphthalene	22900	ug/kg	492	246	20	06/02/14 08:55	06/03/14 03:31	91-20-3	
Phenanthrene	11800	ug/kg	492	246	20	06/02/14 08:55	06/03/14 03:31	85-01-8	
Pyrene	5830	ug/kg	492	246	20	06/02/14 08:55	06/03/14 03:31	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	54 %		40-130		20	06/02/14 08:55	06/03/14 03:31	321-60-8	
Terphenyl-d14 (S)	55 %		40-130		20	06/02/14 08:55	06/03/14 03:31	1718-51-0	

**Percent Moisture**

Analytical Method: ASTM D2974-87

Percent Moisture 32.2 % 0.10 0.10 1 05/28/14 16:40

Sample: 052114007 Lab ID: 4096754007 Collected: 05/21/14 11:00 Received: 05/22/14 07:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	2350	ug/kg	439	220	20	05/27/14 07:39	05/28/14 11:00	83-32-9	
Acenaphthylene	498	ug/kg	439	197	20	05/27/14 07:39	05/28/14 11:00	208-96-8	
Anthracene	2130	ug/kg	439	228	20	05/27/14 07:39	05/28/14 11:00	120-12-7	
Benzo(a)anthracene	1500	ug/kg	439	152	20	05/27/14 07:39	05/28/14 11:00	56-55-3	
Benzo(a)pyrene	1480	ug/kg	439	157	20	05/27/14 07:39	05/28/14 11:00	50-32-8	
Benzo(b)fluoranthene	929	ug/kg	439	220	20	05/27/14 07:39	05/28/14 11:00	205-99-2	
Benzo(k)fluoranthene	1180	ug/kg	439	243	20	05/27/14 07:39	05/28/14 11:00	207-08-9	
Chrysene	1610	ug/kg	439	203	20	05/27/14 07:39	05/28/14 11:00	218-01-9	
Fluoranthene	3480	ug/kg	439	220	20	05/27/14 07:39	05/28/14 11:00	206-44-0	
Fluorene	1620	ug/kg	439	220	20	05/27/14 07:39	05/28/14 11:00	86-73-7	
Naphthalene	7600	ug/kg	439	220	20	05/27/14 07:39	05/28/14 11:00	91-20-3	
Phenanthrene	5420	ug/kg	439	220	20	05/27/14 07:39	05/28/14 11:00	85-01-8	
Pyrene	2790	ug/kg	439	220	20	05/27/14 07:39	05/28/14 11:00	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	42 %		40-130		20	05/27/14 07:39	05/28/14 11:00	321-60-8	
Terphenyl-d14 (S)	39 %		40-130		20	05/27/14 07:39	05/28/14 11:00	1718-51-0	S4

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### ANALYTICAL RESULTS

Project: 2098 MARINETTE RESIDUAL SAND  
Pace Project No.: 4096754

**Sample: 052114007**      **Lab ID: 4096754007**      Collected: 05/21/14 11:00      Received: 05/22/14 07:35      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	24.2 %		0.10	0.10	1		05/28/14 16:40		

**Sample: 052114008**      **Lab ID: 4096754008**      Collected: 05/21/14 11:22      Received: 05/22/14 07:35      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Acenaphthene	<9.3	ug/kg	18.6	9.3	1	05/27/14 07:39	05/27/14 21:45	83-32-9	
Acenaphthylene	<8.3	ug/kg	18.6	8.3	1	05/27/14 07:39	05/27/14 21:45	208-96-8	
Anthracene	<9.7	ug/kg	18.6	9.7	1	05/27/14 07:39	05/27/14 21:45	120-12-7	
Benzo(a)anthracene	7.1J	ug/kg	18.6	6.5	1	05/27/14 07:39	05/27/14 21:45	56-55-3	
Benzo(a)pyrene	8.7J	ug/kg	18.6	6.7	1	05/27/14 07:39	05/27/14 21:45	50-32-8	
Benzo(b)fluoranthene	<9.3	ug/kg	18.6	9.3	1	05/27/14 07:39	05/27/14 21:45	205-99-2	
Benzo(k)fluoranthene	<10.3	ug/kg	18.6	10.3	1	05/27/14 07:39	05/27/14 21:45	207-08-9	
Chrysene	10.3J	ug/kg	18.6	8.6	1	05/27/14 07:39	05/27/14 21:45	218-01-9	
Fluoranthene	19.7	ug/kg	18.6	9.3	1	05/27/14 07:39	05/27/14 21:45	206-44-0	
Fluorene	<9.3	ug/kg	18.6	9.3	1	05/27/14 07:39	05/27/14 21:45	86-73-7	
Naphthalene	<9.3	ug/kg	18.6	9.3	1	05/27/14 07:39	05/27/14 21:45	91-20-3	
Phenanthrene	10J	ug/kg	18.6	9.3	1	05/27/14 07:39	05/27/14 21:45	85-01-8	
Pyrene	15.7J	ug/kg	18.6	9.3	1	05/27/14 07:39	05/27/14 21:45	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	70 %		40-130		1	05/27/14 07:39	05/27/14 21:45	321-60-8	
Terphenyl-d14 (S)	77 %		40-130		1	05/27/14 07:39	05/27/14 21:45	1718-51-0	

<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	10.5 %		0.10	0.10	1		05/28/14 16:40		

**Sample: 052114009**      **Lab ID: 4096754009**      Collected: 05/21/14 11:22      Received: 05/22/14 07:35      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Acenaphthene	<9.8	ug/kg	19.7	9.8	1	05/27/14 07:39	05/27/14 22:02	83-32-9	
Acenaphthylene	<8.8	ug/kg	19.7	8.8	1	05/27/14 07:39	05/27/14 22:02	208-96-8	
Anthracene	<10.2	ug/kg	19.7	10.2	1	05/27/14 07:39	05/27/14 22:02	120-12-7	
Benzo(a)anthracene	16.3J	ug/kg	19.7	6.8	1	05/27/14 07:39	05/27/14 22:02	56-55-3	
Benzo(a)pyrene	20.4	ug/kg	19.7	7.0	1	05/27/14 07:39	05/27/14 22:02	50-32-8	
Benzo(b)fluoranthene	20.6	ug/kg	19.7	9.8	1	05/27/14 07:39	05/27/14 22:02	205-99-2	
Benzo(k)fluoranthene	20.5	ug/kg	19.7	10.9	1	05/27/14 07:39	05/27/14 22:02	207-08-9	
Chrysene	24.5	ug/kg	19.7	9.1	1	05/27/14 07:39	05/27/14 22:02	218-01-9	

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### ANALYTICAL RESULTS

Project: 2098 MARINETTE RESIDUAL SAND

Pace Project No.: 4096754

**Sample: 052114009**      **Lab ID: 4096754009**      Collected: 05/21/14 11:22      Received: 05/22/14 07:35      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Fluoranthene	47.0	ug/kg	19.7	9.8	1	05/27/14 07:39	05/27/14 22:02	206-44-0	
Fluorene	<9.8	ug/kg	19.7	9.8	1	05/27/14 07:39	05/27/14 22:02	86-73-7	
Naphthalene	<9.8	ug/kg	19.7	9.8	1	05/27/14 07:39	05/27/14 22:02	91-20-3	
Phenanthrene	20.4	ug/kg	19.7	9.8	1	05/27/14 07:39	05/27/14 22:02	85-01-8	
Pyrene	34.9	ug/kg	19.7	9.8	1	05/27/14 07:39	05/27/14 22:02	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	61	%	40-130		1	05/27/14 07:39	05/27/14 22:02	321-60-8	
Terphenyl-d14 (S)	53	%	40-130		1	05/27/14 07:39	05/27/14 22:02	1718-51-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	15.2	%	0.10	0.10	1		05/28/14 16:40		

**Sample: 052114010**      **Lab ID: 4096754010**      Collected: 05/21/14 11:45      Received: 05/22/14 07:35      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Acenaphthene	<10.3	ug/kg	20.6	10.3	1	05/27/14 07:39	05/27/14 22:20	83-32-9	
Acenaphthylene	<9.2	ug/kg	20.6	9.2	1	05/27/14 07:39	05/27/14 22:20	208-96-8	
Anthracene	12.7J	ug/kg	20.6	10.7	1	05/27/14 07:39	05/27/14 22:20	120-12-7	
Benzo(a)anthracene	42.1	ug/kg	20.6	7.1	1	05/27/14 07:39	05/27/14 22:20	56-55-3	
Benzo(a)pyrene	51.6	ug/kg	20.6	7.4	1	05/27/14 07:39	05/27/14 22:20	50-32-8	
Benzo(b)fluoranthene	49.0	ug/kg	20.6	10.3	1	05/27/14 07:39	05/27/14 22:20	205-99-2	
Benzo(k)fluoranthene	54.0	ug/kg	20.6	11.4	1	05/27/14 07:39	05/27/14 22:20	207-08-9	
Chrysene	63.9	ug/kg	20.6	9.5	1	05/27/14 07:39	05/27/14 22:20	218-01-9	
Fluoranthene	122	ug/kg	20.6	10.3	1	05/27/14 07:39	05/27/14 22:20	206-44-0	
Fluorene	<10.3	ug/kg	20.6	10.3	1	05/27/14 07:39	05/27/14 22:20	86-73-7	
Naphthalene	<10.3	ug/kg	20.6	10.3	1	05/27/14 07:39	05/27/14 22:20	91-20-3	
Phenanthrene	58.8	ug/kg	20.6	10.3	1	05/27/14 07:39	05/27/14 22:20	85-01-8	
Pyrene	97.0	ug/kg	20.6	10.3	1	05/27/14 07:39	05/27/14 22:20	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	59	%	40-130		1	05/27/14 07:39	05/27/14 22:20	321-60-8	
Terphenyl-d14 (S)	56	%	40-130		1	05/27/14 07:39	05/27/14 22:20	1718-51-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	19.2	%	0.10	0.10	1		05/28/14 16:40		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2098 MARINETTE RESIDUAL SAND

Pace Project No.: 4096754

**Sample: 052114011**      **Lab ID: 4096754011**      Collected: 05/21/14 11:45      Received: 05/22/14 07:35      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Acenaphthene	<b>49.7</b>	ug/kg	19.7	9.8	1	05/27/14 07:39	05/27/14 22:37	83-32-9	
Acenaphthylene	<b>18.5J</b>	ug/kg	19.7	8.8	1	05/27/14 07:39	05/27/14 22:37	208-96-8	
Anthracene	<b>71.0</b>	ug/kg	19.7	10.2	1	05/27/14 07:39	05/27/14 22:37	120-12-7	
Benzo(a)anthracene	<b>51.6</b>	ug/kg	19.7	6.8	1	05/27/14 07:39	05/27/14 22:37	56-55-3	
Benzo(a)pyrene	<b>51.8</b>	ug/kg	19.7	7.0	1	05/27/14 07:39	05/27/14 22:37	50-32-8	
Benzo(b)fluoranthene	<b>38.6</b>	ug/kg	19.7	9.8	1	05/27/14 07:39	05/27/14 22:37	205-99-2	
Benzo(k)fluoranthene	<b>42.2</b>	ug/kg	19.7	10.9	1	05/27/14 07:39	05/27/14 22:37	207-08-9	
Chrysene	<b>56.6</b>	ug/kg	19.7	9.1	1	05/27/14 07:39	05/27/14 22:37	218-01-9	
Fluoranthene	<b>124</b>	ug/kg	19.7	9.8	1	05/27/14 07:39	05/27/14 22:37	206-44-0	
Fluorene	<b>29.0</b>	ug/kg	19.7	9.8	1	05/27/14 07:39	05/27/14 22:37	86-73-7	
Naphthalene	<b>31.6</b>	ug/kg	19.7	9.8	1	05/27/14 07:39	05/27/14 22:37	91-20-3	
Phenanthrene	<b>100</b>	ug/kg	19.7	9.8	1	05/27/14 07:39	05/27/14 22:37	85-01-8	
Pyrene	<b>110</b>	ug/kg	19.7	9.8	1	05/27/14 07:39	05/27/14 22:37	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	67 %		40-130		1	05/27/14 07:39	05/27/14 22:37	321-60-8	
Terphenyl-d14 (S)	64 %		40-130		1	05/27/14 07:39	05/27/14 22:37	1718-51-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>15.2</b>	%	0.10	0.10	1		05/28/14 16:40		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2098 MARINETTE RESIDUAL SAND

Pace Project No.: 4096754

QC Batch: OEXT/22560 Analysis Method: EPA 8270 by SIM  
 QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM  
 Associated Lab Samples: 4096754001, 4096754002, 4096754003, 4096754004, 4096754005, 4096754007, 4096754008, 4096754009, 4096754010, 4096754011

METHOD BLANK: 979806 Matrix: Solid  
 Associated Lab Samples: 4096754001, 4096754002, 4096754003, 4096754004, 4096754005, 4096754007, 4096754008, 4096754009, 4096754010, 4096754011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<8.3	16.7	05/27/14 11:42	
Acenaphthylene	ug/kg	<7.5	16.7	05/27/14 11:42	
Anthracene	ug/kg	<8.6	16.7	05/27/14 11:42	
Benzo(a)anthracene	ug/kg	<5.8	16.7	05/27/14 11:42	
Benzo(a)pyrene	ug/kg	<6.0	16.7	05/27/14 11:42	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	05/27/14 11:42	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	05/27/14 11:42	
Chrysene	ug/kg	<7.7	16.7	05/27/14 11:42	
Fluoranthene	ug/kg	<8.3	16.7	05/27/14 11:42	
Fluorene	ug/kg	<8.3	16.7	05/27/14 11:42	
Naphthalene	ug/kg	<8.3	16.7	05/27/14 11:42	
Phenanthrene	ug/kg	<8.3	16.7	05/27/14 11:42	
Pyrene	ug/kg	<8.3	16.7	05/27/14 11:42	
2-Fluorobiphenyl (S)	%	80	40-130	05/27/14 11:42	
Terphenyl-d14 (S)	%	82	40-130	05/27/14 11:42	

LABORATORY CONTROL SAMPLE: 979807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	333	274	82	55-130	
Acenaphthylene	ug/kg	333	280	84	55-130	
Anthracene	ug/kg	333	296	89	66-130	
Benzo(a)anthracene	ug/kg	333	275	82	55-130	
Benzo(a)pyrene	ug/kg	333	299	90	56-130	
Benzo(b)fluoranthene	ug/kg	333	269	81	53-130	
Benzo(k)fluoranthene	ug/kg	333	314	94	52-130	
Chrysene	ug/kg	333	301	90	58-130	
Fluoranthene	ug/kg	333	305	92	62-130	
Fluorene	ug/kg	333	282	85	58-130	
Naphthalene	ug/kg	333	260	78	41-130	
Phenanthrene	ug/kg	333	285	85	60-130	
Pyrene	ug/kg	333	280	84	51-130	
2-Fluorobiphenyl (S)	%			78	40-130	
Terphenyl-d14 (S)	%			80	40-130	

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### QUALITY CONTROL DATA

Project: 2098 MARINETTE RESIDUAL SAND

Pace Project No.: 4096754

Parameter	Units	4096754001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Acenaphthene	ug/kg	23.3	370	370	370	344	307	87	77	31-130	12	35				
Acenaphthylene	ug/kg	<8.3	370	370	370	338	307	89	81	32-130	9	25				
Anthracene	ug/kg	13.8J	370	370	370	350	315	91	81	39-131	11	38				
Benzo(a)anthracene	ug/kg	24.9	370	370	370	332	296	83	73	29-130	11	30				
Benzo(a)pyrene	ug/kg	28.5	370	370	370	352	311	87	76	35-130	12	33				
Benzo(b)fluoranthene	ug/kg	26.7	370	370	370	355	325	89	81	21-142	9	44				
Benzo(k)fluoranthene	ug/kg	26.2	370	370	370	355	302	89	74	35-130	16	37				
Chrysene	ug/kg	32.0	370	370	370	360	319	89	78	37-130	12	38				
Fluoranthene	ug/kg	66.3	370	370	370	420	366	96	81	29-137	14	50				
Fluorene	ug/kg	<9.3	370	370	370	331	297	88	79	32-130	11	32				
Naphthalene	ug/kg	<9.3	370	370	370	323	284	85	75	24-130	13	40				
Phenanthrene	ug/kg	40.4	370	370	370	373	328	90	78	27-135	13	46				
Pyrene	ug/kg	52.7	370	370	370	384	348	90	80	24-130	10	49				
2-Fluorobiphenyl (S)	%							82	71	40-130						
Terphenyl-d14 (S)	%							85	73	40-130						

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### QUALITY CONTROL DATA

Project: 2098 MARINETTE RESIDUAL SAND

Pace Project No.: 4096754

QC Batch:	OEXT/22630	Analysis Method:	EPA 8270 by SIM
QC Batch Method:	EPA 3546	Analysis Description:	8270/3546 MSSV PAH by SIM
Associated Lab Samples:	4096754006		

METHOD BLANK: 983223 Matrix: Solid

Associated Lab Samples: 4096754006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<8.3	16.7	06/02/14 11:23	
Acenaphthylene	ug/kg	<7.5	16.7	06/02/14 11:23	
Anthracene	ug/kg	<8.6	16.7	06/02/14 11:23	
Benzo(a)anthracene	ug/kg	<5.8	16.7	06/02/14 11:23	
Benzo(a)pyrene	ug/kg	<6.0	16.7	06/02/14 11:23	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	06/02/14 11:23	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	06/02/14 11:23	
Chrysene	ug/kg	<7.7	16.7	06/02/14 11:23	
Fluoranthene	ug/kg	<8.3	16.7	06/02/14 11:23	
Fluorene	ug/kg	<8.3	16.7	06/02/14 11:23	
Naphthalene	ug/kg	<8.3	16.7	06/02/14 11:23	
Phenanthrene	ug/kg	<8.3	16.7	06/02/14 11:23	
Pyrene	ug/kg	<8.3	16.7	06/02/14 11:23	
2-Fluorobiphenyl (S)	%	70	40-130	06/02/14 11:23	
Terphenyl-d14 (S)	%	86	40-130	06/02/14 11:23	

LABORATORY CONTROL SAMPLE: 983224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	333	262	79	55-130	
Acenaphthylene	ug/kg	333	265	79	55-130	
Anthracene	ug/kg	333	276	83	66-130	
Benzo(a)anthracene	ug/kg	333	257	77	55-130	
Benzo(a)pyrene	ug/kg	333	279	84	56-130	
Benzo(b)fluoranthene	ug/kg	333	261	78	53-130	
Benzo(k)fluoranthene	ug/kg	333	281	84	52-130	
Chrysene	ug/kg	333	280	84	58-130	
Fluoranthene	ug/kg	333	287	86	62-130	
Fluorene	ug/kg	333	265	79	58-130	
Naphthalene	ug/kg	333	214	64	41-130	
Phenanthrene	ug/kg	333	270	81	60-130	
Pyrene	ug/kg	333	261	78	51-130	
2-Fluorobiphenyl (S)	%			74	40-130	
Terphenyl-d14 (S)	%			72	40-130	

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### QUALITY CONTROL DATA

Project: 2098 MARINETTE RESIDUAL SAND

Pace Project No.: 4096754

Parameter	Units	4097105001		983225		983226		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Acenaphthene	ug/kg	<9.8	393	393	285	311	72	79	31-130	9	35			
Acenaphthylene	ug/kg	<8.8	393	393	292	318	74	81	32-130	9	25			
Anthracene	ug/kg	<10.2	393	393	299	334	76	85	39-131	11	38			
Benzo(a)anthracene	ug/kg	<6.8	393	393	280	303	71	77	29-130	8	30			
Benzo(a)pyrene	ug/kg	<7.0	393	393	299	320	76	81	35-130	7	33			
Benzo(b)fluoranthene	ug/kg	<9.8	393	393	278	320	70	81	21-142	14	44			
Benzo(k)fluoranthene	ug/kg	<10.9	393	393	314	309	79	78	35-130	2	37			
Chrysene	ug/kg	<9.1	393	393	303	323	76	81	37-130	6	38			
Fluoranthene	ug/kg	<9.8	393	393	320	331	80	83	29-137	4	50			
Fluorene	ug/kg	<9.8	393	393	290	333	74	85	32-130	14	32			
Naphthalene	ug/kg	<9.8	393	393	259	260	66	66	24-130	0	40			
Phenanthrene	ug/kg	<9.8	393	393	293	320	73	80	27-135	9	46			
Pyrene	ug/kg	<9.8	393	393	323	308	80	76	24-130	5	49			
2-Fluorobiphenyl (S)	%							69	71	40-130				
Terphenyl-d14 (S)	%							73	68	40-130				

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### QUALITY CONTROL DATA

Project: 2098 MARINETTE RESIDUAL SAND

Pace Project No.: 4096754

QC Batch: PMST/9716 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 4096754001, 4096754002, 4096754003, 4096754004, 4096754005, 4096754006, 4096754007, 4096754008, 4096754009, 4096754010, 4096754011

SAMPLE DUPLICATE: 981041

Parameter	Units	4097014002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.5	7.5	0	10	

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## QUALIFIERS

Project: 2098 MARINETTE RESIDUAL SAND

Pace Project No.: 4096754

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

### ANALYTE QUALIFIERS

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

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2098 MARINETTE RESIDUAL SAND

Pace Project No.: 4096754

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4096754001	052114001	EPA 3546	OEXT/22560	EPA 8270 by SIM	MSSV/6782
4096754002	052114002	EPA 3546	OEXT/22560	EPA 8270 by SIM	MSSV/6782
4096754003	052114003	EPA 3546	OEXT/22560	EPA 8270 by SIM	MSSV/6782
4096754004	052114004	EPA 3546	OEXT/22560	EPA 8270 by SIM	MSSV/6782
4096754005	052114005	EPA 3546	OEXT/22560	EPA 8270 by SIM	MSSV/6782
4096754006	052114006	EPA 3546	OEXT/22630	EPA 8270 by SIM	MSSV/6802
4096754007	052114007	EPA 3546	OEXT/22560	EPA 8270 by SIM	MSSV/6782
4096754008	052114008	EPA 3546	OEXT/22560	EPA 8270 by SIM	MSSV/6782
4096754009	052114009	EPA 3546	OEXT/22560	EPA 8270 by SIM	MSSV/6782
4096754010	052114010	EPA 3546	OEXT/22560	EPA 8270 by SIM	MSSV/6782
4096754011	052114011	EPA 3546	OEXT/22560	EPA 8270 by SIM	MSSV/6782
4096754001	052114001	ASTM D2974-87	PMST/9716		
4096754002	052114002	ASTM D2974-87	PMST/9716		
4096754003	052114003	ASTM D2974-87	PMST/9716		
4096754004	052114004	ASTM D2974-87	PMST/9716		
4096754005	052114005	ASTM D2974-87	PMST/9716		
4096754006	052114006	ASTM D2974-87	PMST/9716		
4096754007	052114007	ASTM D2974-87	PMST/9716		
4096754008	052114008	ASTM D2974-87	PMST/9716		
4096754009	052114009	ASTM D2974-87	PMST/9716		
4096754010	052114010	ASTM D2974-87	PMST/9716		
4096754011	052114011	ASTM D2974-87	PMST/9716		

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(Please Print Clearly)

Company Name: **NRT**  
 Branch/Location: **MDW**  
 Project Contact: **Jennifer Hagen**  
 Phone: \_\_\_\_\_  
 Project Number: **2090**  
 Project Name: **Marquette Residual Soil**  
 Project State: **WI**  
 Sampled By (Print): **Andrew Conroy Stepien**  
 Sampled By (Sign): **Steve Winters**  
 PO #: \_\_\_\_\_



UPPER MIDWEST REGION

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

052114-1 4096754

Page 1 of 20

# CHAIN OF CUSTODY

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

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

Y/N	Pick Letter	Regulatory Program	Analyses Requested	Matrix Codes													
				A	B	C	D	E	F	G	H	I	J	K	L		
N	A		MS/MS														

Data Package Options (billable)  
 EPA Level III  
 EPA Level IV

MS/MSD (billable)  
 On your sample  
 NOT needed on your sample

Matrix Codes:  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	052114001	5/21/14	1012	Sed
002	052114002	5/21/14	1012	Sed
003	052114003	5/21/14	1040	Sed
004	052114004	5/21/14	1040	Sed
005	052114005	5/21/14	1100	Sed
006	052114006	5/21/14	1100	Sed
007	052114007	5/21/14	1100	Sed
008	052114008	5/21/14	1122	Sed
009	052114009	5/21/14	1122	Sed
010	052114010	5/21/14	1145	Sed
011	052114011	5/21/14	1145	Sed

Quote #: \_\_\_\_\_  
 Mail To Contact: \_\_\_\_\_  
 Mail To Company: \_\_\_\_\_  
 Mail To Address: \_\_\_\_\_  
 Invoice To Contact: **FBS**  
 Invoice To Company: \_\_\_\_\_  
 Invoice To Address: \_\_\_\_\_  
 Invoice To Phone: \_\_\_\_\_

CLIENT COMMENTS: **ms/msd**  
 LAB COMMENTS (Lab Use Only): **1-40zag**  
 Profile #: \_\_\_\_\_

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_

Relinquished By: **Steve Winters** Date/Time: **5/22/14/0735**  
 Received By: **Matthew Pankas** Date/Time: **5/21/14 0735**

Transmit Prelim Rush Results by (complete what you want):  
 Email #1: \_\_\_\_\_  
 Email #2: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

Samples on HOLD are subject to special pricing and release of liability

Receipt Temp = **201 °C**  
 Sample Receipt pH **OK / Adjusted**  
 Cooler Custody Seal **Present / Not Present Intact / Not Intact**



Sample Condition Upon Receipt

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

Project #: WO#: 4096754

Client Name: NRT

Courier: Fed Ex UPS Client Pace Other:
Tracking #: 4096754

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 N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT Corr: Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:
Date: 5-22-14
Initials: [Signature]

Comments:

Table with 15 rows of inspection items and checkboxes. Items include Chain of Custody Present, Short Hold Time Analysis, Containers Intact, etc.

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

Project Manager Review: [Signature] Date: 5-22-14

October 17, 2014

Brian Hennings  
NATURAL RESOURCE TECHNOLOGY  
234 W. Florida St, 5th Floor  
Milwaukee, WI 53204

RE: Project: 1549 WPSC MARINETTE FORMER MGP  
Pace Project No.: 40105126

Dear Brian Hennings:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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  
Project Manager

Enclosures

cc: NRT Data, Natural Resource Technologies



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1549 WPSC MARINETTE FORMER MGP

Pace Project No.: 40105126

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 1549 WPSC MARINETTE FORMER MGP

Pace Project No.: 40105126

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40105126001	100914105	Solid	10/09/14 10:09	10/10/14 16:08
40105126002	100914106	Solid	10/09/14 11:16	10/10/14 16:08
40105126003	100914107	Solid	10/09/14 11:16	10/10/14 16:08
40105126004	100914108	Solid	10/09/14 12:05	10/10/14 16:08
40105126005	100914109	Solid	10/09/14 12:25	10/10/14 16:08
40105126006	100914110	Solid	10/09/14 13:15	10/10/14 16:08
40105126007	100914111	Solid	10/09/14 14:25	10/10/14 16:08

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### SAMPLE ANALYTE COUNT

Project: 1549 WPSC MARINETTE FORMER MGP

Pace Project No.: 40105126

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40105126001	100914105	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105126002	100914106	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105126003	100914107	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105126004	100914108	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105126005	100914109	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105126006	100914110	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105126007	100914111	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 WPSC MARINETTE FORMER MGP  
Pace Project No.: 40105126

---

**Method:** EPA 8270 by SIM  
**Description:** 8270 MSSV PAH by SIM  
**Client:** Natural Resources Technologies  
**Date:** October 17, 2014

**General Information:**

7 samples were analyzed for EPA 8270 by SIM. All samples were received in acceptable condition with any exceptions noted below.

**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 3546 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Internal Standards:**

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

**Surrogates:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

QC Batch: OEXT/24663

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40105127005

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

- MS (Lab ID: 1063228)
  - Benzo(a)pyrene
  - Benzo(k)fluoranthene
  - Chrysene

R1: RPD value was outside control limits.

- MSD (Lab ID: 1063229)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(k)fluoranthene
  - Indeno(1,2,3-cd)pyrene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 WPSC MARINETTE FORMER MGP

Pace Project No.: 40105126

---

**Method:** EPA 8270 by SIM

**Description:** 8270 MSSV PAH by SIM

**Client:** Natural Resources Technologies

**Date:** October 17, 2014

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 WPSC MARINETTE FORMER MGP  
Pace Project No.: 40105126

---

**Method:** EPA 8260  
**Description:** 8260 MSV Med Level Short List  
**Client:** Natural Resources Technologies  
**Date:** October 17, 2014

**General Information:**

7 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

**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 5035/5030B with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Internal Standards:**

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

**Surrogates:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

QC Batch: MSV/26181

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

**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: 1549 WPSC MARINETTE FORMER MGP

Pace Project No.: 40105126

**Sample: 100914105**      **Lab ID: 40105126001**      Collected: 10/09/14 10:09      Received: 10/10/14 16:08      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Benzo(a)anthracene	315	ug/kg	17.9	6.2	1	10/14/14 09:35	10/16/14 10:50	56-55-3	
Benzo(a)pyrene	457	ug/kg	17.9	6.4	1	10/14/14 09:35	10/16/14 10:50	50-32-8	
Benzo(b)fluoranthene	393	ug/kg	17.9	9.0	1	10/14/14 09:35	10/16/14 10:50	205-99-2	
Benzo(k)fluoranthene	394	ug/kg	17.9	9.9	1	10/14/14 09:35	10/16/14 10:50	207-08-9	
Chrysene	372	ug/kg	17.9	8.3	1	10/14/14 09:35	10/16/14 10:50	218-01-9	
Dibenz(a,h)anthracene	98.5	ug/kg	17.9	6.6	1	10/14/14 09:35	10/16/14 10:50	53-70-3	
Indeno(1,2,3-cd)pyrene	409	ug/kg	17.9	6.8	1	10/14/14 09:35	10/16/14 10:50	193-39-5	
1-Methylnaphthalene	75.4	ug/kg	17.9	9.0	1	10/14/14 09:35	10/16/14 10:50	90-12-0	
2-Methylnaphthalene	93.3	ug/kg	17.9	9.0	1	10/14/14 09:35	10/16/14 10:50	91-57-6	
Naphthalene	109	ug/kg	17.9	9.0	1	10/14/14 09:35	10/16/14 10:50	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	69 %		40-130		1	10/14/14 09:35	10/16/14 10:50	321-60-8	
Terphenyl-d14 (S)	65 %		40-130		1	10/14/14 09:35	10/16/14 10:50	1718-51-0	

<b>8260 MSV Med Level Short List</b> Analytical Method: EPA 8260      Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	10/15/14 07:30	10/15/14 13:31	71-43-2	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/15/14 07:30	10/15/14 13:31	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	102 %		37-152		1	10/15/14 07:30	10/15/14 13:31	1868-53-7	
4-Bromofluorobenzene (S)	102 %		39-139		1	10/15/14 07:30	10/15/14 13:31	460-00-4	
Toluene-d8 (S)	108 %		38-154		1	10/15/14 07:30	10/15/14 13:31	2037-26-5	

<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	7.1 %		0.10	0.10	1		10/13/14 11:17		

**Sample: 100914106**      **Lab ID: 40105126002**      Collected: 10/09/14 11:16      Received: 10/10/14 16:08      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Benzo(a)anthracene	<5.9	ug/kg	17.1	5.9	1	10/14/14 09:35	10/15/14 10:14	56-55-3	
Benzo(a)pyrene	<6.1	ug/kg	17.1	6.1	1	10/14/14 09:35	10/15/14 10:14	50-32-8	
Benzo(b)fluoranthene	<8.5	ug/kg	17.1	8.5	1	10/14/14 09:35	10/15/14 10:14	205-99-2	
Benzo(k)fluoranthene	<9.5	ug/kg	17.1	9.5	1	10/14/14 09:35	10/15/14 10:14	207-08-9	
Chrysene	<7.9	ug/kg	17.1	7.9	1	10/14/14 09:35	10/15/14 10:14	218-01-9	
Dibenz(a,h)anthracene	<6.3	ug/kg	17.1	6.3	1	10/14/14 09:35	10/15/14 10:14	53-70-3	
Indeno(1,2,3-cd)pyrene	<6.5	ug/kg	17.1	6.5	1	10/14/14 09:35	10/15/14 10:14	193-39-5	
1-Methylnaphthalene	<8.5	ug/kg	17.1	8.5	1	10/14/14 09:35	10/15/14 10:14	90-12-0	
2-Methylnaphthalene	<8.5	ug/kg	17.1	8.5	1	10/14/14 09:35	10/15/14 10:14	91-57-6	
Naphthalene	<8.5	ug/kg	17.1	8.5	1	10/14/14 09:35	10/15/14 10:14	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	66 %		40-130		1	10/14/14 09:35	10/15/14 10:14	321-60-8	
Terphenyl-d14 (S)	68 %		40-130		1	10/14/14 09:35	10/15/14 10:14	1718-51-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1549 WPSC MARINETTE FORMER MGP

Pace Project No.: 40105126

**Sample: 100914106**      **Lab ID: 40105126002**      Collected: 10/09/14 11:16      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/15/14 07:30	10/15/14 13:54	71-43-2	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/15/14 07:30	10/15/14 13:54	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	98 %		37-152		1	10/15/14 07:30	10/15/14 13:54	1868-53-7	
4-Bromofluorobenzene (S)	100 %		39-139		1	10/15/14 07:30	10/15/14 13:54	460-00-4	
Toluene-d8 (S)	99 %		38-154		1	10/15/14 07:30	10/15/14 13:54	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	2.4 %		0.10	0.10	1		10/13/14 11:18		

**Sample: 100914107**      **Lab ID: 40105126003**      Collected: 10/09/14 11:16      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3546							
Benzo(a)anthracene	<5.9	ug/kg	17.1	5.9	1	10/14/14 09:35	10/15/14 10:31	56-55-3	
Benzo(a)pyrene	<6.1	ug/kg	17.1	6.1	1	10/14/14 09:35	10/15/14 10:31	50-32-8	
Benzo(b)fluoranthene	<8.6	ug/kg	17.1	8.6	1	10/14/14 09:35	10/15/14 10:31	205-99-2	
Benzo(k)fluoranthene	<9.5	ug/kg	17.1	9.5	1	10/14/14 09:35	10/15/14 10:31	207-08-9	
Chrysene	<7.9	ug/kg	17.1	7.9	1	10/14/14 09:35	10/15/14 10:31	218-01-9	
Dibenz(a,h)anthracene	<6.3	ug/kg	17.1	6.3	1	10/14/14 09:35	10/15/14 10:31	53-70-3	
Indeno(1,2,3-cd)pyrene	<6.5	ug/kg	17.1	6.5	1	10/14/14 09:35	10/15/14 10:31	193-39-5	
1-Methylnaphthalene	<8.6	ug/kg	17.1	8.6	1	10/14/14 09:35	10/15/14 10:31	90-12-0	
2-Methylnaphthalene	<8.6	ug/kg	17.1	8.6	1	10/14/14 09:35	10/15/14 10:31	91-57-6	
Naphthalene	<8.6	ug/kg	17.1	8.6	1	10/14/14 09:35	10/15/14 10:31	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	71 %		40-130		1	10/14/14 09:35	10/15/14 10:31	321-60-8	
Terphenyl-d14 (S)	73 %		40-130		1	10/14/14 09:35	10/15/14 10:31	1718-51-0	
<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/15/14 07:30	10/15/14 14:16	71-43-2	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/15/14 07:30	10/15/14 14:16	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	99 %		37-152		1	10/15/14 07:30	10/15/14 14:16	1868-53-7	
4-Bromofluorobenzene (S)	99 %		39-139		1	10/15/14 07:30	10/15/14 14:16	460-00-4	
Toluene-d8 (S)	105 %		38-154		1	10/15/14 07:30	10/15/14 14:16	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	2.6 %		0.10	0.10	1		10/13/14 11:18		

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### ANALYTICAL RESULTS

Project: 1549 WPSC MARINETTE FORMER MGP

Pace Project No.: 40105126

**Sample: 100914108**      **Lab ID: 40105126004**      Collected: 10/09/14 12:05      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Benzo(a)anthracene	5500	ug/kg	375	130	20	10/14/14 09:35	10/15/14 09:05	56-55-3	
Benzo(a)pyrene	3730	ug/kg	375	134	20	10/14/14 09:35	10/15/14 09:05	50-32-8	
Benzo(b)fluoranthene	6250	ug/kg	375	187	20	10/14/14 09:35	10/15/14 09:05	205-99-2	
Benzo(k)fluoranthene	5980	ug/kg	375	208	20	10/14/14 09:35	10/15/14 09:05	207-08-9	
Chrysene	9800	ug/kg	375	173	20	10/14/14 09:35	10/15/14 09:05	218-01-9	
Dibenz(a,h)anthracene	2220	ug/kg	375	138	20	10/14/14 09:35	10/15/14 09:05	53-70-3	
Indeno(1,2,3-cd)pyrene	4140	ug/kg	375	142	20	10/14/14 09:35	10/15/14 09:05	193-39-5	
1-Methylnaphthalene	496	ug/kg	375	187	20	10/14/14 09:35	10/15/14 09:05	90-12-0	
2-Methylnaphthalene	838	ug/kg	375	187	20	10/14/14 09:35	10/15/14 09:05	91-57-6	
Naphthalene	1690	ug/kg	375	187	20	10/14/14 09:35	10/15/14 09:05	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	63 %		40-130		20	10/14/14 09:35	10/15/14 09:05	321-60-8	
Terphenyl-d14 (S)	69 %		40-130		20	10/14/14 09:35	10/15/14 09:05	1718-51-0	

<b>8260 MSV Med Level Short List</b> Analytical Method: EPA 8260      Preparation Method: EPA 5035/5030B									
Benzene	148	ug/kg	67.5	28.1	1	10/15/14 07:30	10/15/14 14:44	71-43-2	
Xylene (Total)	95.2J	ug/kg	202	84.4	1	10/15/14 07:30	10/15/14 14:44	1330-20-7	
<b>Surrogates</b>									
Dibromofluoromethane (S)	94 %		37-152		1	10/15/14 07:30	10/15/14 14:44	1868-53-7	
4-Bromofluorobenzene (S)	100 %		39-139		1	10/15/14 07:30	10/15/14 14:44	460-00-4	
Toluene-d8 (S)	95 %		38-154		1	10/15/14 07:30	10/15/14 14:44	2037-26-5	

<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	11.1 %		0.10	0.10	1		10/13/14 11:18		

**Sample: 100914109**      **Lab ID: 40105126005**      Collected: 10/09/14 12:25      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Benzo(a)anthracene	1410	ug/kg	85.9	29.8	5	10/14/14 09:35	10/15/14 13:41	56-55-3	
Benzo(a)pyrene	1170	ug/kg	85.9	30.7	5	10/14/14 09:35	10/15/14 13:41	50-32-8	
Benzo(b)fluoranthene	1370	ug/kg	85.9	43.0	5	10/14/14 09:35	10/15/14 13:41	205-99-2	
Benzo(k)fluoranthene	1300	ug/kg	85.9	47.6	5	10/14/14 09:35	10/15/14 13:41	207-08-9	
Chrysene	1590	ug/kg	85.9	39.7	5	10/14/14 09:35	10/15/14 13:41	218-01-9	
Dibenz(a,h)anthracene	346	ug/kg	85.9	31.5	5	10/14/14 09:35	10/15/14 13:41	53-70-3	
Indeno(1,2,3-cd)pyrene	944	ug/kg	85.9	32.6	5	10/14/14 09:35	10/15/14 13:41	193-39-5	
1-Methylnaphthalene	89.9	ug/kg	85.9	43.0	5	10/14/14 09:35	10/15/14 13:41	90-12-0	
2-Methylnaphthalene	126	ug/kg	85.9	43.0	5	10/14/14 09:35	10/15/14 13:41	91-57-6	
Naphthalene	250	ug/kg	85.9	43.0	5	10/14/14 09:35	10/15/14 13:41	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	80 %		40-130		5	10/14/14 09:35	10/15/14 13:41	321-60-8	
Terphenyl-d14 (S)	84 %		40-130		5	10/14/14 09:35	10/15/14 13:41	1718-51-0	

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## ANALYTICAL RESULTS

Project: 1549 WPSC MARINETTE FORMER MGP  
Pace Project No.: 40105126

**Sample: 100914109**      **Lab ID: 40105126005**      Collected: 10/09/14 12:25      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	<b>28.7J</b>	ug/kg	61.9	25.8	1	10/15/14 07:30	10/15/14 15:06	71-43-2	
Xylene (Total)	<b>&lt;75.0</b>	ug/kg	180	75.0	1	10/15/14 07:30	10/15/14 15:06	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	37-152		1	10/15/14 07:30	10/15/14 15:06	1868-53-7	
4-Bromofluorobenzene (S)	111	%	39-139		1	10/15/14 07:30	10/15/14 15:06	460-00-4	
Toluene-d8 (S)	111	%	38-154		1	10/15/14 07:30	10/15/14 15:06	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>3.0</b>	%	0.10	0.10	1		10/13/14 11:18		

**Sample: 100914110**      **Lab ID: 40105126006**      Collected: 10/09/14 13:15      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3546							
Benzo(a)anthracene	<b>&lt;11.9</b>	ug/kg	34.4	11.9	1	10/14/14 09:35	10/15/14 10:49	56-55-3	
Benzo(a)pyrene	<b>&lt;12.3</b>	ug/kg	34.4	12.3	1	10/14/14 09:35	10/15/14 10:49	50-32-8	
Benzo(b)fluoranthene	<b>&lt;17.2</b>	ug/kg	34.4	17.2	1	10/14/14 09:35	10/15/14 10:49	205-99-2	
Benzo(k)fluoranthene	<b>&lt;19.0</b>	ug/kg	34.4	19.0	1	10/14/14 09:35	10/15/14 10:49	207-08-9	
Chrysene	<b>&lt;15.9</b>	ug/kg	34.4	15.9	1	10/14/14 09:35	10/15/14 10:49	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;12.6</b>	ug/kg	34.4	12.6	1	10/14/14 09:35	10/15/14 10:49	53-70-3	
Indeno(1,2,3-cd)pyrene	<b>&lt;13.1</b>	ug/kg	34.4	13.1	1	10/14/14 09:35	10/15/14 10:49	193-39-5	
1-Methylnaphthalene	<b>&lt;17.2</b>	ug/kg	34.4	17.2	1	10/14/14 09:35	10/15/14 10:49	90-12-0	
2-Methylnaphthalene	<b>&lt;17.2</b>	ug/kg	34.4	17.2	1	10/14/14 09:35	10/15/14 10:49	91-57-6	
Naphthalene	<b>&lt;17.2</b>	ug/kg	34.4	17.2	1	10/14/14 09:35	10/15/14 10:49	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	96	%	40-130		1	10/14/14 09:35	10/15/14 10:49	321-60-8	
Terphenyl-d14 (S)	99	%	40-130		1	10/14/14 09:35	10/15/14 10:49	1718-51-0	
<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	<b>&lt;25.0</b>	ug/kg	60.0	25.0	1	10/15/14 07:30	10/15/14 15:29	71-43-2	W
Xylene (Total)	<b>&lt;75.0</b>	ug/kg	180	75.0	1	10/15/14 07:30	10/15/14 15:29	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	95	%	37-152		1	10/15/14 07:30	10/15/14 15:29	1868-53-7	
4-Bromofluorobenzene (S)	101	%	39-139		1	10/15/14 07:30	10/15/14 15:29	460-00-4	
Toluene-d8 (S)	105	%	38-154		1	10/15/14 07:30	10/15/14 15:29	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>3.1</b>	%	0.10	0.10	1		10/13/14 11:18		

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### ANALYTICAL RESULTS

Project: 1549 WPSC MARINETTE FORMER MGP

Pace Project No.: 40105126

**Sample: 100914111**      **Lab ID: 40105126007**      Collected: 10/09/14 14:25      Received: 10/10/14 16:08      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Benzo(a)anthracene	137	ug/kg	19.1	6.6	1	10/14/14 09:35	10/15/14 18:33	56-55-3	
Benzo(a)pyrene	169	ug/kg	19.1	6.8	1	10/14/14 09:35	10/15/14 18:33	50-32-8	
Benzo(b)fluoranthene	145	ug/kg	19.1	9.5	1	10/14/14 09:35	10/15/14 18:33	205-99-2	
Benzo(k)fluoranthene	131	ug/kg	19.1	10.6	1	10/14/14 09:35	10/15/14 18:33	207-08-9	
Chrysene	157	ug/kg	19.1	8.8	1	10/14/14 09:35	10/15/14 18:33	218-01-9	
Dibenz(a,h)anthracene	30.3	ug/kg	19.1	7.0	1	10/14/14 09:35	10/15/14 18:33	53-70-3	
Indeno(1,2,3-cd)pyrene	82.9	ug/kg	19.1	7.3	1	10/14/14 09:35	10/15/14 18:33	193-39-5	
1-Methylnaphthalene	31.6	ug/kg	19.1	9.5	1	10/14/14 09:35	10/15/14 18:33	90-12-0	
2-Methylnaphthalene	45.2	ug/kg	19.1	9.5	1	10/14/14 09:35	10/15/14 18:33	91-57-6	
Naphthalene	43.8	ug/kg	19.1	9.5	1	10/14/14 09:35	10/15/14 18:33	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72	%	40-130		1	10/14/14 09:35	10/15/14 18:33	321-60-8	
Terphenyl-d14 (S)	70	%	40-130		1	10/14/14 09:35	10/15/14 18:33	1718-51-0	
<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260      Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/15/14 07:30	10/15/14 15:52	71-43-2	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/15/14 07:30	10/15/14 15:52	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	97	%	37-152		1	10/15/14 07:30	10/15/14 15:52	1868-53-7	
4-Bromofluorobenzene (S)	99	%	39-139		1	10/15/14 07:30	10/15/14 15:52	460-00-4	
Toluene-d8 (S)	105	%	38-154		1	10/15/14 07:30	10/15/14 15:52	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	12.7	%	0.10	0.10	1		10/13/14 11:18		

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### QUALITY CONTROL DATA

Project: 1549 WPSC MARINETTE FORMER MGP  
Pace Project No.: 40105126

QC Batch: MSV/26181 Analysis Method: EPA 8260  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List  
Associated Lab Samples: 40105126001, 40105126002, 40105126003, 40105126004, 40105126005, 40105126006, 40105126007

METHOD BLANK: 1064285 Matrix: Solid  
Associated Lab Samples: 40105126001, 40105126002, 40105126003, 40105126004, 40105126005, 40105126006, 40105126007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	<9.2	20.0	10/15/14 10:07	
Xylene (Total)	ug/kg	<48.4	150	10/15/14 10:07	
4-Bromofluorobenzene (S)	%	109	39-139	10/15/14 10:07	
Dibromofluoromethane (S)	%	109	37-152	10/15/14 10:07	
Toluene-d8 (S)	%	109	38-154	10/15/14 10:07	

LABORATORY CONTROL SAMPLE & LCSD: 1064286

Parameter	Units	1064287							RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits				
Benzene	ug/kg	2500	2510	2600	100	104	70-130	4	20		
Xylene (Total)	ug/kg	7500	8290	8300	111	111	70-130	0	20		
4-Bromofluorobenzene (S)	%				113	115	39-139				
Dibromofluoromethane (S)	%				110	117	37-152				
Toluene-d8 (S)	%				108	112	38-154				

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### QUALITY CONTROL DATA

Project: 1549 WPSC MARINETTE FORMER MGP

Pace Project No.: 40105126

QC Batch: OEXT/24663 Analysis Method: EPA 8270 by SIM  
 QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM  
 Associated Lab Samples: 40105126001, 40105126002, 40105126003, 40105126004, 40105126005, 40105126006, 40105126007

METHOD BLANK: 1063226 Matrix: Solid  
 Associated Lab Samples: 40105126001, 40105126002, 40105126003, 40105126004, 40105126005, 40105126006, 40105126007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	10/14/14 14:01	
2-Methylnaphthalene	ug/kg	<8.3	16.7	10/14/14 14:01	
Benzo(a)anthracene	ug/kg	<5.8	16.7	10/14/14 14:01	
Benzo(a)pyrene	ug/kg	<6.0	16.7	10/14/14 14:01	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	10/14/14 14:01	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	10/14/14 14:01	
Chrysene	ug/kg	<7.7	16.7	10/14/14 14:01	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	10/14/14 14:01	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	10/14/14 14:01	
Naphthalene	ug/kg	<8.3	16.7	10/14/14 14:01	
2-Fluorobiphenyl (S)	%	74	40-130	10/14/14 14:01	
Terphenyl-d14 (S)	%	83	40-130	10/14/14 14:01	

LABORATORY CONTROL SAMPLE: 1063227

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	289	87	47-130	
2-Methylnaphthalene	ug/kg	333	285	85	48-130	
Benzo(a)anthracene	ug/kg	333	316	95	55-130	
Benzo(a)pyrene	ug/kg	333	311	93	56-130	
Benzo(b)fluoranthene	ug/kg	333	295	88	53-130	
Benzo(k)fluoranthene	ug/kg	333	303	91	52-130	
Chrysene	ug/kg	333	330	99	58-130	
Dibenz(a,h)anthracene	ug/kg	333	302	90	55-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	302	91	54-130	
Naphthalene	ug/kg	333	277	83	41-130	
2-Fluorobiphenyl (S)	%			83	40-130	
Terphenyl-d14 (S)	%			90	40-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1063228 1063229

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40105127005 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	ug/kg	<37.0	370	370	264	326	67	84	42-130	21	32	
2-Methylnaphthalene	ug/kg	<37.0	370	370	274	341	65	83	34-130	22	35	
Benzo(a)anthracene	ug/kg	603	370	370	710	1030	29	116	29-130	37	30	R1
Benzo(a)pyrene	ug/kg	674	370	370	772	1140	26	127	35-130	39	33	M1, R1
Benzo(b)fluoranthene	ug/kg	499	370	370	684	882	50	104	21-142	25	44	

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### QUALITY CONTROL DATA

Project: 1549 WPSC MARINETTE FORMER MGP

Pace Project No.: 40105126

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1063228		1063229		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
		40105127005 Result	MS Spike Conc.	MSD Spike Conc.	RPD						RPD		
Benzo(k)fluoranthene	ug/kg	566	370	370	629	1010	17	120	35-130	46	37	M1,R1	
Chrysene	ug/kg	617	370	370	734	1040	31	116	37-130	35	38	M1	
Dibenz(a,h)anthracene	ug/kg	126	370	370	349	425	60	81	23-130	20	27		
Indeno(1,2,3-cd)pyrene	ug/kg	386	370	370	534	766	40	103	17-134	36	28	R1	
Naphthalene	ug/kg	90.3	370	370	296	373	56	76	24-130	23	40		
2-Fluorobiphenyl (S)	%						65	79	40-130				
Terphenyl-d14 (S)	%						68	81	40-130				

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### QUALITY CONTROL DATA

Project: 1549 WPSC MARINETTE FORMER MGP

Pace Project No.: 40105126

QC Batch: PMST/10461

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40105126001, 40105126002, 40105126003, 40105126004, 40105126005, 40105126006, 40105126007

SAMPLE DUPLICATE: 1062776

Parameter	Units	40105124001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.4	17.2	1	10	

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## QUALIFIERS

Project: 1549 WPSC MARINETTE FORMER MGP

Pace Project No.: 40105126

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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: MSV/26182

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

### ANALYTE QUALIFIERS

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

R1 RPD value was outside control limits.

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 WPSC MARINETTE FORMER MGP

Pace Project No.: 40105126

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40105126001	100914105	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105126002	100914106	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105126003	100914107	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105126004	100914108	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105126005	100914109	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105126006	100914110	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105126007	100914111	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105126001	100914105	EPA 5035/5030B	MSV/26181	EPA 8260	MSV/26182
40105126002	100914106	EPA 5035/5030B	MSV/26181	EPA 8260	MSV/26182
40105126003	100914107	EPA 5035/5030B	MSV/26181	EPA 8260	MSV/26182
40105126004	100914108	EPA 5035/5030B	MSV/26181	EPA 8260	MSV/26182
40105126005	100914109	EPA 5035/5030B	MSV/26181	EPA 8260	MSV/26182
40105126006	100914110	EPA 5035/5030B	MSV/26181	EPA 8260	MSV/26182
40105126007	100914111	EPA 5035/5030B	MSV/26181	EPA 8260	MSV/26182
40105126001	100914105	ASTM D2974-87	PMST/10461		
40105126002	100914106	ASTM D2974-87	PMST/10461		
40105126003	100914107	ASTM D2974-87	PMST/10461		
40105126004	100914108	ASTM D2974-87	PMST/10461		
40105126005	100914109	ASTM D2974-87	PMST/10461		
40105126006	100914110	ASTM D2974-87	PMST/10461		
40105126007	100914111	ASTM D2974-87	PMST/10461		

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(Please Print Clearly)

Company Name: NATURAL RESOURCE TECHNOLOGY  
 Branch/Location: MILWAUKEE, WI  
 Project Contact: BRIAN HEWINGS, JODY BARBRAU  
 Phone:  
 Project Number: 1549  
 Project Name: WISC WASTEWATER TREATMENT PLANT  
 Project State: WI  
 Sampled By (Print): PHIL PROCHOCKI  
 Sampled By (Sign): *[Signature]*  
 PO #: 3400010643 Regulatory Program: CERCLA



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

40105126

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### CHAIN OF CUSTODY

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

FILTERED? (YES/NO)	PRESERVATION (CODE)*	Y/N	Pick Letter	Analyses Requested	See Attached List	COLLECTION			
						DATE	TIME	MATRIX	
					X	1-4	1/2	Ag <sup>+</sup>	1-40ml V <sup>F</sup>

Quote #:  
 Mail To Contact: Jody Barbrau  
 Mail To Company: NATURAL RESOURCE TECHNOLOGY  
 Mail To Address: 234 W. FLORIDA ST. MILWAUKEE, WI 53204  
 Invoice To Contact: IBS  
 Invoice To Company: IBS  
 Invoice To Address: 700 N. ADAMS ST. GREEN BAY, WI  
 Invoice To Phone:

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION			Y/N	Pick Letter	Analyses Requested	See Attached List	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
		DATE	TIME	MATRIX							
001	100914105	1/9/14	1009	S				X	1-40ml V <sup>F</sup>		
002	100914106		1116								
003	100914107		1116								
004	100914108		1205								
005	100914109		1225								
006	100914110		1315								
007	100914111		1425								

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: 5 DAY - TAT

Transmit Prelim Rush Results by (complete what you want):

Relinquished By: *[Signature]* Date/Time: 10.10.14 1608  
 Received By: *[Signature]* Date/Time: 10/10/14 1608

Relinquished By: Date/Time: Received By: Date/Time:

Relinquished By: Date/Time: Received By: Date/Time:

Relinquished By: Date/Time: Received By: Date/Time:

Relinquished By: Date/Time: Received By: Date/Time:

Relinquished By: Date/Time: Received By: Date/Time:

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 40105126  
 Receipt Temp = *RuT* °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present  
 Intact / Not Intact



40105126



BY: PRB DATE: 10.10.14 CLIENT: 1549

CHKD. BY: \_\_\_\_\_ DATE: \_\_\_\_\_ PROJECT/TASK: \_\_\_\_\_

SUBJECT: PAGE LABS PAGE: \_\_\_\_\_ OF: \_\_\_\_\_

1549 ANALYTE LIST PER NOTE ON C.O.C.

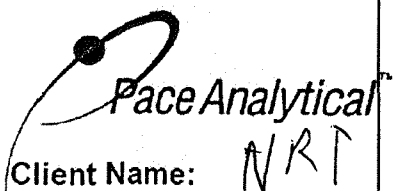
- BENZENE 8260B
- TOTAL XYLENES 8260B
- SITE SPECIFIC P.A.H. 8270C OR 8270 SIM

1. BENZO (a) ANTHRACENE
2. BENZO (a) PYRENE
3. BENZO (b) FLUORANTHENE
4. BENZO (k) FLUORANTHENE
5. CHRYSENE
6. DiBENZO (A, L) ANTHRACENE
7. IDENO (1,2,3-CD) PYRENE
8. NAPHTHALENE
9. 2-METHYLNAPHTHALENE
10. 1-METHYLNAPHTHALENE

IF QUESTIONS CONTACT BRIAN HANNINGS @ NRT.

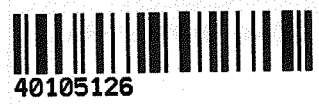
Sample Condition Upon Receipt

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



Client Name: NRT

Project # **WO# : 40105126**



Courier:  Fed Ex  UPS  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 NA Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RGE /Corr: \_\_\_\_\_ Biological Tissue is Frozen:  yes  no

Temp Blank Present:  yes  no  no

Person examining contents:  
Date: 10/15/14  
Initials: SB

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input 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: - VOA Samples frozen upon receipt	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No	5. Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>5-day SB 10/15/14</u>
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used: -Pace Containers Used: -Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: <u>S</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>cc 3 - No label/ID matched by elimination SB 10/15/14</u>
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed Lab Std #/ID of preservative Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

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

Project Manager Review: [Signature] Date: 10-13-14

October 17, 2014

Brian Hennings  
NATURAL RESOURCE TECHNOLOGY  
234 W. Florida St, 5th Floor  
Milwaukee, WI 53204

RE: Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40105127

Dear Brian Hennings:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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  
Project Manager

Enclosures

cc: NRT Data, Natural Resource Technologies



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40105127

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40105127001	100914200	Solid	10/09/14 10:30	10/10/14 16:08
40105127002	100914201	Solid	10/09/14 11:30	10/10/14 16:08
40105127003	100914202	Solid	10/09/14 12:15	10/10/14 16:08
40105127004	100914203	Solid	10/09/14 12:30	10/10/14 16:08
40105127005	100914204	Solid	10/09/14 13:05	10/10/14 16:08
40105127006	100914205	Solid	10/09/14 14:30	10/10/14 16:08
40105127007	100914206	Solid	10/09/14 15:20	10/10/14 16:08
40105127008	100914207	Solid	10/09/14 16:00	10/10/14 16:08
40105127009	101014208	Solid	10/10/14 07:05	10/10/14 16:08
40105127010	101014209	Solid	10/10/14 07:50	10/10/14 16:08
40105127011	101014210	Solid	10/10/14 09:20	10/10/14 16:08
40105127012	101014211	Solid	10/10/14 10:00	10/10/14 16:08
40105127013	101014212	Solid	10/10/14 10:25	10/10/14 16:08
40105127014	101014214	Solid	10/10/14 10:50	10/10/14 16:08
40105127015	101014215	Water	10/10/14 11:45	10/10/14 16:08

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40105127001	100914200	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105127002	100914201	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105127003	100914202	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105127004	100914203	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105127005	100914204	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105127006	100914205	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105127007	100914206	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105127008	100914207	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105127009	101014208	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105127010	101014209	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105127011	101014210	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105127012	101014211	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105127013	101014212	EPA 8270 by SIM	RJN	12	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40105127

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105127014	101014214	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	SMT	5	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40105127015	101014215	EPA 8270 by SIM	RJN	12	PASI-G
		EPA 8260	LAP	5	PASI-G

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40105127

---

**Method:** EPA 8270 by SIM  
**Description:** 8270 MSSV PAH by SIM  
**Client:** Natural Resources Technologies  
**Date:** October 17, 2014

### General Information:

15 samples were analyzed for EPA 8270 by SIM. All samples were received in acceptable condition with any exceptions noted below.

### 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 3546 with any exceptions noted below.

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

### Initial Calibrations (including MS Tune as applicable):

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

### Continuing Calibration:

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

### Internal Standards:

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

### Surrogates:

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

### Method Blank:

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

### Laboratory Control Spike:

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

### Matrix Spikes:

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

QC Batch: OEXT/24663

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40105127005

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

- MS (Lab ID: 1063228)
  - Benzo(a)pyrene
  - Benzo(k)fluoranthene
  - Chrysene

R1: RPD value was outside control limits.

- MSD (Lab ID: 1063229)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(k)fluoranthene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

---

**Method:** EPA 8270 by SIM

**Description:** 8270 MSSV PAH by SIM

**Client:** Natural Resources Technologies

**Date:** October 17, 2014

QC Batch: OEXT/24663

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40105127005

R1: RPD value was outside control limits.

- Indeno(1,2,3-cd)pyrene

QC Batch: OEXT/24710

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40105127

---

**Method:** EPA 8260  
**Description:** 8260 MSV Med Level Short List  
**Client:** Natural Resources Technologies  
**Date:** October 17, 2014

**General Information:**

14 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

**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 5035/5030B with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Internal Standards:**

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

**Surrogates:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

QC Batch: MSV/26181

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

QC Batch: MSV/26184

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

---

**Method:** EPA 8260

**Description:** 8260 MSV UST

**Client:** Natural Resources Technologies

**Date:** October 17, 2014

**General Information:**

1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

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

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Internal Standards:**

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

**Surrogates:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Additional Comments:**

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

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

**Sample: 100914200**      **Lab ID: 40105127001**      Collected: 10/09/14 10:30      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Benzo(a)anthracene	<b>708</b>	ug/kg	73.3	25.4	4	10/14/14 09:35	10/15/14 13:24	56-55-3	
Benzo(a)pyrene	<b>942</b>	ug/kg	73.3	26.2	4	10/14/14 09:35	10/15/14 13:24	50-32-8	
Benzo(b)fluoranthene	<b>750</b>	ug/kg	73.3	36.7	4	10/14/14 09:35	10/15/14 13:24	205-99-2	
Benzo(k)fluoranthene	<b>717</b>	ug/kg	73.3	40.6	4	10/14/14 09:35	10/15/14 13:24	207-08-9	
Chrysene	<b>710</b>	ug/kg	73.3	33.9	4	10/14/14 09:35	10/15/14 13:24	218-01-9	
Dibenz(a,h)anthracene	<b>185</b>	ug/kg	73.3	26.9	4	10/14/14 09:35	10/15/14 13:24	53-70-3	
Indeno(1,2,3-cd)pyrene	<b>579</b>	ug/kg	73.3	27.9	4	10/14/14 09:35	10/15/14 13:24	193-39-5	
1-Methylnaphthalene	<b>&lt;36.7</b>	ug/kg	73.3	36.7	4	10/14/14 09:35	10/15/14 13:24	90-12-0	
2-Methylnaphthalene	<b>53.2J</b>	ug/kg	73.3	36.7	4	10/14/14 09:35	10/15/14 13:24	91-57-6	
Naphthalene	<b>122</b>	ug/kg	73.3	36.7	4	10/14/14 09:35	10/15/14 13:24	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72 %		40-130		4	10/14/14 09:35	10/15/14 13:24	321-60-8	
Terphenyl-d14 (S)	75 %		40-130		4	10/14/14 09:35	10/15/14 13:24	1718-51-0	

<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260      Preparation Method: EPA 5035/5030B							
Benzene	<b>&lt;25.0</b>	ug/kg	60.0	25.0	1	10/15/14 07:30	10/15/14 16:14	71-43-2	W
Xylene (Total)	<b>&lt;75.0</b>	ug/kg	180	75.0	1	10/15/14 07:30	10/15/14 16:14	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	101 %		37-152		1	10/15/14 07:30	10/15/14 16:14	1868-53-7	
4-Bromofluorobenzene (S)	104 %		39-139		1	10/15/14 07:30	10/15/14 16:14	460-00-4	
Toluene-d8 (S)	108 %		38-154		1	10/15/14 07:30	10/15/14 16:14	2037-26-5	

<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>9.1</b>	%	0.10	0.10	1		10/13/14 12:51		

**Sample: 100914201**      **Lab ID: 40105127002**      Collected: 10/09/14 11:30      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Benzo(a)anthracene	<b>1970</b>	ug/kg	148	51.2	4	10/14/14 09:35	10/15/14 13:06	56-55-3	
Benzo(a)pyrene	<b>2430</b>	ug/kg	148	52.8	4	10/14/14 09:35	10/15/14 13:06	50-32-8	
Benzo(b)fluoranthene	<b>1840</b>	ug/kg	148	73.9	4	10/14/14 09:35	10/15/14 13:06	205-99-2	
Benzo(k)fluoranthene	<b>1840</b>	ug/kg	148	81.8	4	10/14/14 09:35	10/15/14 13:06	207-08-9	
Chrysene	<b>1920</b>	ug/kg	148	68.3	4	10/14/14 09:35	10/15/14 13:06	218-01-9	
Dibenz(a,h)anthracene	<b>429</b>	ug/kg	148	54.2	4	10/14/14 09:35	10/15/14 13:06	53-70-3	
Indeno(1,2,3-cd)pyrene	<b>1390</b>	ug/kg	148	56.2	4	10/14/14 09:35	10/15/14 13:06	193-39-5	
1-Methylnaphthalene	<b>&lt;73.9</b>	ug/kg	148	73.9	4	10/14/14 09:35	10/15/14 13:06	90-12-0	
2-Methylnaphthalene	<b>134J</b>	ug/kg	148	73.9	4	10/14/14 09:35	10/15/14 13:06	91-57-6	
Naphthalene	<b>339</b>	ug/kg	148	73.9	4	10/14/14 09:35	10/15/14 13:06	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	110 %		40-130		4	10/14/14 09:35	10/15/14 13:06	321-60-8	
Terphenyl-d14 (S)	112 %		40-130		4	10/14/14 09:35	10/15/14 13:06	1718-51-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40105127

**Sample: 100914201**      **Lab ID: 40105127002**      Collected: 10/09/14 11:30      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/15/14 07:30	10/15/14 16:37	71-43-2	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/15/14 07:30	10/15/14 16:37	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	92 %		37-152		1	10/15/14 07:30	10/15/14 16:37	1868-53-7	
4-Bromofluorobenzene (S)	97 %		39-139		1	10/15/14 07:30	10/15/14 16:37	460-00-4	
Toluene-d8 (S)	102 %		38-154		1	10/15/14 07:30	10/15/14 16:37	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	9.8 %		0.10	0.10	1		10/13/14 12:51		

**Sample: 100914202**      **Lab ID: 40105127003**      Collected: 10/09/14 12:15      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3546							
Benzo(a)anthracene	3680	ug/kg	363	126	20	10/14/14 09:35	10/15/14 09:22	56-55-3	
Benzo(a)pyrene	4790	ug/kg	363	130	20	10/14/14 09:35	10/15/14 09:22	50-32-8	
Benzo(b)fluoranthene	3740	ug/kg	363	182	20	10/14/14 09:35	10/15/14 09:22	205-99-2	
Benzo(k)fluoranthene	3540	ug/kg	363	201	20	10/14/14 09:35	10/15/14 09:22	207-08-9	
Chrysene	3690	ug/kg	363	168	20	10/14/14 09:35	10/15/14 09:22	218-01-9	
Dibenz(a,h)anthracene	891	ug/kg	363	133	20	10/14/14 09:35	10/15/14 09:22	53-70-3	
Indeno(1,2,3-cd)pyrene	2740	ug/kg	363	138	20	10/14/14 09:35	10/15/14 09:22	193-39-5	
1-Methylnaphthalene	<182	ug/kg	363	182	20	10/14/14 09:35	10/15/14 09:22	90-12-0	
2-Methylnaphthalene	216J	ug/kg	363	182	20	10/14/14 09:35	10/15/14 09:22	91-57-6	
Naphthalene	401	ug/kg	363	182	20	10/14/14 09:35	10/15/14 09:22	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	71 %		40-130		20	10/14/14 09:35	10/15/14 09:22	321-60-8	
Terphenyl-d14 (S)	75 %		40-130		20	10/14/14 09:35	10/15/14 09:22	1718-51-0	
<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	60.3J	ug/kg	68.8	28.7	1	10/15/14 07:30	10/15/14 16:59	71-43-2	
Xylene (Total)	<78.9	ug/kg	189	78.9	1	10/15/14 07:30	10/15/14 16:59	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	119 %		37-152		1	10/15/14 07:30	10/15/14 16:59	1868-53-7	
4-Bromofluorobenzene (S)	123 %		39-139		1	10/15/14 07:30	10/15/14 16:59	460-00-4	
Toluene-d8 (S)	127 %		38-154		1	10/15/14 07:30	10/15/14 16:59	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	8.2 %		0.10	0.10	1		10/13/14 12:51		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Lab Project No.: 40105127

**Sample: 100914203**      **Lab ID: 40105127004**      Collected: 10/09/14 12:30      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Benzo(a)anthracene	5910	ug/kg	731	254	20	10/14/14 09:35	10/15/14 09:39	56-55-3	
Benzo(a)pyrene	7600	ug/kg	731	261	20	10/14/14 09:35	10/15/14 09:39	50-32-8	
Benzo(b)fluoranthene	5560	ug/kg	731	366	20	10/14/14 09:35	10/15/14 09:39	205-99-2	
Benzo(k)fluoranthene	6410	ug/kg	731	405	20	10/14/14 09:35	10/15/14 09:39	207-08-9	
Chrysene	6200	ug/kg	731	338	20	10/14/14 09:35	10/15/14 09:39	218-01-9	
Dibenz(a,h)anthracene	1370	ug/kg	731	268	20	10/14/14 09:35	10/15/14 09:39	53-70-3	
Indeno(1,2,3-cd)pyrene	4390	ug/kg	731	278	20	10/14/14 09:35	10/15/14 09:39	193-39-5	
1-Methylnaphthalene	<366	ug/kg	731	366	20	10/14/14 09:35	10/15/14 09:39	90-12-0	
2-Methylnaphthalene	<366	ug/kg	731	366	20	10/14/14 09:35	10/15/14 09:39	91-57-6	
Naphthalene	618J	ug/kg	731	366	20	10/14/14 09:35	10/15/14 09:39	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	89 %		40-130		20	10/14/14 09:35	10/15/14 09:39	321-60-8	
Terphenyl-d14 (S)	95 %		40-130		20	10/14/14 09:35	10/15/14 09:39	1718-51-0	

<b>8260 MSV Med Level Short List</b> Analytical Method: EPA 8260      Preparation Method: EPA 5035/5030B									
Benzene	30.3J	ug/kg	65.8	27.4	1	10/15/14 07:30	10/15/14 17:22	71-43-2	
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/15/14 07:30	10/15/14 17:22	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	101 %		37-152		1	10/15/14 07:30	10/15/14 17:22	1868-53-7	
4-Bromofluorobenzene (S)	105 %		39-139		1	10/15/14 07:30	10/15/14 17:22	460-00-4	
Toluene-d8 (S)	106 %		38-154		1	10/15/14 07:30	10/15/14 17:22	2037-26-5	

<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	8.8	%	0.10	0.10	1		10/13/14 12:51		

**Sample: 100914204**      **Lab ID: 40105127005**      Collected: 10/09/14 13:05      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Benzo(a)anthracene	603	ug/kg	74.0	25.6	4	10/14/14 09:35	10/15/14 17:07	56-55-3	R1
Benzo(a)pyrene	674	ug/kg	74.0	26.4	4	10/14/14 09:35	10/15/14 17:07	50-32-8	M1,R1
Benzo(b)fluoranthene	499	ug/kg	74.0	37.0	4	10/14/14 09:35	10/15/14 17:07	205-99-2	
Benzo(k)fluoranthene	566	ug/kg	74.0	40.9	4	10/14/14 09:35	10/15/14 17:07	207-08-9	M1,R1
Chrysene	617	ug/kg	74.0	34.2	4	10/14/14 09:35	10/15/14 17:07	218-01-9	M1
Dibenz(a,h)anthracene	126	ug/kg	74.0	27.1	4	10/14/14 09:35	10/15/14 17:07	53-70-3	
Indeno(1,2,3-cd)pyrene	386	ug/kg	74.0	28.1	4	10/14/14 09:35	10/15/14 17:07	193-39-5	R1
1-Methylnaphthalene	<37.0	ug/kg	74.0	37.0	4	10/14/14 09:35	10/15/14 17:07	90-12-0	
2-Methylnaphthalene	<37.0	ug/kg	74.0	37.0	4	10/14/14 09:35	10/15/14 17:07	91-57-6	
Naphthalene	90.3	ug/kg	74.0	37.0	4	10/14/14 09:35	10/15/14 17:07	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	75 %		40-130		4	10/14/14 09:35	10/15/14 17:07	321-60-8	
Terphenyl-d14 (S)	72 %		40-130		4	10/14/14 09:35	10/15/14 17:07	1718-51-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

**Sample: 100914204**      **Lab ID: 40105127005**      Collected: 10/09/14 13:05      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/15/14 07:30	10/15/14 17:44	71-43-2	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/15/14 07:30	10/15/14 17:44	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	94	%	37-152		1	10/15/14 07:30	10/15/14 17:44	1868-53-7	
4-Bromofluorobenzene (S)	96	%	39-139		1	10/15/14 07:30	10/15/14 17:44	460-00-4	
Toluene-d8 (S)	103	%	38-154		1	10/15/14 07:30	10/15/14 17:44	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	9.9	%	0.10	0.10	1		10/13/14 12:52		

**Sample: 100914205**      **Lab ID: 40105127006**      Collected: 10/09/14 14:30      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3546							
Benzo(a)anthracene	1890	ug/kg	182	63.1	10	10/14/14 09:35	10/15/14 18:16	56-55-3	
Benzo(a)pyrene	2120	ug/kg	182	65.0	10	10/14/14 09:35	10/15/14 18:16	50-32-8	
Benzo(b)fluoranthene	1900	ug/kg	182	91.0	10	10/14/14 09:35	10/15/14 18:16	205-99-2	
Benzo(k)fluoranthene	1770	ug/kg	182	101	10	10/14/14 09:35	10/15/14 18:16	207-08-9	
Chrysene	2010	ug/kg	182	84.1	10	10/14/14 09:35	10/15/14 18:16	218-01-9	
Dibenz(a,h)anthracene	468	ug/kg	182	66.7	10	10/14/14 09:35	10/15/14 18:16	53-70-3	
Indeno(1,2,3-cd)pyrene	1380	ug/kg	182	69.1	10	10/14/14 09:35	10/15/14 18:16	193-39-5	
1-Methylnaphthalene	<91.0	ug/kg	182	91.0	10	10/14/14 09:35	10/15/14 18:16	90-12-0	
2-Methylnaphthalene	93.8J	ug/kg	182	91.0	10	10/14/14 09:35	10/15/14 18:16	91-57-6	
Naphthalene	219	ug/kg	182	91.0	10	10/14/14 09:35	10/15/14 18:16	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72	%	40-130		10	10/14/14 09:35	10/15/14 18:16	321-60-8	
Terphenyl-d14 (S)	74	%	40-130		10	10/14/14 09:35	10/15/14 18:16	1718-51-0	
<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/15/14 07:30	10/15/14 18:07	71-43-2	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/15/14 07:30	10/15/14 18:07	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	95	%	37-152		1	10/15/14 07:30	10/15/14 18:07	1868-53-7	
4-Bromofluorobenzene (S)	101	%	39-139		1	10/15/14 07:30	10/15/14 18:07	460-00-4	
Toluene-d8 (S)	100	%	38-154		1	10/15/14 07:30	10/15/14 18:07	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	8.4	%	0.10	0.10	1		10/13/14 12:52		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

**Sample: 100914206**      **Lab ID: 40105127007**      Collected: 10/09/14 15:20      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Benzo(a)anthracene	1530	ug/kg	147	51.0	4	10/14/14 09:35	10/15/14 12:49	56-55-3	
Benzo(a)pyrene	1830	ug/kg	147	52.6	4	10/14/14 09:35	10/15/14 12:49	50-32-8	
Benzo(b)fluoranthene	1520	ug/kg	147	73.5	4	10/14/14 09:35	10/15/14 12:49	205-99-2	
Benzo(k)fluoranthene	1490	ug/kg	147	81.4	4	10/14/14 09:35	10/15/14 12:49	207-08-9	
Chrysene	1560	ug/kg	147	68.0	4	10/14/14 09:35	10/15/14 12:49	218-01-9	
Dibenz(a,h)anthracene	380	ug/kg	147	53.9	4	10/14/14 09:35	10/15/14 12:49	53-70-3	
Indeno(1,2,3-cd)pyrene	1170	ug/kg	147	55.9	4	10/14/14 09:35	10/15/14 12:49	193-39-5	
1-Methylnaphthalene	78.3J	ug/kg	147	73.5	4	10/14/14 09:35	10/15/14 12:49	90-12-0	
2-Methylnaphthalene	115J	ug/kg	147	73.5	4	10/14/14 09:35	10/15/14 12:49	91-57-6	
Naphthalene	344	ug/kg	147	73.5	4	10/14/14 09:35	10/15/14 12:49	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	96 %		40-130		4	10/14/14 09:35	10/15/14 12:49	321-60-8	
Terphenyl-d14 (S)	101 %		40-130		4	10/14/14 09:35	10/15/14 12:49	1718-51-0	

<b>8260 MSV Med Level Short List</b> Analytical Method: EPA 8260      Preparation Method: EPA 5035/5030B									
Benzene	153	ug/kg	66.2	27.6	1	10/15/14 14:45	10/15/14 23:52	71-43-2	
Xylene (Total)	86.5J	ug/kg	198	82.7	1	10/15/14 14:45	10/15/14 23:52	1330-20-7	
<b>Surrogates</b>									
Dibromofluoromethane (S)	88 %		37-152		1	10/15/14 14:45	10/15/14 23:52	1868-53-7	
4-Bromofluorobenzene (S)	91 %		39-139		1	10/15/14 14:45	10/15/14 23:52	460-00-4	
Toluene-d8 (S)	92 %		38-154		1	10/15/14 14:45	10/15/14 23:52	2037-26-5	

<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	9.3 %		0.10	0.10	1		10/13/14 12:52		

**Sample: 100914207**      **Lab ID: 40105127008**      Collected: 10/09/14 16:00      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Benzo(a)anthracene	5850	ug/kg	371	128	20	10/14/14 09:35	10/15/14 08:48	56-55-3	
Benzo(a)pyrene	6690	ug/kg	371	133	20	10/14/14 09:35	10/15/14 08:48	50-32-8	
Benzo(b)fluoranthene	5040	ug/kg	371	185	20	10/14/14 09:35	10/15/14 08:48	205-99-2	
Benzo(k)fluoranthene	5220	ug/kg	371	205	20	10/14/14 09:35	10/15/14 08:48	207-08-9	
Chrysene	5890	ug/kg	371	171	20	10/14/14 09:35	10/15/14 08:48	218-01-9	
Dibenz(a,h)anthracene	1180	ug/kg	371	136	20	10/14/14 09:35	10/15/14 08:48	53-70-3	
Indeno(1,2,3-cd)pyrene	3860	ug/kg	371	141	20	10/14/14 09:35	10/15/14 08:48	193-39-5	
1-Methylnaphthalene	<185	ug/kg	371	185	20	10/14/14 09:35	10/15/14 08:48	90-12-0	
2-Methylnaphthalene	253J	ug/kg	371	185	20	10/14/14 09:35	10/15/14 08:48	91-57-6	
Naphthalene	648	ug/kg	371	185	20	10/14/14 09:35	10/15/14 08:48	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	66 %		40-130		20	10/14/14 09:35	10/15/14 08:48	321-60-8	
Terphenyl-d14 (S)	72 %		40-130		20	10/14/14 09:35	10/15/14 08:48	1718-51-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

**Sample: 100914207**      **Lab ID: 40105127008**      Collected: 10/09/14 16:00      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	<b>86.7</b>	ug/kg	66.7	27.8	1	10/15/14 14:45	10/16/14 00:14	71-43-2	
Xylene (Total)	<b>&lt;75.0</b>	ug/kg	180	75.0	1	10/15/14 14:45	10/16/14 00:14	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	89 %		37-152		1	10/15/14 14:45	10/16/14 00:14	1868-53-7	
4-Bromofluorobenzene (S)	94 %		39-139		1	10/15/14 14:45	10/16/14 00:14	460-00-4	
Toluene-d8 (S)	90 %		38-154		1	10/15/14 14:45	10/16/14 00:14	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>10.1</b>	%	0.10	0.10	1		10/13/14 12:52		

**Sample: 101014208**      **Lab ID: 40105127009**      Collected: 10/10/14 07:05      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3546							
Benzo(a)anthracene	<b>810</b>	ug/kg	144	49.8	4	10/14/14 09:35	10/15/14 17:59	56-55-3	
Benzo(a)pyrene	<b>1040</b>	ug/kg	144	51.4	4	10/14/14 09:35	10/15/14 17:59	50-32-8	
Benzo(b)fluoranthene	<b>941</b>	ug/kg	144	71.9	4	10/14/14 09:35	10/15/14 17:59	205-99-2	
Benzo(k)fluoranthene	<b>889</b>	ug/kg	144	79.6	4	10/14/14 09:35	10/15/14 17:59	207-08-9	
Chrysene	<b>997</b>	ug/kg	144	66.5	4	10/14/14 09:35	10/15/14 17:59	218-01-9	
Dibenz(a,h)anthracene	<b>242</b>	ug/kg	144	52.7	4	10/14/14 09:35	10/15/14 17:59	53-70-3	
Indeno(1,2,3-cd)pyrene	<b>644</b>	ug/kg	144	54.6	4	10/14/14 09:35	10/15/14 17:59	193-39-5	
1-Methylnaphthalene	<b>&lt;71.9</b>	ug/kg	144	71.9	4	10/14/14 09:35	10/15/14 17:59	90-12-0	
2-Methylnaphthalene	<b>108J</b>	ug/kg	144	71.9	4	10/14/14 09:35	10/15/14 17:59	91-57-6	
Naphthalene	<b>187</b>	ug/kg	144	71.9	4	10/14/14 09:35	10/15/14 17:59	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	95 %		40-130		4	10/14/14 09:35	10/15/14 17:59	321-60-8	
Terphenyl-d14 (S)	100 %		40-130		4	10/14/14 09:35	10/15/14 17:59	1718-51-0	
<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	<b>&lt;25.0</b>	ug/kg	60.0	25.0	1	10/15/14 14:45	10/16/14 00:36	71-43-2	W
Xylene (Total)	<b>&lt;75.0</b>	ug/kg	180	75.0	1	10/15/14 14:45	10/16/14 00:36	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	88 %		37-152		1	10/15/14 14:45	10/16/14 00:36	1868-53-7	
4-Bromofluorobenzene (S)	89 %		39-139		1	10/15/14 14:45	10/16/14 00:36	460-00-4	
Toluene-d8 (S)	94 %		38-154		1	10/15/14 14:45	10/16/14 00:36	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>7.3</b>	%	0.10	0.10	1		10/13/14 12:52		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

**Sample: 101014209**      **Lab ID: 40105127010**      Collected: 10/10/14 07:50      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Benzo(a)anthracene	365	ug/kg	35.7	12.4	1	10/14/14 09:35	10/15/14 09:57	56-55-3	
Benzo(a)pyrene	401	ug/kg	35.7	12.7	1	10/14/14 09:35	10/15/14 09:57	50-32-8	
Benzo(b)fluoranthene	329	ug/kg	35.7	17.8	1	10/14/14 09:35	10/15/14 09:57	205-99-2	
Benzo(k)fluoranthene	341	ug/kg	35.7	19.7	1	10/14/14 09:35	10/15/14 09:57	247-08-9	
Chrysene	441	ug/kg	35.7	16.5	1	10/14/14 09:35	10/15/14 09:57	218-01-9	
Dibenz(a,h)anthracene	80.6	ug/kg	35.7	13.1	1	10/14/14 09:35	10/15/14 09:57	53-70-3	
Indeno(1,2,3-cd)pyrene	216	ug/kg	35.7	13.5	1	10/14/14 09:35	10/15/14 09:57	193-39-5	
1-Methylnaphthalene	18.4J	ug/kg	35.7	17.8	1	10/14/14 09:35	10/15/14 09:57	90-12-0	
2-Methylnaphthalene	22.1J	ug/kg	35.7	17.8	1	10/14/14 09:35	10/15/14 09:57	91-57-6	
Naphthalene	25.3J	ug/kg	35.7	17.8	1	10/14/14 09:35	10/15/14 09:57	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	91 %		40-130		1	10/14/14 09:35	10/15/14 09:57	321-60-8	
Terphenyl-d14 (S)	91 %		40-130		1	10/14/14 09:35	10/15/14 09:57	1718-51-0	

<b>8260 MSV Med Level Short List</b> Analytical Method: EPA 8260      Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	10/15/14 14:45	10/16/14 00:59	71-43-2	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/15/14 14:45	10/16/14 00:59	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	90 %		37-152		1	10/15/14 14:45	10/16/14 00:59	1868-53-7	
4-Bromofluorobenzene (S)	92 %		39-139		1	10/15/14 14:45	10/16/14 00:59	460-00-4	
Toluene-d8 (S)	95 %		38-154		1	10/15/14 14:45	10/16/14 00:59	2037-26-5	

<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	6.5	%	0.10	0.10	1		10/13/14 12:52		

**Sample: 101014210**      **Lab ID: 40105127011**      Collected: 10/10/14 09:20      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Benzo(a)anthracene	227	ug/kg	21.8	7.6	1	10/14/14 09:35	10/15/14 18:50	56-55-3	
Benzo(a)pyrene	307	ug/kg	21.8	7.8	1	10/14/14 09:35	10/15/14 18:50	50-32-8	
Benzo(b)fluoranthene	331	ug/kg	21.8	10.9	1	10/14/14 09:35	10/15/14 18:50	205-99-2	
Benzo(k)fluoranthene	262	ug/kg	21.8	12.1	1	10/14/14 09:35	10/15/14 18:50	207-08-9	
Chrysene	311	ug/kg	21.8	10.1	1	10/14/14 09:35	10/15/14 18:50	218-01-9	
Dibenz(a,h)anthracene	73.1	ug/kg	21.8	8.0	1	10/14/14 09:35	10/15/14 18:50	53-70-3	
Indeno(1,2,3-cd)pyrene	176	ug/kg	21.8	8.3	1	10/14/14 09:35	10/15/14 18:50	193-39-5	
1-Methylnaphthalene	24.3	ug/kg	21.8	10.9	1	10/14/14 09:35	10/15/14 18:50	90-12-0	
2-Methylnaphthalene	33.0	ug/kg	21.8	10.9	1	10/14/14 09:35	10/15/14 18:50	91-57-6	
Naphthalene	33.4	ug/kg	21.8	10.9	1	10/14/14 09:35	10/15/14 18:50	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	84 %		40-130		1	10/14/14 09:35	10/15/14 18:50	321-60-8	
Terphenyl-d14 (S)	82 %		40-130		1	10/14/14 09:35	10/15/14 18:50	1718-51-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

**Sample: 101014210**      **Lab ID: 40105127011**      Collected: 10/10/14 09:20      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/15/14 14:45	10/16/14 01:21	71-43-2	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/15/14 14:45	10/16/14 01:21	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	82	%	37-152		1	10/15/14 14:45	10/16/14 01:21	1868-53-7	
4-Bromofluorobenzene (S)	85	%	39-139		1	10/15/14 14:45	10/16/14 01:21	460-00-4	
Toluene-d8 (S)	91	%	38-154		1	10/15/14 14:45	10/16/14 01:21	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	23.6	%	0.10	0.10	1		10/13/14 12:52		

**Sample: 101014211**      **Lab ID: 40105127012**      Collected: 10/10/14 10:00      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3546							
Benzo(a)anthracene	646	ug/kg	89.0	30.9	5	10/15/14 08:34	10/16/14 15:08	56-55-3	
Benzo(a)pyrene	756	ug/kg	89.0	31.8	5	10/15/14 08:34	10/16/14 15:08	50-32-8	
Benzo(b)fluoranthene	764	ug/kg	89.0	44.5	5	10/15/14 08:34	10/16/14 15:08	205-99-2	
Benzo(k)fluoranthene	760	ug/kg	89.0	49.3	5	10/15/14 08:34	10/16/14 15:08	207-08-9	
Chrysene	877	ug/kg	89.0	41.2	5	10/15/14 08:34	10/16/14 15:08	218-01-9	
Dibenz(a,h)anthracene	172	ug/kg	89.0	32.7	5	10/15/14 08:34	10/16/14 15:08	53-70-3	
Indeno(1,2,3-cd)pyrene	486	ug/kg	89.0	33.8	5	10/15/14 08:34	10/16/14 15:08	193-39-5	
1-Methylnaphthalene	<44.5	ug/kg	89.0	44.5	5	10/15/14 08:34	10/16/14 15:08	90-12-0	
2-Methylnaphthalene	<44.5	ug/kg	89.0	44.5	5	10/15/14 08:34	10/16/14 15:08	91-57-6	
Naphthalene	<44.5	ug/kg	89.0	44.5	5	10/15/14 08:34	10/16/14 15:08	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	59	%	40-130		5	10/15/14 08:34	10/16/14 15:08	321-60-8	
Terphenyl-d14 (S)	61	%	40-130		5	10/15/14 08:34	10/16/14 15:08	1718-51-0	
<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	10/15/14 14:45	10/16/14 01:44	71-43-2	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/15/14 14:45	10/16/14 01:44	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	92	%	37-152		1	10/15/14 14:45	10/16/14 01:44	1868-53-7	
4-Bromofluorobenzene (S)	99	%	39-139		1	10/15/14 14:45	10/16/14 01:44	460-00-4	
Toluene-d8 (S)	99	%	38-154		1	10/15/14 14:45	10/16/14 01:44	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	6.4	%	0.10	0.10	1		10/13/14 12:52		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40105127

**Sample: 101014212**      **Lab ID: 40105127013**      Collected: 10/10/14 10:25      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Benzo(a)anthracene	566	ug/kg	90.5	31.4	5	10/15/14 08:34	10/16/14 15:25	56-55-3	
Benzo(a)pyrene	720	ug/kg	90.5	32.4	5	10/15/14 08:34	10/16/14 15:25	50-32-8	
Benzo(b)fluoranthene	753	ug/kg	90.5	45.3	5	10/15/14 08:34	10/16/14 15:25	205-99-2	
Benzo(k)fluoranthene	695	ug/kg	90.5	50.1	5	10/15/14 08:34	10/16/14 15:25	207-08-9	
Chrysene	822	ug/kg	90.5	41.9	5	10/15/14 08:34	10/16/14 15:25	218-01-9	
Dibenz(a,h)anthracene	157	ug/kg	90.5	33.2	5	10/15/14 08:34	10/16/14 15:25	53-70-3	
Indeno(1,2,3-cd)pyrene	445	ug/kg	90.5	34.4	5	10/15/14 08:34	10/16/14 15:25	193-39-5	
1-Methylnaphthalene	<45.3	ug/kg	90.5	45.3	5	10/15/14 08:34	10/16/14 15:25	90-12-0	
2-Methylnaphthalene	<45.3	ug/kg	90.5	45.3	5	10/15/14 08:34	10/16/14 15:25	91-57-6	
Naphthalene	<45.3	ug/kg	90.5	45.3	5	10/15/14 08:34	10/16/14 15:25	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	71 %		40-130		5	10/15/14 08:34	10/16/14 15:25	321-60-8	
Terphenyl-d14 (S)	77 %		40-130		5	10/15/14 08:34	10/16/14 15:25	1718-51-0	

<b>8260 MSV Med Level Short List</b> Analytical Method: EPA 8260      Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	10/15/14 14:45	10/16/14 02:06	71-43-2	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	10/15/14 14:45	10/16/14 02:06	1330-20-7	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	124 %		37-152		1	10/15/14 14:45	10/16/14 02:06	1868-53-7	
4-Bromofluorobenzene (S)	129 %		39-139		1	10/15/14 14:45	10/16/14 02:06	460-00-4	
Toluene-d8 (S)	134 %		38-154		1	10/15/14 14:45	10/16/14 02:06	2037-26-5	

<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	8.0	%	0.10	0.10	1		10/13/14 12:52		

**Sample: 101014214**      **Lab ID: 40105127014**      Collected: 10/10/14 10:50      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Benzo(a)anthracene	4930	ug/kg	354	123	20	10/15/14 08:34	10/16/14 11:07	56-55-3	
Benzo(a)pyrene	6340	ug/kg	354	127	20	10/15/14 08:34	10/16/14 11:07	50-32-8	
Benzo(b)fluoranthene	4700	ug/kg	354	177	20	10/15/14 08:34	10/16/14 11:07	205-99-2	
Benzo(k)fluoranthene	5270	ug/kg	354	196	20	10/15/14 08:34	10/16/14 11:07	207-08-9	
Chrysene	5230	ug/kg	354	164	20	10/15/14 08:34	10/16/14 11:07	218-01-9	
Dibenz(a,h)anthracene	1340	ug/kg	354	130	20	10/15/14 08:34	10/16/14 11:07	53-70-3	
Indeno(1,2,3-cd)pyrene	3870	ug/kg	354	134	20	10/15/14 08:34	10/16/14 11:07	193-39-5	
1-Methylnaphthalene	336J	ug/kg	354	177	20	10/15/14 08:34	10/16/14 11:07	90-12-0	
2-Methylnaphthalene	540	ug/kg	354	177	20	10/15/14 08:34	10/16/14 11:07	91-57-6	
Naphthalene	637	ug/kg	354	177	20	10/15/14 08:34	10/16/14 11:07	91-20-3	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	65 %		40-130		20	10/15/14 08:34	10/16/14 11:07	321-60-8	
Terphenyl-d14 (S)	70 %		40-130		20	10/15/14 08:34	10/16/14 11:07	1718-51-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

**Sample: 101014214**      **Lab ID: 40105127014**      Collected: 10/10/14 10:50      Received: 10/10/14 16:08      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Short List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<b>1620</b>	ug/kg	63.7	26.5	1	10/15/14 14:45	10/16/14 02:29	71-43-2	
Xylene (Total)	<b>1900</b>	ug/kg	191	79.6	1	10/15/14 14:45	10/16/14 02:29	1330-20-7	
<b>Surrogates</b>									
Dibromofluoromethane (S)	88 %		37-152		1	10/15/14 14:45	10/16/14 02:29	1868-53-7	
4-Bromofluorobenzene (S)	92 %		39-139		1	10/15/14 14:45	10/16/14 02:29	460-00-4	
Toluene-d8 (S)	94 %		38-154		1	10/15/14 14:45	10/16/14 02:29	2037-26-5	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>5.8</b>	%	0.10	0.10	1		10/13/14 12:52		

**Sample information not shared, due to sample not being related to this property.**

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

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QC Batch: MSV/26181 Analysis Method: EPA 8260  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List  
 Associated Lab Samples: 40105127001, 40105127002, 40105127003, 40105127004, 40105127005, 40105127006

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METHOD BLANK: 1064285 Matrix: Solid  
 Associated Lab Samples: 40105127001, 40105127002, 40105127003, 40105127004, 40105127005, 40105127006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	<9.2	20.0	10/15/14 10:07	
Xylene (Total)	ug/kg	<48.4	150	10/15/14 10:07	
4-Bromofluorobenzene (S)	%	109	39-139	10/15/14 10:07	
Dibromofluoromethane (S)	%	109	37-152	10/15/14 10:07	
Toluene-d8 (S)	%	109	38-154	10/15/14 10:07	

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LABORATORY CONTROL SAMPLE & LCSD: 1064286 1064287

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/kg	2500	2510	2600	100	104	70-130	4	20	
Xylene (Total)	ug/kg	7500	8290	8300	111	111	70-130	0	20	
4-Bromofluorobenzene (S)	%				113	115	39-139			
Dibromofluoromethane (S)	%				110	117	37-152			
Toluene-d8 (S)	%				108	112	38-154			

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40105127

QC Batch: MSV/26184 Analysis Method: EPA 8260  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List  
Associated Lab Samples: 40105127007, 40105127008, 40105127009, 40105127010, 40105127011, 40105127012, 40105127013, 40105127014

METHOD BLANK: 1064483 Matrix: Solid  
Associated Lab Samples: 40105127007, 40105127008, 40105127009, 40105127010, 40105127011, 40105127012, 40105127013, 40105127014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	<9.2	20.0	10/15/14 21:13	
Xylene (Total)	ug/kg	<48.4	150	10/15/14 21:13	
4-Bromofluorobenzene (S)	%	102	39-139	10/15/14 21:13	
Dibromofluoromethane (S)	%	103	37-152	10/15/14 21:13	
Toluene-d8 (S)	%	111	38-154	10/15/14 21:13	

LABORATORY CONTROL SAMPLE & LCSD: 1064484

Parameter	Units	1064485								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/kg	2500	2570	2520	103	101	70-130	2	20	
Xylene (Total)	ug/kg	7500	8490	8060	113	107	70-130	5	20	
4-Bromofluorobenzene (S)	%				115	107	39-139			
Dibromofluoromethane (S)	%				109	109	37-152			
Toluene-d8 (S)	%				110	108	38-154			

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

QC Batch: MSV/26146

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV UST-WATER

Associated Lab Samples: 40105127015

METHOD BLANK: 1062782

Matrix: Water

Associated Lab Samples: 40105127015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	10/14/14 07:18	
Xylene (Total)	ug/L	<1.5	3.0	10/14/14 07:18	
4-Bromofluorobenzene (S)	%	85	59-130	10/14/14 07:18	
Dibromofluoromethane (S)	%	100	70-130	10/14/14 07:18	
Toluene-d8 (S)	%	97	70-130	10/14/14 07:18	

LABORATORY CONTROL SAMPLE & LCSD: 1062783

1062784

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	54.6	52.7	109	105	70-130	4	20	
Xylene (Total)	ug/L	150	173	165	116	110	70-130	5	20	
4-Bromofluorobenzene (S)	%				96	98	59-130			
Dibromofluoromethane (S)	%				107	107	70-130			
Toluene-d8 (S)	%				98	98	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1063119

1063120

Parameter	Units	40105142001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	52.5	51.7	105	103	70-130	2	20	
Xylene (Total)	ug/L	<1.5	150	150	169	167	112	111	70-132	1	20	
4-Bromofluorobenzene (S)	%						98	99	59-130			
Dibromofluoromethane (S)	%						108	107	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

QC Batch: OEXT/24663 Analysis Method: EPA 8270 by SIM  
 QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM  
 Associated Lab Samples: 40105127001, 40105127002, 40105127003, 40105127004, 40105127005, 40105127006, 40105127007, 40105127008, 40105127009, 40105127010, 40105127011

METHOD BLANK: 1063226 Matrix: Solid  
 Associated Lab Samples: 40105127001, 40105127002, 40105127003, 40105127004, 40105127005, 40105127006, 40105127007, 40105127008, 40105127009, 40105127010, 40105127011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	10/14/14 14:01	
2-Methylnaphthalene	ug/kg	<8.3	16.7	10/14/14 14:01	
Benzo(a)anthracene	ug/kg	<5.8	16.7	10/14/14 14:01	
Benzo(a)pyrene	ug/kg	<6.0	16.7	10/14/14 14:01	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	10/14/14 14:01	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	10/14/14 14:01	
Chrysene	ug/kg	<7.7	16.7	10/14/14 14:01	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	10/14/14 14:01	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	10/14/14 14:01	
Naphthalene	ug/kg	<8.3	16.7	10/14/14 14:01	
2-Fluorobiphenyl (S)	%	74	40-130	10/14/14 14:01	
Terphenyl-d14 (S)	%	83	40-130	10/14/14 14:01	

LABORATORY CONTROL SAMPLE: 1063227

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	289	87	47-130	
2-Methylnaphthalene	ug/kg	333	285	85	48-130	
Benzo(a)anthracene	ug/kg	333	316	95	55-130	
Benzo(a)pyrene	ug/kg	333	311	93	56-130	
Benzo(b)fluoranthene	ug/kg	333	295	88	53-130	
Benzo(k)fluoranthene	ug/kg	333	303	91	52-130	
Chrysene	ug/kg	333	330	99	58-130	
Dibenz(a,h)anthracene	ug/kg	333	302	90	55-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	302	91	54-130	
Naphthalene	ug/kg	333	277	83	41-130	
2-Fluorobiphenyl (S)	%			83	40-130	
Terphenyl-d14 (S)	%			90	40-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1063228 1063229

Parameter	Units	40105127005 Result	MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	MS Result	MSD Result						
1-Methylnaphthalene	ug/kg	<37.0	370	370	264	326	67	84	42-130	21	32	
2-Methylnaphthalene	ug/kg	<37.0	370	370	274	341	65	83	34-130	22	35	
Benzo(a)anthracene	ug/kg	603	370	370	710	1030	29	116	29-130	37	30	R1
Benzo(a)pyrene	ug/kg	674	370	370	772	1140	26	127	35-130	39	33	M1,R1

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40105127

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1063228		1063229		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40105127005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Benzo(b)fluoranthene	ug/kg	499	370	370	684	882	50	104	21-142	25	44		
Benzo(k)fluoranthene	ug/kg	566	370	370	629	1010	17	120	35-130	46	37	M1, R1	
Chrysene	ug/kg	617	370	370	734	1040	31	116	37-130	35	38	M1	
Dibenz(a,h)anthracene	ug/kg	126	370	370	349	425	60	81	23-130	20	27		
Indeno(1,2,3-cd)pyrene	ug/kg	386	370	370	534	766	40	103	17-134	36	28	R1	
Naphthalene	ug/kg	90.3	370	370	296	373	56	76	24-130	23	40		
2-Fluorobiphenyl (S)	%						65	79	40-130				
Terphenyl-d14 (S)	%						68	81	40-130				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

QC Batch: OEXT/24688 Analysis Method: EPA 8270 by SIM  
 QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM  
 Associated Lab Samples: 40105127012, 40105127013, 40105127014

METHOD BLANK: 1063871 Matrix: Solid

Associated Lab Samples: 40105127012, 40105127013, 40105127014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	10/15/14 11:40	
2-Methylnaphthalene	ug/kg	<8.3	16.7	10/15/14 11:40	
Benzo(a)anthracene	ug/kg	<5.8	16.7	10/15/14 11:40	
Benzo(a)pyrene	ug/kg	<6.0	16.7	10/15/14 11:40	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	10/15/14 11:40	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	10/15/14 11:40	
Chrysene	ug/kg	<7.7	16.7	10/15/14 11:40	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	10/15/14 11:40	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	10/15/14 11:40	
Naphthalene	ug/kg	<8.3	16.7	10/15/14 11:40	
2-Fluorobiphenyl (S)	%	75	40-130	10/15/14 11:40	
Terphenyl-d14 (S)	%	81	40-130	10/15/14 11:40	

LABORATORY CONTROL SAMPLE: 1063872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	301	90	47-130	
2-Methylnaphthalene	ug/kg	333	300	90	48-130	
Benzo(a)anthracene	ug/kg	333	324	97	55-130	
Benzo(a)pyrene	ug/kg	333	324	97	56-130	
Benzo(b)fluoranthene	ug/kg	333	301	90	53-130	
Benzo(k)fluoranthene	ug/kg	333	318	95	52-130	
Chrysene	ug/kg	333	336	101	58-130	
Dibenz(a,h)anthracene	ug/kg	333	300	90	55-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	301	90	54-130	
Naphthalene	ug/kg	333	290	87	41-130	
2-Fluorobiphenyl (S)	%			86	40-130	
Terphenyl-d14 (S)	%			89	40-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1063873 1063874

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40105149002 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	ug/kg	<17.2	344	344	269	266	78	77	42-130	1	32	
2-Methylnaphthalene	ug/kg	<17.2	344	344	268	265	78	77	34-130	1	35	
Benzo(a)anthracene	ug/kg	<17.2	344	344	272	274	79	80	29-130	1	30	
Benzo(a)pyrene	ug/kg	<17.2	344	344	270	270	78	79	35-130	0	33	
Benzo(b)fluoranthene	ug/kg	<17.2	344	344	249	264	72	77	21-142	6	44	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1063873		1063874		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40105149002 Result	MS Spike Conc.	MSD Spike Conc.									
Benzo(k)fluoranthene	ug/kg	<17.2	344	344	272	260	79	76	35-130	4	37		
Chrysene	ug/kg	<17.2	344	344	282	285	82	83	37-130	1	38		
Dibenz(a,h)anthracene	ug/kg	<17.2	344	344	247	245	72	71	23-130	1	27		
Indeno(1,2,3-cd)pyrene	ug/kg	<17.2	344	344	249	248	72	72	17-134	0	28		
Naphthalene	ug/kg	<17.2	344	344	259	257	75	75	24-130	1	40		
2-Fluorobiphenyl (S)	%							74	40-130				
Terphenyl-d14 (S)	%							75	40-130				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40105127

QC Batch: OEXT/24710 Analysis Method: EPA 8270 by SIM  
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV  
Associated Lab Samples: 40105127015

METHOD BLANK: 1064601 Matrix: Water  
Associated Lab Samples: 40105127015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0021	0.050	10/16/14 13:04	
2-Methylnaphthalene	ug/L	<0.0021	0.050	10/16/14 13:04	
Benzo(a)anthracene	ug/L	<0.0021	0.050	10/16/14 13:04	
Benzo(a)pyrene	ug/L	<0.0028	0.050	10/16/14 13:04	
Benzo(b)fluoranthene	ug/L	<0.0030	0.050	10/16/14 13:04	
Benzo(k)fluoranthene	ug/L	<0.0036	0.050	10/16/14 13:04	
Chrysene	ug/L	<0.0022	0.050	10/16/14 13:04	
Dibenz(a,h)anthracene	ug/L	<0.0034	0.050	10/16/14 13:04	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0027	0.050	10/16/14 13:04	
Naphthalene	ug/L	<0.0044	0.050	10/16/14 13:04	
2-Fluorobiphenyl (S)	%	90	24-130	10/16/14 13:04	
Terphenyl-d14 (S)	%	108	44-169	10/16/14 13:04	

LABORATORY CONTROL SAMPLE & LCSD: 1064602

Parameter	Units	1064603									
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1-Methylnaphthalene	ug/L	.2	0.11	0.12	57	60	35-130	5	50		
2-Methylnaphthalene	ug/L	.2	0.11	0.12	55	58	32-130	6	50		
Benzo(a)anthracene	ug/L	.2	0.17	0.14	85	72	40-130	17	20		
Benzo(a)pyrene	ug/L	.2	0.21	0.20	103	100	51-130	3	20		
Benzo(b)fluoranthene	ug/L	.2	0.18	0.16	90	81	45-130	10	23		
Benzo(k)fluoranthene	ug/L	.2	0.23	0.25	113	123	60-130	8	20		
Chrysene	ug/L	.2	0.25	0.24	123	118	62-130	4	20		
Dibenz(a,h)anthracene	ug/L	.2	0.18	0.18	90	92	51-130	2	20		
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.18	0.18	90	92	56-130	3	20		
Naphthalene	ug/L	.2	0.12	0.12	60	61	30-130	2	50		
2-Fluorobiphenyl (S)	%				63	64	24-130				
Terphenyl-d14 (S)	%				82	81	44-169				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40105127

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QC Batch:	PMST/10463	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40105127001, 40105127002, 40105127003, 40105127004, 40105127005, 40105127006, 40105127007, 40105127008, 40105127009, 40105127010, 40105127011, 40105127012, 40105127013, 40105127014		

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SAMPLE DUPLICATE: 1062840

Parameter	Units	40105127001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.1	8.6	6	10	

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## QUALIFIERS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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: MSV/26182

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

Batch: MSV/26185

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

Batch: MSSV/7318

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

### ANALYTE QUALIFIERS

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

R1 RPD value was outside control limits.

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

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40105127

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40105127001	100914200	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105127002	100914201	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105127003	100914202	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105127004	100914203	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105127005	100914204	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105127006	100914205	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105127007	100914206	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105127008	100914207	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105127009	101014208	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105127010	101014209	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105127011	101014210	EPA 3546	OEXT/24663	EPA 8270 by SIM	MSSV/7310
40105127012	101014211	EPA 3546	OEXT/24688	EPA 8270 by SIM	MSSV/7315
40105127013	101014212	EPA 3546	OEXT/24688	EPA 8270 by SIM	MSSV/7315
40105127014	101014214	EPA 3546	OEXT/24688	EPA 8270 by SIM	MSSV/7315
40105127015	101014215	EPA 3510	OEXT/24710	EPA 8270 by SIM	MSSV/7318
40105127001	100914200	EPA 5035/5030B	MSV/26181	EPA 8260	MSV/26182
40105127002	100914201	EPA 5035/5030B	MSV/26181	EPA 8260	MSV/26182
40105127003	100914202	EPA 5035/5030B	MSV/26181	EPA 8260	MSV/26182
40105127004	100914203	EPA 5035/5030B	MSV/26181	EPA 8260	MSV/26182
40105127005	100914204	EPA 5035/5030B	MSV/26181	EPA 8260	MSV/26182
40105127006	100914205	EPA 5035/5030B	MSV/26181	EPA 8260	MSV/26182
40105127007	100914206	EPA 5035/5030B	MSV/26184	EPA 8260	MSV/26185
40105127008	100914207	EPA 5035/5030B	MSV/26184	EPA 8260	MSV/26185
40105127009	101014208	EPA 5035/5030B	MSV/26184	EPA 8260	MSV/26185
40105127010	101014209	EPA 5035/5030B	MSV/26184	EPA 8260	MSV/26185
40105127011	101014210	EPA 5035/5030B	MSV/26184	EPA 8260	MSV/26185
40105127012	101014211	EPA 5035/5030B	MSV/26184	EPA 8260	MSV/26185
40105127013	101014212	EPA 5035/5030B	MSV/26184	EPA 8260	MSV/26185
40105127014	101014214	EPA 5035/5030B	MSV/26184	EPA 8260	MSV/26185
40105127015	101014215	EPA 8260	MSV/26146		
40105127001	100914200	ASTM D2974-87	PMST/10463		
40105127002	100914201	ASTM D2974-87	PMST/10463		
40105127003	100914202	ASTM D2974-87	PMST/10463		
40105127004	100914203	ASTM D2974-87	PMST/10463		
40105127005	100914204	ASTM D2974-87	PMST/10463		
40105127006	100914205	ASTM D2974-87	PMST/10463		
40105127007	100914206	ASTM D2974-87	PMST/10463		
40105127008	100914207	ASTM D2974-87	PMST/10463		
40105127009	101014208	ASTM D2974-87	PMST/10463		
40105127010	101014209	ASTM D2974-87	PMST/10463		
40105127011	101014210	ASTM D2974-87	PMST/10463		
40105127012	101014211	ASTM D2974-87	PMST/10463		
40105127013	101014212	ASTM D2974-87	PMST/10463		
40105127014	101014214	ASTM D2974-87	PMST/10463		

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(Please Print Clearly)

Company Name: Natural Resource Tech  
 Branch/Location: Milwaukee WI  
 Project Contact: Brian Hennings  
 Phone: 414-837-3607  
 Project Number: 1549  
 Project Name: Marinette Former MGP  
 Project State: WI  
 Sampled By (Print): Andrew Gause  
 Sampled By (Sign): Andrew Gause  
 PO #:  
 Regulatory Program:



USB

UPPER MIDWEST REGION

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

40105127

### CHAIN OF CUSTODY

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

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

Y/N	1	N	n						
Pick Letter	F	F	A						
Analyses Requested	Benzene 8260	Total Xylenes 8260	MPA 8270						

Quote #: 3400010643  
 Mail To Contact: Jody Barbeau  
 Mail To Company: NRT  
 Mail To Address: 234 W Florida St  
 Milwaukee, WI  
 Invoice To Contact:  
 Invoice To Company: IBS  
 Invoice To Address:  
 Invoice To Phone:

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD** (billable)  
 On your sample  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	1	N	n						
		DATE	TIME											
001	100914200	10/9/14	10:30	S	X	X	X							
002	100914201	10/9/14	11:30	S	X	X	X							
003	100914202	10/9/14	12:15	S	X	X	X							
004	100914203	10/9/14	12:30	S	X	X	X							
005	100914204	10/9/14	13:05	S	X	X	X							
006	100914205	10/9/14	14:30	S	X	X	X							
007	100914206	10/9/14	15:20	S	X	X	X							
008	100914207	10/9/14	16:00	S	X	X	X							
009	101014208	10/10/14	7:03	S	X	X	X							
010	101014209	10/10/14	7:50	S	X	X	X							
011	101014210	10/10/14	9:20	S	X	X	X							
012	101014211	10/10/14	10:00	S	X	X	X							
013	101014212	10/10/14	10:25	S	X	X	X							

**CLIENT COMMENTS**  
 1-40ml VF  
 \* see attached list  
 mspmsd  
 2-4oz Ag 4

**LAB COMMENTS (Lab Use Only)**  
 1-4oz Ag 4

Profile #

Rush Turnaround Time Requested - Prelims  
 (Rush TAT subject to approval/surcharge)  
 Date Needed: 5 day TAT

Transmit Prelim Rush Results by (complete what you want):

Email #1:  
 Email #2:  
 Telephone:  
 Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: [Signature] Date/Time: 10/10/14 1600  
 Relinquished By: Date/Time:  
 Relinquished By: Date/Time:  
 Relinquished By: Date/Time:

Received By: [Signature] Date/Time: 10/10/14 1608  
 Received By: Date/Time:  
 Received By: Date/Time:  
 Received By: Date/Time:

PACE Project No.  
 Receipt Temp = 10.2 °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

Company Name: Natural Resource Tech  
 Branch/Location: Milwaukee, WI  
 Project Contact: Brian Hennings  
 Phone: 414-837-3607  
 Project Number: 1549  
 Project Name: Manomette Former MGP  
 Project State: WI  
 Sampled By (Print): Andrew Coural  
 Sampled By (Sign): Andrew Coural  
 PO #: \_\_\_\_\_ Regulatory Program: \_\_\_\_\_



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

40105727

### CHAIN OF CUSTODY

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

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

Y/N	Pick Letter	Analyses Requested	Matrix	DATE	TIME	MATRIX
N	F	Benzene 8260	S	10/10/14	10:50	S
N	F	Total Xylenes 8260	W	10/10/14	11:45	W
N	A	8BAHA 8270				

Quote #: 3400010643  
 Mail To Contact: Jody Barbeau  
 Mail To Company: NRT  
 Mail To Address: 234 W. Florida St  
Milwaukee, WI  
 Invoice To Contact: \_\_\_\_\_  
 Invoice To Company: IBS  
 Invoice To Address: \_\_\_\_\_  
 Invoice To Phone: \_\_\_\_\_  
 CLIENT COMMENTS: \_\_\_\_\_  
 LAB COMMENTS (Lab Use Only): \_\_\_\_\_  
 Profile #: \_\_\_\_\_

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
014	101014214	10/10/14	10:50	S
015	101014215	10/10/14	11:45	W

\* See attached list

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: 5 day TAT

Relinquished By: [Signature] Date/Time: 10/10/14 16:08  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: [Signature] Date/Time: 10/10/14 16:08  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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

Samples on HOLD are subject to special pricing and release of liability

BY: PRB DATE: 10.10.14 CLIENT: 1549

CHKD. BY: \_\_\_\_\_ DATE: \_\_\_\_\_ PROJECT/TASK: \_\_\_\_\_

SUBJECT: PAGE LABS PAGE: \_\_\_\_\_ OF: \_\_\_\_\_

40105727



1549 ANALYTE LIST PER NOTE ON C.O.C.

- BENZENE 8260 B
- TOTAL XYLENES 8260 B
- SITE-SPECIFIC P.A.H. 8270 C OR 8270 SIM

1. BENZO (a) ANTHRACENE
2. BENZO (a) PYRENE
3. BENZO (b) FLUORANTHENE
4. BENZO (k) FLUORANTHENE
5. CHRYSENE
6. DiBENZO (A, L) ANTHRACENE
7. Ideno (1,2,3-CD) PYRENE
8. NAPHTHALENE
9. 2-METHYLNAPHTHALENE
10. 1-METHYLNAPHTHALENE

IF QUESTIONS CONTACT BRIAN HEANINGS @ NRT.

BY: PRB DATE: 10.10.14 CLIENT 1549

CHKD.BY: \_\_\_\_\_ DATE: \_\_\_\_\_ PROJECT/TASK \_\_\_\_\_

SUBJECT: PAGE LABS PAGE: \_\_\_\_\_ OF: \_\_\_\_\_

40165127



1549 ANALYTE LIST PER NOTE ON C.O.C.

- BENZENE 8260 B
- TOTAL XYLENES 8260 B
- SITE-SPECIFIC P.A.H. 8270C OR 8270 SIM

1. BENZO (a) ANTHRACENE
2. BENZO (a) PYRENE
3. BENZO (b) FLUORANTHENE
4. BENZO (k) FLUORANTHENE
5. CHRYSENE
6. DiBENZO (A, L) ANTHRACENE
7. Ideno (1,2,3-CD) PYRENE
8. Naphthalene
9. 2-methyl Naphthalene
10. 1-methyl Naphthalene

IF QUESTIONS CONTACT BRIAN HENNINGS @ NRT.

Sample Condition Upon Receipt

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

**Pace Analytical**  
Client Name: NRT

Project #: **WO#: 40105127**



Courier:  Fed Ex  UPS  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 NA Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT /Corr: \_\_\_\_\_ Biological Tissue is Frozen:  yes

Temp Blank Present:  yes  no  no

Person examining contents:  
Date: 10/10/14  
Initials: SB

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>5-day SB 10/10/14</u>
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>OH ID = 101014213</u> <u>SB</u> <u>OH ID = 101014214</u> <u>10/10/14</u>
-Includes date/time/ID/Analysis Matrix: <u>S+W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: <u>VOA</u> , coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: [Signature] Date: 10-13-14

November 10, 2014

Ken Mika  
Natural Resource Technology  
234 W. Florida St, 5th Floor  
Milwaukee, WI 53204

RE: Project: 2098 MARINETTE MGP RESIDUAL SA  
Pace Project No.: 40106030

Dear Ken Mika:

Enclosed are the analytical results for sample(s) received by the laboratory on October 28, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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  
Project Manager

Enclosures

cc: Phil Brochocki, Natural Resources Technologies  
NRT Data, Natural Resource Technologies  
Brian Hennings, NATURAL RESOURCE TECHNOLOGY  
Chris Musson, Natural Resources Technologies



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40106030001	102714001	Solid	10/27/14 12:00	10/28/14 07:50
40106030002	102714002	Solid	10/27/14 12:00	10/28/14 07:50
40106030003	102714003	Solid	10/27/14 12:20	10/28/14 07:50
40106030004	102714004	Solid	10/27/14 12:20	10/28/14 07:50
40106030005	102714005	Solid	10/27/14 12:20	10/28/14 07:50
40106030006	102714006	Solid	10/27/14 13:00	10/28/14 07:50
40106030007	102714007	Solid	10/27/14 13:00	10/28/14 07:50
40106030008	102714008	Solid	10/27/14 13:25	10/28/14 07:50
40106030009	102714009	Solid	10/27/14 13:25	10/28/14 07:50
40106030010	102714010	Solid	10/27/14 13:40	10/28/14 07:50
40106030011	102714011	Solid	10/27/14 13:40	10/28/14 07:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40106030001	102714001	EPA 8270 by SIM	ARO	15
		ASTM D2974-87	SDW	1
40106030002	102714002	EPA 8270 by SIM	ARO	15
		ASTM D2974-87	SDW	1
40106030003	102714003	EPA 8270 by SIM	ARO	15
		ASTM D2974-87	SDW	1
40106030004	102714004	EPA 8270 by SIM	ARO	15
		ASTM D2974-87	SDW	1
40106030005	102714005	EPA 8270 by SIM	ARO	15
		ASTM D2974-87	KJB	1
40106030006	102714006	EPA 8270 by SIM	ARO	15
		ASTM D2974-87	KJB	1
40106030007	102714007	EPA 8270 by SIM	ARO	15
		ASTM D2974-87	KJB	1
40106030008	102714008	EPA 8270 by SIM	ARO	15
		ASTM D2974-87	KJB	1
40106030009	102714009	EPA 8270 by SIM	ARO	15
		ASTM D2974-87	KJB	1
40106030010	102714010	EPA 8270 by SIM	ARO	15
		ASTM D2974-87	KJB	1
40106030011	102714011	EPA 8270 by SIM	ARO	15
		ASTM D2974-87	KJB	1

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

**Sample: 102714001**      **Lab ID: 40106030001**      Collected: 10/27/14 12:00      Received: 10/28/14 07:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Acenaphthene	<9.3	ug/kg	18.5	9.3	1	10/28/14 13:27	10/28/14 19:13	83-32-9	
Acenaphthylene	<8.3	ug/kg	18.5	8.3	1	10/28/14 13:27	10/28/14 19:13	208-96-8	
Anthracene	<9.6	ug/kg	18.5	9.6	1	10/28/14 13:27	10/28/14 19:13	120-12-7	
Benzo(a)anthracene	7.7J	ug/kg	18.5	6.4	1	10/28/14 13:27	10/28/14 19:13	56-55-3	
Benzo(a)pyrene	10.5J	ug/kg	18.5	6.6	1	10/28/14 13:27	10/28/14 19:13	50-32-8	
Benzo(b)fluoranthene	10.8J	ug/kg	18.5	9.3	1	10/28/14 13:27	10/28/14 19:13	205-99-2	
Benzo(k)fluoranthene	10.8J	ug/kg	18.5	10.2	1	10/28/14 13:27	10/28/14 19:13	207-08-9	
Chrysene	14.5J	ug/kg	18.5	8.6	1	10/28/14 13:27	10/28/14 19:13	218-01-9	
Fluoranthene	25.6	ug/kg	18.5	9.3	1	10/28/14 13:27	10/28/14 19:13	206-44-0	
Fluorene	<9.3	ug/kg	18.5	9.3	1	10/28/14 13:27	10/28/14 19:13	86-73-7	
Naphthalene	<9.3	ug/kg	18.5	9.3	1	10/28/14 13:27	10/28/14 19:13	91-20-3	
Phenanthrene	12.5J	ug/kg	18.5	9.3	1	10/28/14 13:27	10/28/14 19:13	85-01-8	
Pyrene	20.7	ug/kg	18.5	9.3	1	10/28/14 13:27	10/28/14 19:13	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	56 %		40-130		1	10/28/14 13:27	10/28/14 19:13	321-60-8	
Terphenyl-d14 (S)	52 %		40-130		1	10/28/14 13:27	10/28/14 19:13	1718-51-0	

**Percent Moisture**

Analytical Method: ASTM D2974-87

Percent Moisture	10 %		0.10	0.10	1		10/28/14 18:51		
------------------	------	--	------	------	---	--	----------------	--	--

**Sample: 102714002**      **Lab ID: 40106030002**      Collected: 10/27/14 12:00      Received: 10/28/14 07:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Acenaphthene	580	ug/kg	102	51.1	5	10/28/14 13:27	10/30/14 15:05	83-32-9	
Acenaphthylene	179	ug/kg	102	45.7	5	10/28/14 13:27	10/30/14 15:05	208-96-8	
Anthracene	757	ug/kg	102	53.0	5	10/28/14 13:27	10/30/14 15:05	120-12-7	
Benzo(a)anthracene	678	ug/kg	102	35.4	5	10/28/14 13:27	10/30/14 15:05	56-55-3	
Benzo(a)pyrene	709	ug/kg	102	36.5	5	10/28/14 13:27	10/30/14 15:05	50-32-8	
Benzo(b)fluoranthene	423	ug/kg	102	51.1	5	10/28/14 13:27	10/30/14 15:05	205-99-2	
Benzo(k)fluoranthene	573	ug/kg	102	56.5	5	10/28/14 13:27	10/30/14 15:05	207-08-9	
Chrysene	715	ug/kg	102	47.2	5	10/28/14 13:27	10/30/14 15:05	218-01-9	
Fluoranthene	1390	ug/kg	102	51.1	5	10/28/14 13:27	10/30/14 15:05	206-44-0	
Fluorene	386	ug/kg	102	51.1	5	10/28/14 13:27	10/30/14 15:05	86-73-7	
Naphthalene	467	ug/kg	102	51.1	5	10/28/14 13:27	10/30/14 15:05	91-20-3	
Phenanthrene	1610	ug/kg	102	51.1	5	10/28/14 13:27	10/30/14 15:05	85-01-8	
Pyrene	1190	ug/kg	102	51.1	5	10/28/14 13:27	10/30/14 15:05	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	49 %		40-130		5	10/28/14 13:27	10/30/14 15:05	321-60-8	
Terphenyl-d14 (S)	52 %		40-130		5	10/28/14 13:27	10/30/14 15:05	1718-51-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2098 MARINETTE MGP RESIDUAL SA  
Pace Project No.: 40106030

Sample: 102714002 Lab ID: 40106030002 Collected: 10/27/14 12:00 Received: 10/28/14 07:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	18.4 %		0.10	0.10	1		10/28/14 18:51		

Sample: 102714003 Lab ID: 40106030003 Collected: 10/27/14 12:20 Received: 10/28/14 07:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	12.6J	ug/kg	18.7	9.4	1	10/28/14 13:27	10/28/14 19:30	83-32-9	
Acenaphthylene	<8.4	ug/kg	18.7	8.4	1	10/28/14 13:27	10/28/14 19:30	208-96-8	
Anthracene	21.6	ug/kg	18.7	9.7	1	10/28/14 13:27	10/28/14 19:30	120-12-7	
Benzo(a)anthracene	29.5	ug/kg	18.7	6.5	1	10/28/14 13:27	10/28/14 19:30	56-55-3	
Benzo(a)pyrene	32.1	ug/kg	18.7	6.7	1	10/28/14 13:27	10/28/14 19:30	50-32-8	
Benzo(b)fluoranthene	27.8	ug/kg	18.7	9.4	1	10/28/14 13:27	10/28/14 19:30	205-99-2	
Benzo(k)fluoranthene	30.5	ug/kg	18.7	10.4	1	10/28/14 13:27	10/28/14 19:30	207-08-9	
Chrysene	39.9	ug/kg	18.7	8.7	1	10/28/14 13:27	10/28/14 19:30	218-01-9	
Fluoranthene	75.0	ug/kg	18.7	9.4	1	10/28/14 13:27	10/28/14 19:30	206-44-0	
Fluorene	<9.4	ug/kg	18.7	9.4	1	10/28/14 13:27	10/28/14 19:30	86-73-7	
Naphthalene	41.1	ug/kg	18.7	9.4	1	10/28/14 13:27	10/28/14 19:30	91-20-3	
Phenanthrene	46.8	ug/kg	18.7	9.4	1	10/28/14 13:27	10/28/14 19:30	85-01-8	
Pyrene	62.5	ug/kg	18.7	9.4	1	10/28/14 13:27	10/28/14 19:30	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	57 %		40-130		1	10/28/14 13:27	10/28/14 19:30	321-60-8	
Terphenyl-d14 (S)	56 %		40-130		1	10/28/14 13:27	10/28/14 19:30	1718-51-0	

<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	11.0 %		0.10	0.10	1		10/28/14 18:51		

Sample: 102714004 Lab ID: 40106030004 Collected: 10/27/14 12:20 Received: 10/28/14 07:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	974	ug/kg	402	201	20	10/28/14 13:27	10/29/14 02:56	83-32-9	
Acenaphthylene	186J	ug/kg	402	180	20	10/28/14 13:27	10/29/14 02:56	208-96-8	
Anthracene	843	ug/kg	402	208	20	10/28/14 13:27	10/29/14 02:56	120-12-7	
Benzo(a)anthracene	626	ug/kg	402	139	20	10/28/14 13:27	10/29/14 02:56	56-55-3	
Benzo(a)pyrene	588	ug/kg	402	144	20	10/28/14 13:27	10/29/14 02:56	50-32-8	
Benzo(b)fluoranthene	377J	ug/kg	402	201	20	10/28/14 13:27	10/29/14 02:56	205-99-2	
Benzo(k)fluoranthene	470	ug/kg	402	222	20	10/28/14 13:27	10/29/14 02:56	207-08-9	
Chrysene	676	ug/kg	402	186	20	10/28/14 13:27	10/29/14 02:56	218-01-9	

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### ANALYTICAL RESULTS

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

**Sample: 102714004**      **Lab ID: 40106030004**      Collected: 10/27/14 12:20      Received: 10/28/14 07:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Fluoranthene	1450	ug/kg	402	201	20	10/28/14 13:27	10/29/14 02:56	206-44-0	
Fluorene	524	ug/kg	402	201	20	10/28/14 13:27	10/29/14 02:56	86-73-7	
Naphthalene	5230	ug/kg	402	201	20	10/28/14 13:27	10/29/14 02:56	91-20-3	
Phenanthrene	2030	ug/kg	402	201	20	10/28/14 13:27	10/29/14 02:56	85-01-8	
Pyrene	1260	ug/kg	402	201	20	10/28/14 13:27	10/29/14 02:56	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	49	%	40-130		20	10/28/14 13:27	10/29/14 02:56	321-60-8	
Terphenyl-d14 (S)	52	%	40-130		20	10/28/14 13:27	10/29/14 02:56	1718-51-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	17.0	%	0.10	0.10	1		10/28/14 18:51		

**Sample: 102714005**      **Lab ID: 40106030005**      Collected: 10/27/14 12:20      Received: 10/28/14 07:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Acenaphthene	302	ug/kg	96.0	48.0	5	10/28/14 13:27	10/30/14 15:22	83-32-9	
Acenaphthylene	53.0J	ug/kg	96.0	42.9	5	10/28/14 13:27	10/30/14 15:22	208-96-8	
Anthracene	269	ug/kg	96.0	49.8	5	10/28/14 13:27	10/30/14 15:22	120-12-7	
Benzo(a)anthracene	190	ug/kg	96.0	33.3	5	10/28/14 13:27	10/30/14 15:22	56-55-3	
Benzo(a)pyrene	197	ug/kg	96.0	34.3	5	10/28/14 13:27	10/30/14 15:22	50-32-8	
Benzo(b)fluoranthene	119	ug/kg	96.0	48.0	5	10/28/14 13:27	10/30/14 15:22	205-99-2	
Benzo(k)fluoranthene	154	ug/kg	96.0	53.1	5	10/28/14 13:27	10/30/14 15:22	207-08-9	
Chrysene	203	ug/kg	96.0	44.4	5	10/28/14 13:27	10/30/14 15:22	218-01-9	
Fluoranthene	429	ug/kg	96.0	48.0	5	10/28/14 13:27	10/30/14 15:22	206-44-0	
Fluorene	153	ug/kg	96.0	48.0	5	10/28/14 13:27	10/30/14 15:22	86-73-7	
Naphthalene	1310	ug/kg	96.0	48.0	5	10/28/14 13:27	10/30/14 15:22	91-20-3	
Phenanthrene	593	ug/kg	96.0	48.0	5	10/28/14 13:27	10/30/14 15:22	85-01-8	
Pyrene	360	ug/kg	96.0	48.0	5	10/28/14 13:27	10/30/14 15:22	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	52	%	40-130		5	10/28/14 13:27	10/30/14 15:22	321-60-8	
Terphenyl-d14 (S)	48	%	40-130		5	10/28/14 13:27	10/30/14 15:22	1718-51-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	13.2	%	0.10	0.10	1		11/08/14 08:17		

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### ANALYTICAL RESULTS

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

**Sample: 102714006**      **Lab ID: 40106030006**      Collected: 10/27/14 13:00      Received: 10/28/14 07:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Acenaphthene	22.4	ug/kg	19.1	9.5	1	10/28/14 13:27	10/28/14 20:04	83-32-9	
Acenaphthylene	23.1	ug/kg	19.1	8.5	1	10/28/14 13:27	10/28/14 20:04	208-96-8	
Anthracene	52.1	ug/kg	19.1	9.9	1	10/28/14 13:27	10/28/14 20:04	120-12-7	
Benzo(a)anthracene	70.0	ug/kg	19.1	6.6	1	10/28/14 13:27	10/28/14 20:04	56-55-3	
Benzo(a)pyrene	72.4	ug/kg	19.1	6.8	1	10/28/14 13:27	10/28/14 20:04	50-32-8	
Benzo(b)fluoranthene	49.0	ug/kg	19.1	9.5	1	10/28/14 13:27	10/28/14 20:04	205-99-2	
Benzo(k)fluoranthene	59.2	ug/kg	19.1	10.6	1	10/28/14 13:27	10/28/14 20:04	207-08-9	
Chrysene	76.8	ug/kg	19.1	8.8	1	10/28/14 13:27	10/28/14 20:04	218-01-9	
Fluoranthene	156	ug/kg	19.1	9.5	1	10/28/14 13:27	10/28/14 20:04	206-44-0	
Fluorene	13.2J	ug/kg	19.1	9.5	1	10/28/14 13:27	10/28/14 20:04	86-73-7	
Naphthalene	17.3J	ug/kg	19.1	9.5	1	10/28/14 13:27	10/28/14 20:04	91-20-3	
Phenanthrene	110	ug/kg	19.1	9.5	1	10/28/14 13:27	10/28/14 20:04	85-01-8	
Pyrene	136	ug/kg	19.1	9.5	1	10/28/14 13:27	10/28/14 20:04	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	56 %		40-130		1	10/28/14 13:27	10/28/14 20:04	321-60-8	
Terphenyl-d14 (S)	56 %		40-130		1	10/28/14 13:27	10/28/14 20:04	1718-51-0	

**Percent Moisture**

Analytical Method: ASTM D2974-87

Percent Moisture	12.6 %		0.10	0.10	1		11/08/14 08:17		
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**Sample: 102714007**      **Lab ID: 40106030007**      Collected: 10/27/14 13:00      Received: 10/28/14 07:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Acenaphthene	2180	ug/kg	482	241	20	10/29/14 08:14	10/29/14 12:22	83-32-9	
Acenaphthylene	487	ug/kg	482	216	20	10/29/14 08:14	10/29/14 12:22	208-96-8	
Anthracene	2480	ug/kg	482	250	20	10/29/14 08:14	10/29/14 12:22	120-12-7	
Benzo(a)anthracene	1530	ug/kg	482	167	20	10/29/14 08:14	10/29/14 12:22	56-55-3	
Benzo(a)pyrene	1570	ug/kg	482	172	20	10/29/14 08:14	10/29/14 12:22	50-32-8	
Benzo(b)fluoranthene	898	ug/kg	482	241	20	10/29/14 08:14	10/29/14 12:22	205-99-2	
Benzo(k)fluoranthene	1310	ug/kg	482	267	20	10/29/14 08:14	10/29/14 12:22	207-08-9	
Chrysene	1690	ug/kg	482	223	20	10/29/14 08:14	10/29/14 12:22	218-01-9	
Fluoranthene	3560	ug/kg	482	241	20	10/29/14 08:14	10/29/14 12:22	206-44-0	
Fluorene	1340	ug/kg	482	241	20	10/29/14 08:14	10/29/14 12:22	86-73-7	
Naphthalene	6830	ug/kg	482	241	20	10/29/14 08:14	10/29/14 12:22	91-20-3	
Phenanthrene	5100	ug/kg	482	241	20	10/29/14 08:14	10/29/14 12:22	85-01-8	
Pyrene	2880	ug/kg	482	241	20	10/29/14 08:14	10/29/14 12:22	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	41 %		40-130		20	10/29/14 08:14	10/29/14 12:22	321-60-8	
Terphenyl-d14 (S)	42 %		40-130		20	10/29/14 08:14	10/29/14 12:22	1718-51-0	

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### ANALYTICAL RESULTS

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

**Sample: 102714007**      **Lab ID: 40106030007**      Collected: 10/27/14 13:00      Received: 10/28/14 07:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>30.8</b>	%	0.10	0.10	1		11/08/14 08:17		

**Sample: 102714008**      **Lab ID: 40106030008**      Collected: 10/27/14 13:25      Received: 10/28/14 07:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Acenaphthene	<b>12.0J</b>	ug/kg	21.4	10.7	1	10/29/14 08:14	10/29/14 16:59	83-32-9	
Acenaphthylene	<b>&lt;9.6</b>	ug/kg	21.4	9.6	1	10/29/14 08:14	10/29/14 16:59	208-96-8	
Anthracene	<b>19.5J</b>	ug/kg	21.4	11.1	1	10/29/14 08:14	10/29/14 16:59	120-12-7	
Benzo(a)anthracene	<b>55.2</b>	ug/kg	21.4	7.4	1	10/29/14 08:14	10/29/14 16:59	56-55-3	
Benzo(a)pyrene	<b>64.6</b>	ug/kg	21.4	7.6	1	10/29/14 08:14	10/29/14 16:59	50-32-8	
Benzo(b)fluoranthene	<b>57.1</b>	ug/kg	21.4	10.7	1	10/29/14 08:14	10/29/14 16:59	205-99-2	
Benzo(k)fluoranthene	<b>66.4</b>	ug/kg	21.4	11.8	1	10/29/14 08:14	10/29/14 16:59	207-08-9	
Chrysene	<b>78.3</b>	ug/kg	21.4	9.9	1	10/29/14 08:14	10/29/14 16:59	218-01-9	
Fluoranthene	<b>152</b>	ug/kg	21.4	10.7	1	10/29/14 08:14	10/29/14 16:59	206-44-0	
Fluorene	<b>&lt;10.7</b>	ug/kg	21.4	10.7	1	10/29/14 08:14	10/29/14 16:59	86-73-7	
Naphthalene	<b>23.6</b>	ug/kg	21.4	10.7	1	10/29/14 08:14	10/29/14 16:59	91-20-3	
Phenanthrene	<b>79.6</b>	ug/kg	21.4	10.7	1	10/29/14 08:14	10/29/14 16:59	85-01-8	
Pyrene	<b>120</b>	ug/kg	21.4	10.7	1	10/29/14 08:14	10/29/14 16:59	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	45	%	40-130		1	10/29/14 08:14	10/29/14 16:59	321-60-8	
Terphenyl-d14 (S)	41	%	40-130		1	10/29/14 08:14	10/29/14 16:59	1718-51-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>22.0</b>	%	0.10	0.10	1		11/08/14 08:17		

**Sample: 102714009**      **Lab ID: 40106030009**      Collected: 10/27/14 13:25      Received: 10/28/14 07:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Acenaphthene	<b>3630</b>	ug/kg	441	221	20	10/29/14 08:14	10/29/14 11:13	83-32-9	M6
Acenaphthylene	<b>894</b>	ug/kg	441	197	20	10/29/14 08:14	10/29/14 11:13	208-96-8	M6
Anthracene	<b>3690</b>	ug/kg	441	229	20	10/29/14 08:14	10/29/14 11:13	120-12-7	M6
Benzo(a)anthracene	<b>2820</b>	ug/kg	441	153	20	10/29/14 08:14	10/29/14 11:13	56-55-3	M6
Benzo(a)pyrene	<b>2850</b>	ug/kg	441	158	20	10/29/14 08:14	10/29/14 11:13	50-32-8	M6
Benzo(b)fluoranthene	<b>1790</b>	ug/kg	441	221	20	10/29/14 08:14	10/29/14 11:13	205-99-2	M6
Benzo(k)fluoranthene	<b>2290</b>	ug/kg	441	244	20	10/29/14 08:14	10/29/14 11:13	207-08-9	M6
Chrysene	<b>2920</b>	ug/kg	441	204	20	10/29/14 08:14	10/29/14 11:13	218-01-9	M6

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### ANALYTICAL RESULTS

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

**Sample: 102714009**      **Lab ID: 40106030009**      Collected: 10/27/14 13:25      Received: 10/28/14 07:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Fluoranthene	<b>6860</b>	ug/kg	441	221	20	10/29/14 08:14	10/29/14 11:13	206-44-0	M6
Fluorene	<b>2340</b>	ug/kg	441	221	20	10/29/14 08:14	10/29/14 11:13	86-73-7	M6
Naphthalene	<b>13600</b>	ug/kg	441	221	20	10/29/14 08:14	10/29/14 11:13	91-20-3	M6
Phenanthrene	<b>9220</b>	ug/kg	441	221	20	10/29/14 08:14	10/29/14 11:13	85-01-8	M6
Pyrene	<b>5510</b>	ug/kg	441	221	20	10/29/14 08:14	10/29/14 11:13	129-00-0	M6
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	58 %		40-130		20	10/29/14 08:14	10/29/14 11:13	321-60-8	
Terphenyl-d14 (S)	55 %		40-130		20	10/29/14 08:14	10/29/14 11:13	1718-51-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>24.4</b>	%	0.10	0.10	1		11/08/14 08:17		

**Sample: 102714010**      **Lab ID: 40106030010**      Collected: 10/27/14 13:40      Received: 10/28/14 07:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Acenaphthene	<b>&lt;9.6</b>	ug/kg	19.3	9.6	1	10/30/14 08:27	10/30/14 18:20	83-32-9	
Acenaphthylene	<b>&lt;8.6</b>	ug/kg	19.3	8.6	1	10/30/14 08:27	10/30/14 18:20	208-96-8	
Anthracene	<b>&lt;10</b>	ug/kg	19.3	10	1	10/30/14 08:27	10/30/14 18:20	120-12-7	
Benzo(a)anthracene	<b>6.7J</b>	ug/kg	19.3	6.7	1	10/30/14 08:27	10/30/14 18:20	56-55-3	
Benzo(a)pyrene	<b>9.9J</b>	ug/kg	19.3	6.9	1	10/30/14 08:27	10/30/14 18:20	50-32-8	
Benzo(b)fluoranthene	<b>&lt;9.6</b>	ug/kg	19.3	9.6	1	10/30/14 08:27	10/30/14 18:20	205-99-2	
Benzo(k)fluoranthene	<b>&lt;10.7</b>	ug/kg	19.3	10.7	1	10/30/14 08:27	10/30/14 18:20	207-08-9	
Chrysene	<b>11.9J</b>	ug/kg	19.3	8.9	1	10/30/14 08:27	10/30/14 18:20	218-01-9	
Fluoranthene	<b>18.1J</b>	ug/kg	19.3	9.6	1	10/30/14 08:27	10/30/14 18:20	206-44-0	
Fluorene	<b>&lt;9.6</b>	ug/kg	19.3	9.6	1	10/30/14 08:27	10/30/14 18:20	86-73-7	
Naphthalene	<b>&lt;9.6</b>	ug/kg	19.3	9.6	1	10/30/14 08:27	10/30/14 18:20	91-20-3	
Phenanthrene	<b>&lt;9.6</b>	ug/kg	19.3	9.6	1	10/30/14 08:27	10/30/14 18:20	85-01-8	
Pyrene	<b>15.0J</b>	ug/kg	19.3	9.6	1	10/30/14 08:27	10/30/14 18:20	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	54 %		40-130		1	10/30/14 08:27	10/30/14 18:20	321-60-8	
Terphenyl-d14 (S)	49 %		40-130		1	10/30/14 08:27	10/30/14 18:20	1718-51-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>13.4</b>	%	0.10	0.10	1		11/08/14 08:17		

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## ANALYTICAL RESULTS

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

**Sample: 102714011**      **Lab ID: 40106030011**      Collected: 10/27/14 13:40      Received: 10/28/14 07:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Acenaphthene	<9.7	ug/kg	19.4	9.7	1	10/30/14 08:27	10/30/14 18:37	83-32-9	
Acenaphthylene	<8.7	ug/kg	19.4	8.7	1	10/30/14 08:27	10/30/14 18:37	208-96-8	
Anthracene	<10.0	ug/kg	19.4	10.0	1	10/30/14 08:27	10/30/14 18:37	120-12-7	
Benzo(a)anthracene	<6.7	ug/kg	19.4	6.7	1	10/30/14 08:27	10/30/14 18:37	56-55-3	
Benzo(a)pyrene	<6.9	ug/kg	19.4	6.9	1	10/30/14 08:27	10/30/14 18:37	50-32-8	
Benzo(b)fluoranthene	<9.7	ug/kg	19.4	9.7	1	10/30/14 08:27	10/30/14 18:37	205-99-2	
Benzo(k)fluoranthene	<10.7	ug/kg	19.4	10.7	1	10/30/14 08:27	10/30/14 18:37	207-08-9	
Chrysene	<8.9	ug/kg	19.4	8.9	1	10/30/14 08:27	10/30/14 18:37	218-01-9	
Fluoranthene	<9.7	ug/kg	19.4	9.7	1	10/30/14 08:27	10/30/14 18:37	206-44-0	
Fluorene	<9.7	ug/kg	19.4	9.7	1	10/30/14 08:27	10/30/14 18:37	86-73-7	
Naphthalene	<9.7	ug/kg	19.4	9.7	1	10/30/14 08:27	10/30/14 18:37	91-20-3	
Phenanthrene	<9.7	ug/kg	19.4	9.7	1	10/30/14 08:27	10/30/14 18:37	85-01-8	
Pyrene	<9.7	ug/kg	19.4	9.7	1	10/30/14 08:27	10/30/14 18:37	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	63	%	40-130		1	10/30/14 08:27	10/30/14 18:37	321-60-8	
Terphenyl-d14 (S)	58	%	40-130		1	10/30/14 08:27	10/30/14 18:37	1718-51-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	13.9	%	0.10	0.10	1		11/08/14 08:17		

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

QC Batch: OEXT/24889 Analysis Method: EPA 8270 by SIM  
 QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM  
 Associated Lab Samples: 40106030001, 40106030002, 40106030003, 40106030004, 40106030005, 40106030006

METHOD BLANK: 1071796 Matrix: Solid  
 Associated Lab Samples: 40106030001, 40106030002, 40106030003, 40106030004, 40106030005, 40106030006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<8.3	16.7	10/28/14 16:39	
Acenaphthylene	ug/kg	<7.5	16.7	10/28/14 16:39	
Anthracene	ug/kg	<8.6	16.7	10/28/14 16:39	
Benzo(a)anthracene	ug/kg	<5.8	16.7	10/28/14 16:39	
Benzo(a)pyrene	ug/kg	<6.0	16.7	10/28/14 16:39	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	10/28/14 16:39	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	10/28/14 16:39	
Chrysene	ug/kg	<7.7	16.7	10/28/14 16:39	
Fluoranthene	ug/kg	<8.3	16.7	10/28/14 16:39	
Fluorene	ug/kg	<8.3	16.7	10/28/14 16:39	
Naphthalene	ug/kg	<8.3	16.7	10/28/14 16:39	
Phenanthrene	ug/kg	<8.3	16.7	10/28/14 16:39	
Pyrene	ug/kg	<8.3	16.7	10/28/14 16:39	
2-Fluorobiphenyl (S)	%	75	40-130	10/28/14 16:39	
Terphenyl-d14 (S)	%	77	40-130	10/28/14 16:39	

LABORATORY CONTROL SAMPLE: 1071797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	333	238	71	55-130	
Acenaphthylene	ug/kg	333	248	75	55-130	
Anthracene	ug/kg	333	274	82	66-130	
Benzo(a)anthracene	ug/kg	333	230	69	55-130	
Benzo(a)pyrene	ug/kg	333	252	76	56-130	
Benzo(b)fluoranthene	ug/kg	333	212	63	53-130	
Benzo(k)fluoranthene	ug/kg	333	248	74	52-130	
Chrysene	ug/kg	333	270	81	58-130	
Fluoranthene	ug/kg	333	243	73	62-130	
Fluorene	ug/kg	333	244	73	58-130	
Naphthalene	ug/kg	333	222	67	41-130	
Phenanthrene	ug/kg	333	236	71	60-130	
Pyrene	ug/kg	333	251	75	51-130	
2-Fluorobiphenyl (S)	%			66	40-130	
Terphenyl-d14 (S)	%			66	40-130	

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### QUALITY CONTROL DATA

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

Parameter	Units	40106027002		1071798		1071799		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Acenaphthene	ug/kg	<11.1	444	444	332	332	74	74	31-130	0	35		
Acenaphthylene	ug/kg	<9.9	444	444	351	350	79	79	32-130	0	25		
Anthracene	ug/kg	<11.5	444	444	382	379	86	85	39-131	1	38		
Benzo(a)anthracene	ug/kg	<7.7	444	444	326	325	73	73	29-130	0	30		
Benzo(a)pyrene	ug/kg	<7.9	444	444	338	329	76	74	35-130	3	33		
Benzo(b)fluoranthene	ug/kg	<11.1	444	444	288	298	65	67	21-142	3	44		
Benzo(k)fluoranthene	ug/kg	<12.3	444	444	343	337	77	75	35-130	2	37		
Chrysene	ug/kg	<10.3	444	444	370	372	83	83	37-130	0	38		
Fluoranthene	ug/kg	<11.1	444	444	338	340	76	76	29-137	1	50		
Fluorene	ug/kg	<11.1	444	444	342	342	77	77	32-130	0	32		
Naphthalene	ug/kg	11.9J	444	444	323	311	70	67	24-130	4	40		
Phenanthrene	ug/kg	<11.1	444	444	332	332	74	74	27-135	0	46		
Pyrene	ug/kg	<11.1	444	444	353	353	79	79	24-130	0	49		
2-Fluorobiphenyl (S)	%						67	67	40-130				
Terphenyl-d14 (S)	%						66	66	40-130				

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### QUALITY CONTROL DATA

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

QC Batch: OEXT/24895 Analysis Method: EPA 8270 by SIM  
 QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM  
 Associated Lab Samples: 40106030007, 40106030008, 40106030009

METHOD BLANK: 1071961 Matrix: Solid

Associated Lab Samples: 40106030007, 40106030008, 40106030009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<8.3	16.7	10/29/14 10:37	
Acenaphthylene	ug/kg	<7.5	16.7	10/29/14 10:37	
Anthracene	ug/kg	<8.6	16.7	10/29/14 10:37	
Benzo(a)anthracene	ug/kg	<5.8	16.7	10/29/14 10:37	
Benzo(a)pyrene	ug/kg	<6.0	16.7	10/29/14 10:37	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	10/29/14 10:37	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	10/29/14 10:37	
Chrysene	ug/kg	<7.7	16.7	10/29/14 10:37	
Fluoranthene	ug/kg	<8.3	16.7	10/29/14 10:37	
Fluorene	ug/kg	<8.3	16.7	10/29/14 10:37	
Naphthalene	ug/kg	<8.3	16.7	10/29/14 10:37	
Phenanthrene	ug/kg	<8.3	16.7	10/29/14 10:37	
Pyrene	ug/kg	<8.3	16.7	10/29/14 10:37	
2-Fluorobiphenyl (S)	%	71	40-130	10/29/14 10:37	
Terphenyl-d14 (S)	%	70	40-130	10/29/14 10:37	

LABORATORY CONTROL SAMPLE: 1071962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	333	320	96	55-130	
Acenaphthylene	ug/kg	333	332	100	55-130	
Anthracene	ug/kg	333	377	113	66-130	
Benzo(a)anthracene	ug/kg	333	330	99	55-130	
Benzo(a)pyrene	ug/kg	333	363	109	56-130	
Benzo(b)fluoranthene	ug/kg	333	320	96	53-130	
Benzo(k)fluoranthene	ug/kg	333	338	102	52-130	
Chrysene	ug/kg	333	382	115	58-130	
Fluoranthene	ug/kg	333	342	103	62-130	
Fluorene	ug/kg	333	332	100	58-130	
Naphthalene	ug/kg	333	298	89	41-130	
Phenanthrene	ug/kg	333	322	97	60-130	
Pyrene	ug/kg	333	340	102	51-130	
2-Fluorobiphenyl (S)	%			86	40-130	
Terphenyl-d14 (S)	%			90	40-130	

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### QUALITY CONTROL DATA

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1071963		1071964		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40106030009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Acenaphthene	ug/kg	3630	441	441	2640	3470	-225	-37	31-130	27	35	M6	
Acenaphthylene	ug/kg	894	441	441	1010	1160	25	61	32-130	15	25	M6	
Anthracene	ug/kg	3690	441	441	2630	3240	-239	-101	39-131	21	38	M6	
Benzo(a)anthracene	ug/kg	2820	441	441	2190	2550	-143	-62	29-130	15	30	M6	
Benzo(a)pyrene	ug/kg	2850	441	441	2230	2510	-141	-77	35-130	12	33	M6	
Benzo(b)fluoranthene	ug/kg	1790	441	441	1450	1880	-79	19	21-142	26	44	M6	
Benzo(k)fluoranthene	ug/kg	2290	441	441	1790	1830	-113	-105	35-130	2	37	M6	
Chrysene	ug/kg	2920	441	441	2190	2540	-167	-88	37-130	15	38	M6	
Fluoranthene	ug/kg	6860	441	441	4590	5700	-516	-264	29-137	22	50	M6	
Fluorene	ug/kg	2340	441	441	1770	2360	-128	4	32-130	28	32	M6	
Naphthalene	ug/kg	13600	441	441	9560	12200	-910	-314	24-130	24	40	M6	
Phenanthrene	ug/kg	9220	441	441	5840	7690	-766	-348	27-135	27	46	M6	
Pyrene	ug/kg	5510	441	441	3790	4730	-389	-175	24-130	22	49	M6	
2-Fluorobiphenyl (S)	%						46	53	40-130				
Terphenyl-d14 (S)	%						47	58	40-130				

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### QUALITY CONTROL DATA

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

QC Batch: OEXT/24913

Analysis Method: EPA 8270 by SIM

QC Batch Method: EPA 3546

Analysis Description: 8270/3546 MSSV PAH by SIM

Associated Lab Samples: 40106030010, 40106030011

METHOD BLANK: 1072678

Matrix: Solid

Associated Lab Samples: 40106030010, 40106030011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<8.3	16.7	10/30/14 11:22	
Acenaphthylene	ug/kg	<7.5	16.7	10/30/14 11:22	
Anthracene	ug/kg	<8.6	16.7	10/30/14 11:22	
Benzo(a)anthracene	ug/kg	<5.8	16.7	10/30/14 11:22	
Benzo(a)pyrene	ug/kg	<6.0	16.7	10/30/14 11:22	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	10/30/14 11:22	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	10/30/14 11:22	
Chrysene	ug/kg	<7.7	16.7	10/30/14 11:22	
Fluoranthene	ug/kg	<8.3	16.7	10/30/14 11:22	
Fluorene	ug/kg	<8.3	16.7	10/30/14 11:22	
Naphthalene	ug/kg	<8.3	16.7	10/30/14 11:22	
Phenanthrene	ug/kg	<8.3	16.7	10/30/14 11:22	
Pyrene	ug/kg	<8.3	16.7	10/30/14 11:22	
2-Fluorobiphenyl (S)	%	68	40-130	10/30/14 11:22	
Terphenyl-d14 (S)	%	70	40-130	10/30/14 11:22	

LABORATORY CONTROL SAMPLE: 1072679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	333	238	71	55-130	
Acenaphthylene	ug/kg	333	247	74	55-130	
Anthracene	ug/kg	333	281	84	66-130	
Benzo(a)anthracene	ug/kg	333	246	74	55-130	
Benzo(a)pyrene	ug/kg	333	264	79	56-130	
Benzo(b)fluoranthene	ug/kg	333	227	68	53-130	
Benzo(k)fluoranthene	ug/kg	333	247	74	52-130	
Chrysene	ug/kg	333	278	83	58-130	
Fluoranthene	ug/kg	333	251	75	62-130	
Fluorene	ug/kg	333	247	74	58-130	
Naphthalene	ug/kg	333	220	66	41-130	
Phenanthrene	ug/kg	333	237	71	60-130	
Pyrene	ug/kg	333	251	75	51-130	
2-Fluorobiphenyl (S)	%			65	40-130	
Terphenyl-d14 (S)	%			66	40-130	

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### QUALITY CONTROL DATA

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1072680		1072681		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40106080002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Acenaphthene	ug/kg	<907	362	362	<907	<907	86	101	31-130		35	
Acenaphthylene	ug/kg	<812	362	362	<812	<812	77	89	32-130		25	
Anthracene	ug/kg	<941	362	362	<941	<941	57	87	39-131		38	
Benzo(a)anthracene	ug/kg	<629	362	362	<629	<629	47	55	29-130		30	
Benzo(a)pyrene	ug/kg	<649	362	362	<649	<649	43	50	35-130		33	
Benzo(b)fluoranthene	ug/kg	<907	362	362	<907	<907	0	46	21-142		44	M6
Benzo(k)fluoranthene	ug/kg	<1000	362	362	<1000	<1000	0	84	35-130		37	M6
Chrysene	ug/kg	<839	362	362	<839	<839	99	110	37-130		38	
Fluoranthene	ug/kg	<907	362	362	<907	<907	0	0	29-137		50	M6
Fluorene	ug/kg	<907	362	362	<907	<907	83	94	32-130		32	
Naphthalene	ug/kg	47200	362	362	46600	46900	-167	-86	24-130	1	40	M6
Phenanthrene	ug/kg	<907	362	362	<907	<907	0	120	27-135		46	M6
Pyrene	ug/kg	<907	362	362	<907	<907	59	70	24-130		49	
2-Fluorobiphenyl (S)	%						0	0	40-130			S4
Terphenyl-d14 (S)	%						0	0	40-130			S4

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### QUALITY CONTROL DATA

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

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QC Batch: PMST/10545 Analysis Method: ASTM D2974-87  
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture  
 Associated Lab Samples: 40106030001, 40106030002, 40106030003, 40106030004

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SAMPLE DUPLICATE: 1071928

Parameter	Units	40106051008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.6	8.9	3	10	

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### QUALITY CONTROL DATA

Project: 2098 MARINETTE MGP RESIDUAL SA  
Pace Project No.: 40106030

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QC Batch:	PMST/10583	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40106030005, 40106030006, 40106030007, 40106030008, 40106030009, 40106030010, 40106030011		

---

SAMPLE DUPLICATE: 1079322

Parameter	Units	40106017001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	24.2	22.4	8	10	

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## QUALIFIERS

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2098 MARINETTE MGP RESIDUAL SA

Pace Project No.: 40106030

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40106030001	102714001	EPA 3546	OEXT/24889	EPA 8270 by SIM	MSSV/7361
40106030002	102714002	EPA 3546	OEXT/24889	EPA 8270 by SIM	MSSV/7361
40106030003	102714003	EPA 3546	OEXT/24889	EPA 8270 by SIM	MSSV/7361
40106030004	102714004	EPA 3546	OEXT/24889	EPA 8270 by SIM	MSSV/7361
40106030005	102714005	EPA 3546	OEXT/24889	EPA 8270 by SIM	MSSV/7361
40106030006	102714006	EPA 3546	OEXT/24889	EPA 8270 by SIM	MSSV/7361
40106030007	102714007	EPA 3546	OEXT/24895	EPA 8270 by SIM	MSSV/7362
40106030008	102714008	EPA 3546	OEXT/24895	EPA 8270 by SIM	MSSV/7362
40106030009	102714009	EPA 3546	OEXT/24895	EPA 8270 by SIM	MSSV/7362
40106030010	102714010	EPA 3546	OEXT/24913	EPA 8270 by SIM	MSSV/7365
40106030011	102714011	EPA 3546	OEXT/24913	EPA 8270 by SIM	MSSV/7365
40106030001	102714001	ASTM D2974-87	PMST/10545		
40106030002	102714002	ASTM D2974-87	PMST/10545		
40106030003	102714003	ASTM D2974-87	PMST/10545		
40106030004	102714004	ASTM D2974-87	PMST/10545		
40106030005	102714005	ASTM D2974-87	PMST/10583		
40106030006	102714006	ASTM D2974-87	PMST/10583		
40106030007	102714007	ASTM D2974-87	PMST/10583		
40106030008	102714008	ASTM D2974-87	PMST/10583		
40106030009	102714009	ASTM D2974-87	PMST/10583		
40106030010	102714010	ASTM D2974-87	PMST/10583		
40106030011	102714011	ASTM D2974-87	PMST/10583		

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(Please Print Clearly)

Company Name: **NRT**  
 Branch/Location: **Milwaukee, WI**  
 Project Contact: **Jennifer Hagan**  
 Phone:  
 Project Number: **2098**  
 Project Name: **Marquette M&P Residual Soil**  
 Project State: **Wisconsin**  
 Sampled By (Print): **Steve Wiskes**  
 Sampled By (Sign): *Steve Wiskes*  
 PO #: **2098** Regulatory Program:



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

4006030

**Quote #:**  
**Mail To Contact:**  
**Mail To Company:**  
**Mail To Address:**  
**Invoice To Contact:** *Naren Prasad*  
**Invoice To Company:** *IBS*  
**Invoice To Address:**  
**Invoice To Phone:**  
**CLIENT COMMENTS**  
**LAB COMMENTS (Lab Use Only)**  
**Profile #**  
*1-402ag A*  
*ms/msd*  
*SGW 10/27/14*

**CHAIN OF CUSTODY**

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

Y/N	Pick Letter	Matrix	DATE	TIME	MATRIX	Analyses Requested
		Soil	10/27/14	1200	Soil	X PAHS
		Soil	10/27/14	1200	Soil	X
		Soil	10/27/14	1220	Soil	X
		Soil	10/27/14	1220	Soil	X
		Soil	10/27/14	1220	Soil	X
		Soil	10/27/14	1300	Soil	X
		Soil	10/27/14	1300	Soil	X
		Soil	10/27/14	1325	Soil	X
		Soil	10/27/14	1325	Soil	X
		Soil	10/27/14	1340	Soil	X
		Soil	10/27/14	1340	Soil	X

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PAGE LAB #	CLIENT FIELD ID	COLLECTION DATE	TIME	MATRIX
001	102714001	10/27/14	1200	Soil
002	102714002	10/27/14	1200	Soil
003	102714003	10/27/14	1220	Soil
004	102714004	10/27/14	1220	Soil
005	102714005	10/27/14	1220	Soil
006	102714006	10/27/14	1300	Soil
007	102714007	10/27/14	1300	Soil
008	102714008	10/27/14	1325	Soil
009	102714009	10/27/14	1325	Soil
010	102714010	10/27/14	1340	Soil
011	102714011	10/27/14	1340	Soil

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_

Transmit Prelim Rush Results by (complete what you want):

Relinquished By: <i>Steve Wiskes</i>	Date/Time: <i>10/28/14 0750</i>	Received By: <i>Naren Prasad</i>	Date/Time: <i>10/28/14 0750</i>
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. **40100030**  
 Receipt Temp = *ROT* °C  
 Sample Receipt pH **OK / Adjusted**  
 Cooler Custody Seal **Present / Not Present**  
 Intact / Not Intact

Samples on HOLD are subject to special pricing and release of liability

Sample Condition Upon Receipt

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



Project #: **WO# : 40106030**

Client Name: NRT



Courier:  Fed Ex  UPS  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 N/A Type of Ice:  Wet  Blue Dry  None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: \_\_\_\_\_ /Corr: \_\_\_\_\_ Biological Tissue is Frozen:  yes

Temp Blank Present:  yes  no  no

Person examining contents:

Date: 10-28-14

Initials: SW

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>003 - collect time on sample 1300.</u>
-Includes date/time/ID/Analysis Matrix:	<u>S</u>	<u>OK to report Post Hold per B. Hoffmeyer 10/28/14</u>
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lab Std #/ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: [Signature]

Date: 10-28-14

November 12, 2014

Brian Hennings  
NATURAL RESOURCE TECHNOLOGY  
234 W. Florida St, 5th Floor  
Milwaukee, WI 53204

RE: Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

Dear Brian Hennings:

Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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  
Project Manager

Enclosures

cc: NRT Data, Natural Resource Technologies



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

---

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40106123001	102714001	Water	10/27/14 17:29	10/29/14 10:20
40106123002	102714002	Water	10/27/14 18:13	10/29/14 10:20
40106123003	102814003	Water	10/28/14 08:07	10/29/14 10:20
40106123004	102814004	Water	10/28/14 08:46	10/29/14 10:20
40106123005	102814005	Water	10/28/14 08:51	10/29/14 10:20
40106123006	102814006	Water	10/28/14 09:35	10/29/14 10:20
40106123007	102814007	Water	10/28/14 10:15	10/29/14 10:20
40106123008	102814008	Water	10/28/14 11:28	10/29/14 10:20
40106123009	102814009	Water	10/28/14 12:20	10/29/14 10:20
40106123010	102814010	Water	10/28/14 12:47	10/29/14 10:20
40106123011	102814011	Water	10/28/14 13:31	10/29/14 10:20
40106123012	102814012	Water	10/28/14 14:14	10/29/14 10:20
40106123013	102814013	Water	10/28/14 14:39	10/29/14 10:20
40106123014	102814014	Water	10/28/14 14:44	10/29/14 10:20
40106123015	102814015	Water	10/28/14 15:13	10/29/14 10:20
40106123016	102814016	Water	10/28/14 16:03	10/29/14 10:20
40106123017	102814017	Water	10/28/14 16:39	10/29/14 10:20
40106123018	102814018	Water	10/28/14 17:15	10/29/14 10:20
40106123019	102814019	Water	10/28/14 17:51	10/29/14 10:20
40106123020	102814020	Water	10/28/14 18:26	10/29/14 10:20
40106123021	102814021	Water	10/28/14 00:00	10/29/14 10:20

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### SAMPLE ANALYTE COUNT

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40106123001	102714001	EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40106123002	102714002	EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40106123003	102814003	EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40106123004	102814004	EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40106123005	102814005	EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40106123006	102814006	EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G

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### SAMPLE ANALYTE COUNT

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40106123007	102814007	EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
40106123008	102814008	EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	MRS	1	PASI-G
40106123009	102814009	EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
40106123010	102814010	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40106123011	102814011	EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40106123012	102814012	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
40106123013	102814013	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
40106123014	102814014	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
40106123015	102814015	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
40106123016	102814016	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G

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### SAMPLE ANALYTE COUNT

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40106123017	102814017	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
40106123018	102814018	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
40106123019	102814019	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
40106123020	102814020	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	MRS	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	HNW	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	BAF	1	PASI-G
40106123021	102814021	EPA 353.2	DAW	1	PASI-G
		EPA 8260	LAP	8	PASI-G

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

---

**Method:** EPA 8015B Modified

**Description:** Methane, Ethane, Ethene GCV

**Client:** Natural Resources Technologies

**Date:** November 12, 2014

**General Information:**

20 samples were analyzed for EPA 8015B Modified. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

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

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Internal Standards:**

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

**Surrogates:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

QC Batch: GCV/13466

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40106123016

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

- MS (Lab ID: 1073634)
- Methane

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

---

**Method:** EPA 6020  
**Description:** 6020 MET ICPMS, Dissolved  
**Client:** Natural Resources Technologies  
**Date:** November 12, 2014

**General Information:**

20 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

**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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

---

**Method:** EPA 8270 by SIM

**Description:** 8270 MSSV PAH by SIM

**Client:** Natural Resources Technologies

**Date:** November 12, 2014

**General Information:**

20 samples were analyzed for EPA 8270 by SIM. All samples were received in acceptable condition with any exceptions noted below.

**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: OEXT/24912

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

- 102814006 (Lab ID: 40106123006)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)

QC Batch: OEXT/24989

S0: Surrogate recovery outside laboratory control limits.

- 102814014 (Lab ID: 40106123014)
  - Terphenyl-d14 (S)

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- 102814008 (Lab ID: 40106123008)
  - Terphenyl-d14 (S)

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

- 102814011 (Lab ID: 40106123011)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)

**Method Blank:**

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

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

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**Method:** EPA 8270 by SIM

**Description:** 8270 MSSV PAH by SIM

**Client:** Natural Resources Technologies

**Date:** November 12, 2014

QC Batch: OEXT/24912

B: Analyte was detected in the associated method blank.

- BLANK for HBN 177749 [OEXT/249 (Lab ID: 1072663)]
  - 1-Methylnaphthalene
  - Naphthalene
  - Phenanthrene

QC Batch: OEXT/24989

B: Analyte was detected in the associated method blank.

- BLANK for HBN 178173 [OEXT/249 (Lab ID: 1075487)]
  - Benzo(a)anthracene
  - Chrysene

### 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: OEXT/24912

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40106106010

R1: RPD value was outside control limits.

- MSD (Lab ID: 1072666)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(k)fluoranthene
  - Chrysene

### Additional Comments:

Analyte Comments:

QC Batch: OEXT/24989

1q: There was no sample volume available for reextraction and reanalysis.

- 102814008 (Lab ID: 40106123008)
  - Terphenyl-d14 (S)
- 102814014 (Lab ID: 40106123014)
  - Terphenyl-d14 (S)

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## PROJECT NARRATIVE

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

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**Method:** EPA 8260

**Description:** 8260 MSV UST

**Client:** Natural Resources Technologies

**Date:** November 12, 2014

### General Information:

21 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

pH: Post-analysis pH measurement indicates insufficient VOA sample preservation.

- 102814021 (Lab ID: 40106123021)

### Hold Time:

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

### Initial Calibrations (including MS Tune as applicable):

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

### Continuing Calibration:

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

### Internal Standards:

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

### Surrogates:

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

### Method Blank:

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

### Laboratory Control Spike:

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

### Matrix Spikes:

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

### Additional Comments:

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## PROJECT NARRATIVE

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

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**Method:** EPA 300.0

**Description:** 300.0 IC Anions 28 Days

**Client:** Natural Resources Technologies

**Date:** November 12, 2014

**General Information:**

20 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

**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.

**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: WETA/26100

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40106123001,40106123016

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

- MS (Lab ID: 1079753)
  - Sulfate
- MSD (Lab ID: 1079754)
  - Sulfate

**Additional Comments:**

Analyte Comments:

QC Batch: WETA/26100

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

- 102814003 (Lab ID: 40106123003)
  - Sulfate
- 102814011 (Lab ID: 40106123011)
  - Sulfate

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## PROJECT NARRATIVE

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

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**Method:** EPA 310.2  
**Description:** 310.2 Alkalinity  
**Client:** Natural Resources Technologies  
**Date:** November 12, 2014

**General Information:**

20 samples were analyzed for EPA 310.2. All samples were received in acceptable condition with any exceptions noted below.

**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.

**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: WETA/25995

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40105947001,40106123001

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

- MS (Lab ID: 1076328)
- Alkalinity, Total as CaCO<sub>3</sub>

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

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**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.

**Client:** Natural Resources Technologies

**Date:** November 12, 2014

**General Information:**

20 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

**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.

**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: WETA/25912

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40106123016,40106182001

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

- MS (Lab ID: 1073629)
  - Nitrogen, NO<sub>2</sub> plus NO<sub>3</sub>
- MSD (Lab ID: 1073630)
  - Nitrogen, NO<sub>2</sub> plus NO<sub>3</sub>

**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: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

**Sample: 102714001**      **Lab ID: 40106123001**      Collected: 10/27/14 17:29      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Methane	12000	ug/L	280	137	100		10/31/14 13:10	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 12:51	7429-90-5	
Antimony, Dissolved	0.16J	ug/L	1.0	0.073	1	10/31/14 10:21	11/04/14 22:38	7440-36-0	
Copper, Dissolved	0.49J	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 12:51	7440-50-8	
Iron, Dissolved	3870	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 12:51	7439-89-6	
Manganese, Dissolved	535	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 12:51	7439-96-5	
Nickel, Dissolved	4.3	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 12:51	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 12:51	7440-22-4	
Vanadium, Dissolved	1.6	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 12:51	7440-62-2	
Zinc, Dissolved	6.7J	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 12:51	7440-66-6	
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	0.16	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 09:47	83-32-9	
Acenaphthylene	0.10	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 09:47	208-96-8	
Anthracene	0.068	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 09:47	120-12-7	
Benzo(a)anthracene	0.019J	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 09:47	56-55-3	
Benzo(a)pyrene	0.017J	ug/L	0.047	0.0026	1	10/30/14 08:20	11/05/14 09:47	50-32-8	
Benzo(b)fluoranthene	0.022J	ug/L	0.047	0.0028	1	10/30/14 08:20	11/05/14 09:47	205-99-2	
Benzo(g,h,i)perylene	0.016J	ug/L	0.047	0.0032	1	10/30/14 08:20	11/05/14 09:47	191-24-2	
Benzo(k)fluoranthene	0.0081J	ug/L	0.047	0.0034	1	10/30/14 08:20	11/05/14 09:47	207-08-9	
Chrysene	0.025J	ug/L	0.047	0.0021	1	10/30/14 08:20	11/05/14 09:47	218-01-9	
Dibenz(a,h)anthracene	0.0033J	ug/L	0.047	0.0032	1	10/30/14 08:20	11/05/14 09:47	53-70-3	
Fluoranthene	0.080	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 09:47	206-44-0	
Fluorene	0.10	ug/L	0.047	0.0022	1	10/30/14 08:20	11/05/14 09:47	86-73-7	
Indeno(1,2,3-cd)pyrene	0.012J	ug/L	0.047	0.0025	1	10/30/14 08:20	11/05/14 09:47	193-39-5	
1-Methylnaphthalene	0.057	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 09:47	90-12-0	
2-Methylnaphthalene	0.030J	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 09:47	91-57-6	
Naphthalene	0.37	ug/L	0.047	0.0041	1	10/30/14 08:20	11/05/14 09:47	91-20-3	
Phenanthrene	0.021J	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 09:47	85-01-8	B
Pyrene	0.094	ug/L	0.047	0.0024	1	10/30/14 08:20	11/05/14 09:47	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	40	%	24-130		1	10/30/14 08:20	11/05/14 09:47	321-60-8	
Terphenyl-d14 (S)	89	%	44-169		1	10/30/14 08:20	11/05/14 09:47	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/14 19:39	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/14 19:39	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/14 19:39	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/14 19:39	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/14 19:39	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	116	%	70-130		1		10/30/14 19:39	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/30/14 19:39	2037-26-5	
4-Bromofluorobenzene (S)	89	%	59-130		1		10/30/14 19:39	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

Sample: 102714001      Lab ID: 40106123001      Collected: 10/27/14 17:29      Received: 10/29/14 10:20      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	35.4	mg/L	4.0	2.0	1		11/11/14 21:02	14808-79-8	M0
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	922	mg/L	100	37.5	5		11/06/14 08:08		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		10/31/14 12:48		

Sample: 102714002      Lab ID: 40106123002      Collected: 10/27/14 18:13      Received: 10/29/14 10:20      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	3470	ug/L	70.0	34.2	25		10/31/14 13:17	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 13:05	7429-90-5	
Antimony, Dissolved	0.24J	ug/L	1.0	0.073	1	10/31/14 10:21	11/04/14 22:51	7440-36-0	
Copper, Dissolved	0.52J	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 13:05	7440-50-8	
Iron, Dissolved	9310	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 13:05	7439-89-6	
Manganese, Dissolved	860	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 13:05	7439-96-5	
Nickel, Dissolved	4.4	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 13:05	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 13:05	7440-22-4	
Vanadium, Dissolved	0.98J	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 13:05	7440-62-2	
Zinc, Dissolved	8.3J	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 13:05	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.019J	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 10:05	83-32-9	
Acenaphthylene	0.012J	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 10:05	208-96-8	
Anthracene	0.0036J	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 10:05	120-12-7	
Benzo(a)anthracene	0.0053J	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 10:05	56-55-3	
Benzo(a)pyrene	0.0057J	ug/L	0.047	0.0026	1	10/30/14 08:20	11/05/14 10:05	50-32-8	
Benzo(b)fluoranthene	0.0079J	ug/L	0.047	0.0028	1	10/30/14 08:20	11/05/14 10:05	205-99-2	
Benzo(g,h,i)perylene	0.0046J	ug/L	0.047	0.0032	1	10/30/14 08:20	11/05/14 10:05	191-24-2	
Benzo(k)fluoranthene	<0.0034	ug/L	0.047	0.0034	1	10/30/14 08:20	11/05/14 10:05	207-08-9	
Chrysene	0.0085J	ug/L	0.047	0.0021	1	10/30/14 08:20	11/05/14 10:05	218-01-9	
Dibenz(a,h)anthracene	<0.0032	ug/L	0.047	0.0032	1	10/30/14 08:20	11/05/14 10:05	53-70-3	
Fluoranthene	0.014J	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 10:05	206-44-0	
Fluorene	0.0044J	ug/L	0.047	0.0022	1	10/30/14 08:20	11/05/14 10:05	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0036J	ug/L	0.047	0.0025	1	10/30/14 08:20	11/05/14 10:05	193-39-5	
1-Methylnaphthalene	0.0097J	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 10:05	90-12-0	B
2-Methylnaphthalene	0.0047J	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 10:05	91-57-6	
Naphthalene	0.12	ug/L	0.047	0.0041	1	10/30/14 08:20	11/05/14 10:05	91-20-3	
Phenanthrene	0.012J	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 10:05	85-01-8	B

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

**Sample: 102714002**      **Lab ID: 40106123002**      Collected: 10/27/14 18:13      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Pyrene	<b>0.014J</b>	ug/L	0.047	0.0024	1	10/30/14 08:20	11/05/14 10:05	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	31 %		24-130		1	10/30/14 08:20	11/05/14 10:05	321-60-8	
Terphenyl-d14 (S)	74 %		44-169		1	10/30/14 08:20	11/05/14 10:05	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/14 20:02	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/14 20:02	100-41-4	
Toluene	<b>0.56J</b>	ug/L	1.0	0.50	1		10/30/14 20:02	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/30/14 20:02	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/14 20:02	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	117 %		70-130		1		10/30/14 20:02	1868-53-7	
Toluene-d8 (S)	103 %		70-130		1		10/30/14 20:02	2037-26-5	
4-Bromofluorobenzene (S)	86 %		59-130		1		10/30/14 20:02	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>27.2</b>	mg/L	20.0	10.0	5		11/11/14 21:34	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>830</b>	mg/L	100	37.5	5		11/06/14 09:25		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		10/31/14 12:49		

**Sample: 102814003**      **Lab ID: 40106123003**      Collected: 10/28/14 08:07      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>5360</b>	ug/L	140	68.5	50		10/31/14 13:24	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 13:11	7429-90-5	
Antimony, Dissolved	<b>&lt;0.073</b>	ug/L	1.0	0.073	1	10/31/14 10:21	11/04/14 22:57	7440-36-0	
Copper, Dissolved	<b>10.2</b>	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 13:11	7440-50-8	
Iron, Dissolved	<b>38200</b>	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 13:11	7439-89-6	
Manganese, Dissolved	<b>433</b>	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 13:11	7439-96-5	
Nickel, Dissolved	<b>2.9</b>	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 13:11	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 13:11	7440-22-4	
Vanadium, Dissolved	<b>0.49J</b>	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 13:11	7440-62-2	
Zinc, Dissolved	<b>39.1</b>	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 13:11	7440-66-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

**Sample: 102814003**      **Lab ID: 40106123003**      Collected: 10/28/14 08:07      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	2.4	ug/L	0.24	0.012	5	10/30/14 08:20	11/05/14 10:24	83-32-9	
Acenaphthylene	0.095J	ug/L	0.24	0.0098	5	10/30/14 08:20	11/05/14 10:24	208-96-8	
Anthracene	0.12J	ug/L	0.24	0.012	5	10/30/14 08:20	11/05/14 10:24	120-12-7	
Benzo(a)anthracene	0.096J	ug/L	0.24	0.0098	5	10/30/14 08:20	11/05/14 10:24	56-55-3	
Benzo(a)pyrene	0.090J	ug/L	0.24	0.013	5	10/30/14 08:20	11/05/14 10:24	50-32-8	
Benzo(b)fluoranthene	0.13J	ug/L	0.24	0.014	5	10/30/14 08:20	11/05/14 10:24	205-99-2	
Benzo(g,h,i)perylene	0.073J	ug/L	0.24	0.016	5	10/30/14 08:20	11/05/14 10:24	191-24-2	
Benzo(k)fluoranthene	0.049J	ug/L	0.24	0.017	5	10/30/14 08:20	11/05/14 10:24	207-08-9	
Chrysene	0.15J	ug/L	0.24	0.010	5	10/30/14 08:20	11/05/14 10:24	218-01-9	
Dibenz(a,h)anthracene	<0.016	ug/L	0.24	0.016	5	10/30/14 08:20	11/05/14 10:24	53-70-3	
Fluoranthene	0.48	ug/L	0.24	0.011	5	10/30/14 08:20	11/05/14 10:24	206-44-0	
Fluorene	0.45	ug/L	0.24	0.011	5	10/30/14 08:20	11/05/14 10:24	86-73-7	
Indeno(1,2,3-cd)pyrene	0.058J	ug/L	0.24	0.013	5	10/30/14 08:20	11/05/14 10:24	193-39-5	
1-Methylnaphthalene	0.37	ug/L	0.24	0.0099	5	10/30/14 08:20	11/05/14 10:24	90-12-0	
2-Methylnaphthalene	0.025J	ug/L	0.24	0.010	5	10/30/14 08:20	11/05/14 10:24	91-57-6	
Naphthalene	0.13J	ug/L	0.24	0.021	5	10/30/14 08:20	11/05/14 10:24	91-20-3	B
Phenanthrene	0.39	ug/L	0.24	0.011	5	10/30/14 08:20	11/05/14 10:24	85-01-8	
Pyrene	0.44	ug/L	0.24	0.012	5	10/30/14 08:20	11/05/14 10:24	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	41	%	24-130		5	10/30/14 08:20	11/05/14 10:24	321-60-8	
Terphenyl-d14 (S)	65	%	44-169		5	10/30/14 08:20	11/05/14 10:24	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/14 20:25	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/14 20:25	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/14 20:25	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/14 20:25	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/14 20:25	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	120	%	70-130		1		10/30/14 20:25	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/30/14 20:25	2037-26-5	
4-Bromofluorobenzene (S)	88	%	59-130		1		10/30/14 20:25	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<10.0	mg/L	20.0	10.0	5		11/11/14 21:44	14808-79-8	D3
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	386	mg/L	20.0	7.5	1		11/06/14 08:10		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		10/31/14 12:50		

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

**Sample: 102814004**      **Lab ID: 40106123004**      Collected: 10/28/14 08:46      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	925	ug/L	28.0	13.7	10		10/31/14 13:31	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 13:18	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	10/31/14 10:21	11/04/14 23:04	7440-36-0	
Copper, Dissolved	1.3	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 13:18	7440-50-8	
Iron, Dissolved	24200	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 13:18	7439-89-6	
Manganese, Dissolved	1200	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 13:18	7439-96-5	
Nickel, Dissolved	1.4	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 13:18	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 13:18	7440-22-4	
Vanadium, Dissolved	5.5	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 13:18	7440-62-2	
Zinc, Dissolved	6.0J	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 13:18	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.36	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 10:42	83-32-9	
Acenaphthylene	0.038J	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 10:42	208-96-8	
Anthracene	0.074	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 10:42	120-12-7	
Benzo(a)anthracene	0.080	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 10:42	56-55-3	
Benzo(a)pyrene	0.098	ug/L	0.047	0.0026	1	10/30/14 08:20	11/05/14 10:42	50-32-8	
Benzo(b)fluoranthene	0.16	ug/L	0.047	0.0028	1	10/30/14 08:20	11/05/14 10:42	205-99-2	
Benzo(g,h,i)perylene	0.10	ug/L	0.047	0.0032	1	10/30/14 08:20	11/05/14 10:42	191-24-2	
Benzo(k)fluoranthene	0.059	ug/L	0.047	0.0034	1	10/30/14 08:20	11/05/14 10:42	207-08-9	
Chrysene	0.13	ug/L	0.047	0.0021	1	10/30/14 08:20	11/05/14 10:42	218-01-9	
Dibenz(a,h)anthracene	0.018J	ug/L	0.047	0.0032	1	10/30/14 08:20	11/05/14 10:42	53-70-3	
Fluoranthene	0.29	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 10:42	206-44-0	
Fluorene	0.18	ug/L	0.047	0.0022	1	10/30/14 08:20	11/05/14 10:42	86-73-7	
Indeno(1,2,3-cd)pyrene	0.080	ug/L	0.047	0.0025	1	10/30/14 08:20	11/05/14 10:42	193-39-5	
1-Methylnaphthalene	0.13	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 10:42	90-12-0	
2-Methylnaphthalene	0.014J	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 10:42	91-57-6	
Naphthalene	0.30	ug/L	0.047	0.0041	1	10/30/14 08:20	11/05/14 10:42	91-20-3	
Phenanthrene	0.14	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 10:42	85-01-8	
Pyrene	0.31	ug/L	0.047	0.0024	1	10/30/14 08:20	11/05/14 10:42	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	45 %		24-130		1	10/30/14 08:20	11/05/14 10:42	321-60-8	
Terphenyl-d14 (S)	89 %		44-169		1	10/30/14 08:20	11/05/14 10:42	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/14 20:48	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/14 20:48	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/14 20:48	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/14 20:48	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/14 20:48	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	118 %		70-130		1		10/30/14 20:48	1868-53-7	
Toluene-d8 (S)	102 %		70-130		1		10/30/14 20:48	2037-26-5	
4-Bromofluorobenzene (S)	85 %		59-130		1		10/30/14 20:48	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

Sample: 102814004      Lab ID: 40106123004      Collected: 10/28/14 08:46      Received: 10/29/14 10:20      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	67.7	mg/L	20.0	10.0	5		11/12/14 10:24	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	576	mg/L	100	37.5	5		11/06/14 09:27		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		10/31/14 12:52		

Sample: 102814005      Lab ID: 40106123005      Collected: 10/28/14 08:51      Received: 10/29/14 10:20      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	834	ug/L	28.0	13.7	10		10/31/14 13:38	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 13:37	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	10/31/14 10:21	11/04/14 23:10	7440-36-0	
Copper, Dissolved	0.30J	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 13:37	7440-50-8	
Iron, Dissolved	23400	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 13:37	7439-89-6	
Manganese, Dissolved	1180	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 13:37	7439-96-5	
Nickel, Dissolved	0.93J	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 13:37	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 13:37	7440-22-4	
Vanadium, Dissolved	5.3	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 13:37	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 13:37	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.36	ug/L	0.048	0.0023	1	10/30/14 08:20	11/05/14 11:01	83-32-9	
Acenaphthylene	0.033J	ug/L	0.048	0.0020	1	10/30/14 08:20	11/05/14 11:01	208-96-8	
Anthracene	0.066	ug/L	0.048	0.0024	1	10/30/14 08:20	11/05/14 11:01	120-12-7	
Benzo(a)anthracene	0.062	ug/L	0.048	0.0020	1	10/30/14 08:20	11/05/14 11:01	56-55-3	
Benzo(a)pyrene	0.069	ug/L	0.048	0.0026	1	10/30/14 08:20	11/05/14 11:01	50-32-8	
Benzo(b)fluoranthene	0.10	ug/L	0.048	0.0028	1	10/30/14 08:20	11/05/14 11:01	205-99-2	
Benzo(g,h,i)perylene	0.064	ug/L	0.048	0.0032	1	10/30/14 08:20	11/05/14 11:01	191-24-2	
Benzo(k)fluoranthene	0.039J	ug/L	0.048	0.0034	1	10/30/14 08:20	11/05/14 11:01	207-08-9	
Chrysene	0.093	ug/L	0.048	0.0021	1	10/30/14 08:20	11/05/14 11:01	218-01-9	
Dibenz(a,h)anthracene	0.013J	ug/L	0.048	0.0032	1	10/30/14 08:20	11/05/14 11:01	53-70-3	
Fluoranthene	0.24	ug/L	0.048	0.0023	1	10/30/14 08:20	11/05/14 11:01	206-44-0	
Fluorene	0.17	ug/L	0.048	0.0022	1	10/30/14 08:20	11/05/14 11:01	86-73-7	
Indeno(1,2,3-cd)pyrene	0.051	ug/L	0.048	0.0026	1	10/30/14 08:20	11/05/14 11:01	193-39-5	
1-Methylnaphthalene	0.11	ug/L	0.048	0.0020	1	10/30/14 08:20	11/05/14 11:01	90-12-0	
2-Methylnaphthalene	0.011J	ug/L	0.048	0.0020	1	10/30/14 08:20	11/05/14 11:01	91-57-6	
Naphthalene	0.27	ug/L	0.048	0.0042	1	10/30/14 08:20	11/05/14 11:01	91-20-3	
Phenanthrene	0.083	ug/L	0.048	0.0023	1	10/30/14 08:20	11/05/14 11:01	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

**Sample: 102814005**      **Lab ID: 40106123005**      Collected: 10/28/14 08:51      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Pyrene	0.27	ug/L	0.048	0.0024	1	10/30/14 08:20	11/05/14 11:01	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	35	%	24-130		1	10/30/14 08:20	11/05/14 11:01	321-60-8	
Terphenyl-d14 (S)	90	%	44-169		1	10/30/14 08:20	11/05/14 11:01	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/14 21:11	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/14 21:11	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/14 21:11	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/14 21:11	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/14 21:11	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	118	%	70-130		1		10/30/14 21:11	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/30/14 21:11	2037-26-5	
4-Bromofluorobenzene (S)	86	%	59-130		1		10/30/14 21:11	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	65.3	mg/L	20.0	10.0	5		11/11/14 22:05	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	583	mg/L	100	37.5	5		11/06/14 09:28		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		10/31/14 12:53		

**Sample: 102814006**      **Lab ID: 40106123006**      Collected: 10/28/14 09:35      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	4190	ug/L	70.0	34.2	25		10/31/14 13:45	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 13:43	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	10/31/14 10:21	11/04/14 23:17	7440-36-0	
Copper, Dissolved	3.0	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 13:43	7440-50-8	
Iron, Dissolved	29600	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 13:43	7439-89-6	
Manganese, Dissolved	1470	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 13:43	7439-96-5	
Nickel, Dissolved	1.2	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 13:43	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 13:43	7440-22-4	
Vanadium, Dissolved	2.6	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 13:43	7440-62-2	
Zinc, Dissolved	4.6J	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 13:43	7440-66-6	

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## ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

**Sample: 102814006**      **Lab ID: 40106123006**      Collected: 10/28/14 09:35      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	97.8	ug/L	47.2	2.3	1000	10/30/14 08:20	11/05/14 11:19	83-32-9	
Acenaphthylene	<2.0	ug/L	47.2	2.0	1000	10/30/14 08:20	11/05/14 11:19	208-96-8	
Anthracene	7.5J	ug/L	47.2	2.3	1000	10/30/14 08:20	11/05/14 11:19	120-12-7	
Benzo(a)anthracene	<2.0	ug/L	47.2	2.0	1000	10/30/14 08:20	11/05/14 11:19	56-55-3	
Benzo(a)pyrene	<2.6	ug/L	47.2	2.6	1000	10/30/14 08:20	11/05/14 11:19	50-32-8	
Benzo(b)fluoranthene	<2.8	ug/L	47.2	2.8	1000	10/30/14 08:20	11/05/14 11:19	205-99-2	
Benzo(g,h,i)perylene	<3.2	ug/L	47.2	3.2	1000	10/30/14 08:20	11/05/14 11:19	191-24-2	
Benzo(k)fluoranthene	<3.4	ug/L	47.2	3.4	1000	10/30/14 08:20	11/05/14 11:19	207-08-9	
Chrysene	<2.1	ug/L	47.2	2.1	1000	10/30/14 08:20	11/05/14 11:19	218-01-9	
Dibenz(a,h)anthracene	<3.2	ug/L	47.2	3.2	1000	10/30/14 08:20	11/05/14 11:19	53-70-3	
Fluoranthene	3.9J	ug/L	47.2	2.3	1000	10/30/14 08:20	11/05/14 11:19	206-44-0	
Fluorene	30.7J	ug/L	47.2	2.2	1000	10/30/14 08:20	11/05/14 11:19	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.5	ug/L	47.2	2.5	1000	10/30/14 08:20	11/05/14 11:19	193-39-5	
1-Methylnaphthalene	105	ug/L	47.2	2.0	1000	10/30/14 08:20	11/05/14 11:19	90-12-0	
2-Methylnaphthalene	7.8J	ug/L	47.2	2.0	1000	10/30/14 08:20	11/05/14 11:19	91-57-6	
Naphthalene	576	ug/L	47.2	4.1	1000	10/30/14 08:20	11/05/14 11:19	91-20-3	
Phenanthrene	38.3J	ug/L	47.2	2.3	1000	10/30/14 08:20	11/05/14 11:19	85-01-8	B
Pyrene	3.8J	ug/L	47.2	2.4	1000	10/30/14 08:20	11/05/14 11:19	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0 %		24-130		1000	10/30/14 08:20	11/05/14 11:19	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-169		1000	10/30/14 08:20	11/05/14 11:19	1718-51-0	S4
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	330	ug/L	2.0	1.0	2		10/31/14 03:21	71-43-2	
Ethylbenzene	213	ug/L	2.0	1.0	2		10/31/14 03:21	100-41-4	
Toluene	9.8	ug/L	2.0	1.0	2		10/31/14 03:21	108-88-3	
m&p-Xylene	17.1	ug/L	4.0	2.0	2		10/31/14 03:21	179601-23-1	
o-Xylene	110	ug/L	2.0	1.0	2		10/31/14 03:21	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	130 %		70-130		2		10/31/14 03:21	1868-53-7	
Toluene-d8 (S)	101 %		70-130		2		10/31/14 03:21	2037-26-5	
4-Bromofluorobenzene (S)	113 %		59-130		2		10/31/14 03:21	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	20.2	mg/L	20.0	10.0	5		11/11/14 22:16	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	940	mg/L	100	37.5	5		11/06/14 09:29		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		10/31/14 12:54		

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

**Sample: 102814007**      **Lab ID: 40106123007**      Collected: 10/28/14 10:15      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		10/31/14 10:51	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 13:50	7429-90-5	
Antimony, Dissolved	0.087J	ug/L	1.0	0.073	1	10/31/14 10:21	11/04/14 23:23	7440-36-0	
Copper, Dissolved	2.5	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 13:50	7440-50-8	
Iron, Dissolved	55.3J	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 13:50	7439-89-6	
Manganese, Dissolved	244	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 13:50	7439-96-5	
Nickel, Dissolved	1.6	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 13:50	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 13:50	7440-22-4	
Vanadium, Dissolved	0.34J	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 13:50	7440-62-2	
Zinc, Dissolved	40.8	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 13:50	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.0069J	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 11:37	83-32-9	
Acenaphthylene	0.0075J	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 11:37	208-96-8	
Anthracene	0.0041J	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 11:37	120-12-7	
Benzo(a)anthracene	0.016J	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 11:37	56-55-3	
Benzo(a)pyrene	0.021J	ug/L	0.047	0.0026	1	10/30/14 08:20	11/05/14 11:37	50-32-8	
Benzo(b)fluoranthene	0.029J	ug/L	0.047	0.0028	1	10/30/14 08:20	11/05/14 11:37	205-99-2	
Benzo(g,h,i)perylene	0.020J	ug/L	0.047	0.0032	1	10/30/14 08:20	11/05/14 11:37	191-24-2	
Benzo(k)fluoranthene	0.012J	ug/L	0.047	0.0034	1	10/30/14 08:20	11/05/14 11:37	207-08-9	
Chrysene	0.026J	ug/L	0.047	0.0021	1	10/30/14 08:20	11/05/14 11:37	218-01-9	
Dibenz(a,h)anthracene	0.0033J	ug/L	0.047	0.0032	1	10/30/14 08:20	11/05/14 11:37	53-70-3	
Fluoranthene	0.039J	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 11:37	206-44-0	
Fluorene	<0.0022	ug/L	0.047	0.0022	1	10/30/14 08:20	11/05/14 11:37	86-73-7	
Indeno(1,2,3-cd)pyrene	0.014J	ug/L	0.047	0.0025	1	10/30/14 08:20	11/05/14 11:37	193-39-5	
1-Methylnaphthalene	0.0087J	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 11:37	90-12-0	B
2-Methylnaphthalene	0.0030J	ug/L	0.047	0.0020	1	10/30/14 08:20	11/05/14 11:37	91-57-6	
Naphthalene	0.038J	ug/L	0.047	0.0041	1	10/30/14 08:20	11/05/14 11:37	91-20-3	B
Phenanthrene	0.020J	ug/L	0.047	0.0023	1	10/30/14 08:20	11/05/14 11:37	85-01-8	B
Pyrene	0.040J	ug/L	0.047	0.0024	1	10/30/14 08:20	11/05/14 11:37	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	57 %		24-130		1	10/30/14 08:20	11/05/14 11:37	321-60-8	
Terphenyl-d14 (S)	104 %		44-169		1	10/30/14 08:20	11/05/14 11:37	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/14 21:34	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/14 21:34	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/14 21:34	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/14 21:34	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/14 21:34	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	124 %		70-130		1		10/30/14 21:34	1868-53-7	
Toluene-d8 (S)	103 %		70-130		1		10/30/14 21:34	2037-26-5	
4-Bromofluorobenzene (S)	87 %		59-130		1		10/30/14 21:34	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

Sample: 102814007      Lab ID: 40106123007      Collected: 10/28/14 10:15      Received: 10/29/14 10:20      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	638	mg/L	200	100	50		11/12/14 10:35	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	184	mg/L	20.0	7.5	1		11/06/14 08:13		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	1.7	mg/L	0.25	0.095	1		10/31/14 12:55		

Sample: 102814008      Lab ID: 40106123008      Collected: 10/28/14 11:28      Received: 10/29/14 10:20      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		10/31/14 10:58	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 13:56	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	10/31/14 10:21	11/04/14 23:30	7440-36-0	
Copper, Dissolved	1.9	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 13:56	7440-50-8	
Iron, Dissolved	5.7J	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 13:56	7439-89-6	
Manganese, Dissolved	1290	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 13:56	7439-96-5	
Nickel, Dissolved	2.0	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 13:56	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 13:56	7440-22-4	
Vanadium, Dissolved	<0.15	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 13:56	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 13:56	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.0023J	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 12:33	83-32-9	
Acenaphthylene	<0.0020	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 12:33	208-96-8	
Anthracene	0.0037J	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 12:33	120-12-7	
Benzo(a)anthracene	0.0087J	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 12:33	56-55-3	B
Benzo(a)pyrene	0.0098J	ug/L	0.047	0.0026	1	11/04/14 10:00	11/05/14 12:33	50-32-8	
Benzo(b)fluoranthene	0.015J	ug/L	0.047	0.0028	1	11/04/14 10:00	11/05/14 12:33	205-99-2	
Benzo(g,h,i)perylene	0.0097J	ug/L	0.047	0.0032	1	11/04/14 10:00	11/05/14 12:33	191-24-2	
Benzo(k)fluoranthene	0.0069J	ug/L	0.047	0.0034	1	11/04/14 10:00	11/05/14 12:33	207-08-9	
Chrysene	0.013J	ug/L	0.047	0.0021	1	11/04/14 10:00	11/05/14 12:33	218-01-9	B
Dibenz(a,h)anthracene	<0.0032	ug/L	0.047	0.0032	1	11/04/14 10:00	11/05/14 12:33	53-70-3	
Fluoranthene	0.016J	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 12:33	206-44-0	
Fluorene	<0.0022	ug/L	0.047	0.0022	1	11/04/14 10:00	11/05/14 12:33	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0075J	ug/L	0.047	0.0025	1	11/04/14 10:00	11/05/14 12:33	193-39-5	
1-Methylnaphthalene	0.0031J	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 12:33	90-12-0	
2-Methylnaphthalene	0.0027J	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 12:33	91-57-6	
Naphthalene	0.018J	ug/L	0.047	0.0041	1	11/04/14 10:00	11/05/14 12:33	91-20-3	
Phenanthrene	0.0084J	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 12:33	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

Sample: 102814008      Lab ID: 40106123008      Collected: 10/28/14 11:28      Received: 10/29/14 10:20      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Pyrene	0.019J	ug/L	0.047	0.0024	1	11/04/14 10:00	11/05/14 12:33	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	37 %		24-130		1	11/04/14 10:00	11/05/14 12:33	321-60-8	
Terphenyl-d14 (S)	285 %		44-169		1	11/04/14 10:00	11/05/14 12:33	1718-51-0	1q,S3
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/14 21:57	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/14 21:57	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/14 21:57	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/14 21:57	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/14 21:57	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	127 %		70-130		1		10/30/14 21:57	1868-53-7	
Toluene-d8 (S)	101 %		70-130		1		10/30/14 21:57	2037-26-5	
4-Bromofluorobenzene (S)	86 %		59-130		1		10/30/14 21:57	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	91.9	mg/L	20.0	10.0	5		11/11/14 22:58	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	264	mg/L	20.0	7.5	1		11/06/14 08:13		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	3.8	mg/L	0.25	0.095	1		10/31/14 12:58		
Sample: 102814009      Lab ID: 40106123009      Collected: 10/28/14 12:20      Received: 10/29/14 10:20      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		10/31/14 11:05	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	236J	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 14:02	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	10/31/14 10:21	11/04/14 23:36	7440-36-0	
Copper, Dissolved	2.4	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 14:02	7440-50-8	
Iron, Dissolved	400	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 14:02	7439-89-6	
Manganese, Dissolved	28.1	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 14:02	7439-96-5	
Nickel, Dissolved	1.8	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 14:02	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 14:02	7440-22-4	
Vanadium, Dissolved	1.3	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 14:02	7440-62-2	
Zinc, Dissolved	7.0J	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 14:02	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

**Sample: 102814009**      **Lab ID: 40106123009**      Collected: 10/28/14 12:20      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	<b>0.0087J</b>	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 12:51	83-32-9	
Acenaphthylene	<b>0.028J</b>	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 12:51	208-96-8	
Anthracene	<b>0.016J</b>	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 12:51	120-12-7	
Benzo(a)anthracene	<b>0.038J</b>	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 12:51	56-55-3	
Benzo(a)pyrene	<b>0.039J</b>	ug/L	0.047	0.0026	1	11/04/14 10:00	11/05/14 12:51	50-32-8	
Benzo(b)fluoranthene	<b>0.048</b>	ug/L	0.047	0.0028	1	11/04/14 10:00	11/05/14 12:51	205-99-2	
Benzo(g,h,i)perylene	<b>0.027J</b>	ug/L	0.047	0.0032	1	11/04/14 10:00	11/05/14 12:51	191-24-2	
Benzo(k)fluoranthene	<b>0.019J</b>	ug/L	0.047	0.0034	1	11/04/14 10:00	11/05/14 12:51	207-08-9	
Chrysene	<b>0.047</b>	ug/L	0.047	0.0021	1	11/04/14 10:00	11/05/14 12:51	218-01-9	
Dibenz(a,h)anthracene	<b>0.0063J</b>	ug/L	0.047	0.0032	1	11/04/14 10:00	11/05/14 12:51	53-70-3	
Fluoranthene	<b>0.059</b>	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 12:51	206-44-0	
Fluorene	<b>0.0066J</b>	ug/L	0.047	0.0022	1	11/04/14 10:00	11/05/14 12:51	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.021J</b>	ug/L	0.047	0.0025	1	11/04/14 10:00	11/05/14 12:51	193-39-5	
1-Methylnaphthalene	<b>0.0080J</b>	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 12:51	90-12-0	
2-Methylnaphthalene	<b>0.0040J</b>	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 12:51	91-57-6	
Naphthalene	<b>0.0098J</b>	ug/L	0.047	0.0041	1	11/04/14 10:00	11/05/14 12:51	91-20-3	
Phenanthrene	<b>0.041J</b>	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 12:51	85-01-8	
Pyrene	<b>0.071</b>	ug/L	0.047	0.0024	1	11/04/14 10:00	11/05/14 12:51	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	40 %		24-130		1	11/04/14 10:00	11/05/14 12:51	321-60-8	
Terphenyl-d14 (S)	72 %		44-169		1	11/04/14 10:00	11/05/14 12:51	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/14 22:20	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/14 22:20	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/14 22:20	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/30/14 22:20	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/14 22:20	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	127 %		70-130		1		10/30/14 22:20	1868-53-7	
Toluene-d8 (S)	102 %		70-130		1		10/30/14 22:20	2037-26-5	
4-Bromofluorobenzene (S)	87 %		59-130		1		10/30/14 22:20	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>799</b>	mg/L	200	100	50		11/12/14 12:52	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>143</b>	mg/L	20.0	7.5	1		11/06/14 08:16		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>0.22J</b>	mg/L	0.25	0.095	1		10/31/14 12:59		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

**Sample: 102814010**      **Lab ID: 40106123010**      Collected: 10/28/14 12:47      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	14.0	ug/L	2.8	1.4	1		10/31/14 11:12	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 14:09	7429-90-5	
Antimony, Dissolved	0.64J	ug/L	1.0	0.073	1	10/31/14 10:21	11/06/14 14:09	7440-36-0	
Copper, Dissolved	7.3	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 14:09	7440-50-8	
Iron, Dissolved	269	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 14:09	7439-89-6	
Manganese, Dissolved	242	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 14:09	7439-96-5	
Nickel, Dissolved	5.7	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 14:09	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 14:09	7440-22-4	
Vanadium, Dissolved	2.1	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 14:09	7440-62-2	
Zinc, Dissolved	18.2	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 14:09	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.0031J	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 13:10	83-32-9	
Acenaphthylene	0.0048J	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 13:10	208-96-8	
Anthracene	0.037J	ug/L	0.048	0.0024	1	11/04/14 10:00	11/05/14 13:10	120-12-7	
Benzo(a)anthracene	0.010J	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 13:10	56-55-3	B
Benzo(a)pyrene	0.012J	ug/L	0.048	0.0026	1	11/04/14 10:00	11/05/14 13:10	50-32-8	
Benzo(b)fluoranthene	0.018J	ug/L	0.048	0.0028	1	11/04/14 10:00	11/05/14 13:10	205-99-2	
Benzo(g,h,i)perylene	0.013J	ug/L	0.048	0.0032	1	11/04/14 10:00	11/05/14 13:10	191-24-2	
Benzo(k)fluoranthene	0.0080J	ug/L	0.048	0.0034	1	11/04/14 10:00	11/05/14 13:10	207-08-9	
Chrysene	0.015J	ug/L	0.048	0.0021	1	11/04/14 10:00	11/05/14 13:10	218-01-9	B
Dibenz(a,h)anthracene	<0.0032	ug/L	0.048	0.0032	1	11/04/14 10:00	11/05/14 13:10	53-70-3	
Fluoranthene	0.016J	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 13:10	206-44-0	
Fluorene	<0.0022	ug/L	0.048	0.0022	1	11/04/14 10:00	11/05/14 13:10	86-73-7	
Indeno(1,2,3-cd)pyrene	0.011J	ug/L	0.048	0.0026	1	11/04/14 10:00	11/05/14 13:10	193-39-5	
1-Methylnaphthalene	0.0045J	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 13:10	90-12-0	
2-Methylnaphthalene	0.0035J	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 13:10	91-57-6	
Naphthalene	0.014J	ug/L	0.048	0.0042	1	11/04/14 10:00	11/05/14 13:10	91-20-3	
Phenanthrene	0.0069J	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 13:10	85-01-8	
Pyrene	0.018J	ug/L	0.048	0.0024	1	11/04/14 10:00	11/05/14 13:10	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	51	%	24-130		1	11/04/14 10:00	11/05/14 13:10	321-60-8	
Terphenyl-d14 (S)	79	%	44-169		1	11/04/14 10:00	11/05/14 13:10	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/14 22:44	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/14 22:44	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/14 22:44	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/14 22:44	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/14 22:44	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	126	%	70-130		1		10/30/14 22:44	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/30/14 22:44	2037-26-5	
4-Bromofluorobenzene (S)	86	%	59-130		1		10/30/14 22:44	460-00-4	

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## ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

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**Sample: 102814010**      **Lab ID: 40106123010**      Collected: 10/28/14 12:47      Received: 10/29/14 10:20      Matrix: Water

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Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>204</b>	mg/L	20.0	10.0	5		11/12/14 10:56	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub>	<b>477</b>	mg/L	100	37.5	5		11/06/14 09:30		
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO <sub>2</sub> plus NO <sub>3</sub>	<b>4.7</b>	mg/L	0.25	0.095	1		10/31/14 13:00		

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## ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

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**Sample: 102814012**      **Lab ID: 40106123012**      Collected: 10/28/14 14:14      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		10/31/14 11:37	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 14:22	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	10/31/14 10:21	11/06/14 14:22	7440-36-0	
Copper, Dissolved	3.3	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 14:22	7440-50-8	
Iron, Dissolved	287	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 14:22	7439-89-6	
Manganese, Dissolved	0.83J	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 14:22	7439-96-5	
Nickel, Dissolved	1.0	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 14:22	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 14:22	7440-22-4	
Vanadium, Dissolved	<0.15	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 14:22	7440-62-2	
Zinc, Dissolved	5.9J	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 14:22	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

**Sample: 102814012**      **Lab ID: 40106123012**      Collected: 10/28/14 14:14      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.0040J	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 13:47	83-32-9	
Acenaphthylene	0.015J	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 13:47	208-96-8	
Anthracene	0.023J	ug/L	0.048	0.0024	1	11/04/14 10:00	11/05/14 13:47	120-12-7	
Benzo(a)anthracene	0.010J	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 13:47	56-55-3	B
Benzo(a)pyrene	0.010J	ug/L	0.048	0.0026	1	11/04/14 10:00	11/05/14 13:47	50-32-8	
Benzo(b)fluoranthene	0.016J	ug/L	0.048	0.0028	1	11/04/14 10:00	11/05/14 13:47	205-99-2	
Benzo(g,h,i)perylene	0.012J	ug/L	0.048	0.0032	1	11/04/14 10:00	11/05/14 13:47	191-24-2	
Benzo(k)fluoranthene	0.0068J	ug/L	0.048	0.0034	1	11/04/14 10:00	11/05/14 13:47	207-08-9	
Chrysene	0.014J	ug/L	0.048	0.0021	1	11/04/14 10:00	11/05/14 13:47	218-01-9	B
Dibenz(a,h)anthracene	0.0034J	ug/L	0.048	0.0032	1	11/04/14 10:00	11/05/14 13:47	53-70-3	
Fluoranthene	0.017J	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 13:47	206-44-0	
Fluorene	0.0039J	ug/L	0.048	0.0022	1	11/04/14 10:00	11/05/14 13:47	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0090J	ug/L	0.048	0.0026	1	11/04/14 10:00	11/05/14 13:47	193-39-5	
1-Methylnaphthalene	0.026J	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 13:47	90-12-0	
2-Methylnaphthalene	<0.0020	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 13:47	91-57-6	
Naphthalene	0.064	ug/L	0.048	0.0042	1	11/04/14 10:00	11/05/14 13:47	91-20-3	
Phenanthrene	0.012J	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 13:47	85-01-8	
Pyrene	0.018J	ug/L	0.048	0.0024	1	11/04/14 10:00	11/05/14 13:47	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	33 %		24-130		1	11/04/14 10:00	11/05/14 13:47	321-60-8	
Terphenyl-d14 (S)	79 %		44-169		1	11/04/14 10:00	11/05/14 13:47	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/14 23:07	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/14 23:07	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/14 23:07	108-88-3	
m&p-Xylene	1.0J	ug/L	2.0	1.0	1		10/30/14 23:07	179601-23-1	
o-Xylene	1.1	ug/L	1.0	0.50	1		10/30/14 23:07	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	126 %		70-130		1		10/30/14 23:07	1868-53-7	
Toluene-d8 (S)	102 %		70-130		1		10/30/14 23:07	2037-26-5	
4-Bromofluorobenzene (S)	91 %		59-130		1		10/30/14 23:07	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	134	mg/L	40.0	20.0	10		11/12/14 11:07	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	342	mg/L	20.0	7.5	1		11/10/14 10:31		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	9.6	mg/L	0.25	0.095	1		10/31/14 13:02		

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

**Sample: 102814013**      **Lab ID: 40106123013**      Collected: 10/28/14 14:39      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		10/31/14 11:44	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 14:29	7429-90-5	
Antimony, Dissolved	0.38J	ug/L	1.0	0.073	1	10/31/14 10:21	11/06/14 14:29	7440-36-0	
Copper, Dissolved	21.8	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 14:29	7440-50-8	
Iron, Dissolved	91.7J	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 14:29	7439-89-6	
Manganese, Dissolved	160	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 14:29	7439-96-5	
Nickel, Dissolved	2.8	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 14:29	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 14:29	7440-22-4	
Vanadium, Dissolved	0.46J	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 14:29	7440-62-2	
Zinc, Dissolved	6.0J	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 14:29	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.0080J	ug/L	0.056	0.0027	1	11/04/14 10:00	11/05/14 14:06	83-32-9	
Acenaphthylene	0.031J	ug/L	0.056	0.0023	1	11/04/14 10:00	11/05/14 14:06	208-96-8	
Anthracene	0.025J	ug/L	0.056	0.0028	1	11/04/14 10:00	11/05/14 14:06	120-12-7	
Benzo(a)anthracene	0.011J	ug/L	0.056	0.0023	1	11/04/14 10:00	11/05/14 14:06	56-55-3	B
Benzo(a)pyrene	0.012J	ug/L	0.056	0.0031	1	11/04/14 10:00	11/05/14 14:06	50-32-8	
Benzo(b)fluoranthene	0.013J	ug/L	0.056	0.0033	1	11/04/14 10:00	11/05/14 14:06	205-99-2	
Benzo(g,h,i)perylene	0.013J	ug/L	0.056	0.0037	1	11/04/14 10:00	11/05/14 14:06	191-24-2	
Benzo(k)fluoranthene	0.0065J	ug/L	0.056	0.0040	1	11/04/14 10:00	11/05/14 14:06	207-08-9	
Chrysene	0.011J	ug/L	0.056	0.0025	1	11/04/14 10:00	11/05/14 14:06	218-01-9	B
Dibenz(a,h)anthracene	0.0038J	ug/L	0.056	0.0038	1	11/04/14 10:00	11/05/14 14:06	53-70-3	
Fluoranthene	0.035J	ug/L	0.056	0.0027	1	11/04/14 10:00	11/05/14 14:06	206-44-0	
Fluorene	0.016J	ug/L	0.056	0.0025	1	11/04/14 10:00	11/05/14 14:06	86-73-7	
Indeno(1,2,3-cd)pyrene	0.010J	ug/L	0.056	0.0030	1	11/04/14 10:00	11/05/14 14:06	193-39-5	
1-Methylnaphthalene	0.0036J	ug/L	0.056	0.0023	1	11/04/14 10:00	11/05/14 14:06	90-12-0	
2-Methylnaphthalene	<0.0024	ug/L	0.056	0.0024	1	11/04/14 10:00	11/05/14 14:06	91-57-6	
Naphthalene	0.022J	ug/L	0.056	0.0049	1	11/04/14 10:00	11/05/14 14:06	91-20-3	
Phenanthrene	0.0092J	ug/L	0.056	0.0027	1	11/04/14 10:00	11/05/14 14:06	85-01-8	
Pyrene	0.026J	ug/L	0.056	0.0029	1	11/04/14 10:00	11/05/14 14:06	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	38	%	24-130		1	11/04/14 10:00	11/05/14 14:06	321-60-8	
Terphenyl-d14 (S)	146	%	44-169		1	11/04/14 10:00	11/05/14 14:06	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/14 23:30	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/14 23:30	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/14 23:30	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/14 23:30	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/14 23:30	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	129	%	70-130		1		10/30/14 23:30	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/30/14 23:30	2037-26-5	
4-Bromofluorobenzene (S)	87	%	59-130		1		10/30/14 23:30	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

Sample: 102814013      Lab ID: 40106123013      Collected: 10/28/14 14:39      Received: 10/29/14 10:20      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	90.8	mg/L	20.0	10.0	5		11/12/14 11:17	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	359	mg/L	20.0	7.5	1		11/10/14 10:32		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.16J	mg/L	0.25	0.095	1		10/31/14 13:03		

Sample: 102814014      Lab ID: 40106123014      Collected: 10/28/14 14:44      Received: 10/29/14 10:20      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		10/31/14 11:51	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 14:35	7429-90-5	
Antimony, Dissolved	0.40J	ug/L	1.0	0.073	1	10/31/14 10:21	11/06/14 14:35	7440-36-0	
Copper, Dissolved	3.5	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 14:35	7440-50-8	
Iron, Dissolved	78.7J	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 14:35	7439-89-6	
Manganese, Dissolved	160	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 14:35	7439-96-5	
Nickel, Dissolved	2.6	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 14:35	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 14:35	7440-22-4	
Vanadium, Dissolved	0.52J	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 14:35	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 14:35	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.013J	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 14:24	83-32-9	
Acenaphthylene	0.032J	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 14:24	208-96-8	
Anthracene	0.042J	ug/L	0.048	0.0024	1	11/04/14 10:00	11/05/14 14:24	120-12-7	
Benzo(a)anthracene	0.053	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 14:24	56-55-3	
Benzo(a)pyrene	0.042J	ug/L	0.048	0.0026	1	11/04/14 10:00	11/05/14 14:24	50-32-8	
Benzo(b)fluoranthene	0.046J	ug/L	0.048	0.0028	1	11/04/14 10:00	11/05/14 14:24	205-99-2	
Benzo(g,h,i)perylene	0.048J	ug/L	0.048	0.0032	1	11/04/14 10:00	11/05/14 14:24	191-24-2	
Benzo(k)fluoranthene	0.043J	ug/L	0.048	0.0034	1	11/04/14 10:00	11/05/14 14:24	207-08-9	
Chrysene	0.053	ug/L	0.048	0.0021	1	11/04/14 10:00	11/05/14 14:24	218-01-9	
Dibenz(a,h)anthracene	0.037J	ug/L	0.048	0.0032	1	11/04/14 10:00	11/05/14 14:24	53-70-3	
Fluoranthene	0.061	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 14:24	206-44-0	
Fluorene	0.019J	ug/L	0.048	0.0022	1	11/04/14 10:00	11/05/14 14:24	86-73-7	
Indeno(1,2,3-cd)pyrene	0.044J	ug/L	0.048	0.0026	1	11/04/14 10:00	11/05/14 14:24	193-39-5	
1-Methylnaphthalene	0.0057J	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 14:24	90-12-0	
2-Methylnaphthalene	0.0042J	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 14:24	91-57-6	
Naphthalene	0.015J	ug/L	0.048	0.0042	1	11/04/14 10:00	11/05/14 14:24	91-20-3	
Phenanthrene	0.018J	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 14:24	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

**Sample: 102814014**      **Lab ID: 40106123014**      Collected: 10/28/14 14:44      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Pyrene	0.055	ug/L	0.048	0.0024	1	11/04/14 10:00	11/05/14 14:24	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	36	%	24-130		1	11/04/14 10:00	11/05/14 14:24	321-60-8	
Terphenyl-d14 (S)	188	%	44-169		1	11/04/14 10:00	11/05/14 14:24	1718-51-0	1q,S0
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/14 23:53	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/14 23:53	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/14 23:53	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/14 23:53	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/14 23:53	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	127	%	70-130		1		10/30/14 23:53	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/30/14 23:53	2037-26-5	
4-Bromofluorobenzene (S)	88	%	59-130		1		10/30/14 23:53	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	102	mg/L	20.0	10.0	5		11/12/14 11:49	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	389	mg/L	20.0	7.5	1		11/10/14 10:32		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.19J	mg/L	0.25	0.095	1		10/31/14 13:04		

**Sample: 102814015**      **Lab ID: 40106123015**      Collected: 10/28/14 15:13      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	3.4	ug/L	2.8	1.4	1		10/31/14 11:58	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 14:53	7429-90-5	
Antimony, Dissolved	1.7	ug/L	1.0	0.073	1	10/31/14 10:21	11/06/14 14:53	7440-36-0	
Copper, Dissolved	0.92J	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 14:53	7440-50-8	
Iron, Dissolved	1980	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 14:53	7439-89-6	
Manganese, Dissolved	444	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 14:53	7439-96-5	
Nickel, Dissolved	0.49J	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 14:53	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 14:53	7440-22-4	
Vanadium, Dissolved	0.65J	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 14:53	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 14:53	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

**Sample: 102814015**      **Lab ID: 40106123015**      Collected: 10/28/14 15:13      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510							
Acenaphthene	<b>0.0069J</b>	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 14:43	83-32-9	
Acenaphthylene	<b>0.0041J</b>	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 14:43	208-96-8	
Anthracene	<b>0.024J</b>	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 14:43	120-12-7	
Benzo(a)anthracene	<b>0.079</b>	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 14:43	56-55-3	
Benzo(a)pyrene	<b>0.063</b>	ug/L	0.047	0.0026	1	11/04/14 10:00	11/05/14 14:43	50-32-8	
Benzo(b)fluoranthene	<b>0.071</b>	ug/L	0.047	0.0028	1	11/04/14 10:00	11/05/14 14:43	205-99-2	
Benzo(g,h,i)perylene	<b>0.064</b>	ug/L	0.047	0.0032	1	11/04/14 10:00	11/05/14 14:43	191-24-2	
Benzo(k)fluoranthene	<b>0.073</b>	ug/L	0.047	0.0034	1	11/04/14 10:00	11/05/14 14:43	207-08-9	
Chrysene	<b>0.089</b>	ug/L	0.047	0.0021	1	11/04/14 10:00	11/05/14 14:43	218-01-9	
Dibenz(a,h)anthracene	<b>0.066</b>	ug/L	0.047	0.0032	1	11/04/14 10:00	11/05/14 14:43	53-70-3	
Fluoranthene	<b>0.050</b>	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 14:43	206-44-0	
Fluorene	<b>0.0088J</b>	ug/L	0.047	0.0022	1	11/04/14 10:00	11/05/14 14:43	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.066</b>	ug/L	0.047	0.0025	1	11/04/14 10:00	11/05/14 14:43	193-39-5	
1-Methylnaphthalene	<b>0.0058J</b>	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 14:43	90-12-0	
2-Methylnaphthalene	<b>0.0072J</b>	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 14:43	91-57-6	
Naphthalene	<b>0.012J</b>	ug/L	0.047	0.0041	1	11/04/14 10:00	11/05/14 14:43	91-20-3	
Phenanthrene	<b>0.021J</b>	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 14:43	85-01-8	
Pyrene	<b>0.056</b>	ug/L	0.047	0.0024	1	11/04/14 10:00	11/05/14 14:43	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	41 %		24-130		1	11/04/14 10:00	11/05/14 14:43	321-60-8	
Terphenyl-d14 (S)	84 %		44-169		1	11/04/14 10:00	11/05/14 14:43	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	< <b>0.50</b>	ug/L	1.0	0.50	1		10/31/14 00:16	71-43-2	
Ethylbenzene	< <b>0.50</b>	ug/L	1.0	0.50	1		10/31/14 00:16	100-41-4	
Toluene	< <b>0.50</b>	ug/L	1.0	0.50	1		10/31/14 00:16	108-88-3	
m&p-Xylene	< <b>1.0</b>	ug/L	2.0	1.0	1		10/31/14 00:16	179601-23-1	
o-Xylene	< <b>0.50</b>	ug/L	1.0	0.50	1		10/31/14 00:16	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	127 %		70-130		1		10/31/14 00:16	1868-53-7	
Toluene-d8 (S)	101 %		70-130		1		10/31/14 00:16	2037-26-5	
4-Bromofluorobenzene (S)	87 %		59-130		1		10/31/14 00:16	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<b>59.0</b>	mg/L	20.0	10.0	5		11/12/14 11:59	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	<b>240</b>	mg/L	20.0	7.5	1		11/10/14 10:33		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	< <b>0.095</b>	mg/L	0.25	0.095	1		10/31/14 13:05		

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

Sample: 102814016 Lab ID: 40106123016 Collected: 10/28/14 16:03 Received: 10/29/14 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	102	ug/L	2.8	1.4	1		10/31/14 12:05	74-82-8	M1
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/04/14 21:58	7429-90-5	
Antimony, Dissolved	0.41J	ug/L	1.0	0.073	1	10/31/14 10:21	11/04/14 21:58	7440-36-0	
Copper, Dissolved	4.1	ug/L	1.0	0.26	1	10/31/14 10:21	11/04/14 21:58	7440-50-8	
Iron, Dissolved	933	ug/L	250	4.4	1	10/31/14 10:21	11/04/14 21:58	7439-89-6	
Manganese, Dissolved	920	ug/L	1.0	0.18	1	10/31/14 10:21	11/04/14 21:58	7439-96-5	
Nickel, Dissolved	3.2	ug/L	1.0	0.11	1	10/31/14 10:21	11/04/14 21:58	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/04/14 21:58	7440-22-4	
Vanadium, Dissolved	0.29J	ug/L	1.0	0.15	1	10/31/14 10:21	11/04/14 21:58	7440-62-2	
Zinc, Dissolved	3.7J	ug/L	10.0	3.1	1	10/31/14 10:21	11/04/14 21:58	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	0.030J	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 17:29	83-32-9	
Acenaphthylene	0.013J	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 17:29	208-96-8	
Anthracene	0.028J	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 17:29	120-12-7	
Benzo(a)anthracene	0.0056J	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 17:29	56-55-3	B
Benzo(a)pyrene	0.0066J	ug/L	0.047	0.0026	1	11/04/14 10:00	11/05/14 17:29	50-32-8	
Benzo(b)fluoranthene	0.011J	ug/L	0.047	0.0028	1	11/04/14 10:00	11/05/14 17:29	205-99-2	
Benzo(g,h,i)perylene	0.0095J	ug/L	0.047	0.0032	1	11/04/14 10:00	11/05/14 17:29	191-24-2	
Benzo(k)fluoranthene	0.0058J	ug/L	0.047	0.0034	1	11/04/14 10:00	11/05/14 17:29	207-08-9	
Chrysene	0.0082J	ug/L	0.047	0.0021	1	11/04/14 10:00	11/05/14 17:29	218-01-9	B
Dibenz(a,h)anthracene	<0.0032	ug/L	0.047	0.0032	1	11/04/14 10:00	11/05/14 17:29	53-70-3	
Fluoranthene	0.0094J	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 17:29	206-44-0	
Fluorene	0.0026J	ug/L	0.047	0.0022	1	11/04/14 10:00	11/05/14 17:29	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0075J	ug/L	0.047	0.0025	1	11/04/14 10:00	11/05/14 17:29	193-39-5	
1-Methylnaphthalene	0.0034J	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 17:29	90-12-0	
2-Methylnaphthalene	0.0031J	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 17:29	91-57-6	
Naphthalene	0.019J	ug/L	0.047	0.0041	1	11/04/14 10:00	11/05/14 17:29	91-20-3	
Phenanthrene	0.0033J	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 17:29	85-01-8	
Pyrene	0.023J	ug/L	0.047	0.0024	1	11/04/14 10:00	11/05/14 17:29	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	28	%	24-130		1	11/04/14 10:00	11/05/14 17:29	321-60-8	
Terphenyl-d14 (S)	72	%	44-169		1	11/04/14 10:00	11/05/14 17:29	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/14 18:29	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/14 18:29	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/14 18:29	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/14 18:29	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/14 18:29	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	120	%	70-130		1		10/30/14 18:29	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/30/14 18:29	2037-26-5	
4-Bromofluorobenzene (S)	90	%	59-130		1		10/30/14 18:29	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

Sample: 102814016      Lab ID: 40106123016      Collected: 10/28/14 16:03      Received: 10/29/14 10:20      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	159	mg/L	40.0	20.0	10		11/12/14 12:10	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	450	mg/L	100	37.5	5		11/10/14 10:34		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	1.1	mg/L	0.25	0.095	1		10/31/14 13:06		

Sample: 102814017      Lab ID: 40106123017      Collected: 10/28/14 16:39      Received: 10/29/14 10:20      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	31.8	ug/L	2.8	1.4	1		10/31/14 12:12	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 14:59	7429-90-5	
Antimony, Dissolved	3.4	ug/L	1.0	0.073	1	10/31/14 10:21	11/06/14 14:59	7440-36-0	
Copper, Dissolved	4.1	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 14:59	7440-50-8	
Iron, Dissolved	123J	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 14:59	7439-89-6	
Manganese, Dissolved	480	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 14:59	7439-96-5	
Nickel, Dissolved	1.7	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 14:59	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 14:59	7440-22-4	
Vanadium, Dissolved	4.1	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 14:59	7440-62-2	
Zinc, Dissolved	3.2J	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 14:59	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.0067J	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 15:01	83-32-9	
Acenaphthylene	0.050	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 15:01	208-96-8	
Anthracene	0.21	ug/L	0.048	0.0024	1	11/04/14 10:00	11/05/14 15:01	120-12-7	
Benzo(a)anthracene	0.019J	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 15:01	56-55-3	B
Benzo(a)pyrene	0.028J	ug/L	0.048	0.0026	1	11/04/14 10:00	11/05/14 15:01	50-32-8	
Benzo(b)fluoranthene	0.047J	ug/L	0.048	0.0028	1	11/04/14 10:00	11/05/14 15:01	205-99-2	
Benzo(g,h,i)perylene	0.034J	ug/L	0.048	0.0032	1	11/04/14 10:00	11/05/14 15:01	191-24-2	
Benzo(k)fluoranthene	0.019J	ug/L	0.048	0.0034	1	11/04/14 10:00	11/05/14 15:01	207-08-9	
Chrysene	0.031J	ug/L	0.048	0.0021	1	11/04/14 10:00	11/05/14 15:01	218-01-9	B
Dibenz(a,h)anthracene	0.0086J	ug/L	0.048	0.0032	1	11/04/14 10:00	11/05/14 15:01	53-70-3	
Fluoranthene	0.038J	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 15:01	206-44-0	
Fluorene	0.018J	ug/L	0.048	0.0022	1	11/04/14 10:00	11/05/14 15:01	86-73-7	
Indeno(1,2,3-cd)pyrene	0.030J	ug/L	0.048	0.0026	1	11/04/14 10:00	11/05/14 15:01	193-39-5	
1-Methylnaphthalene	<0.0020	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 15:01	90-12-0	
2-Methylnaphthalene	<0.0020	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 15:01	91-57-6	
Naphthalene	0.010J	ug/L	0.048	0.0042	1	11/04/14 10:00	11/05/14 15:01	91-20-3	
Phenanthrene	0.011J	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 15:01	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

**Sample: 102814017**      **Lab ID: 40106123017**      Collected: 10/28/14 16:39      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Pyrene	<b>0.036J</b>	ug/L	0.048	0.0024	1	11/04/14 10:00	11/05/14 15:01	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	35 %		24-130		1	11/04/14 10:00	11/05/14 15:01	321-60-8	
Terphenyl-d14 (S)	105 %		44-169		1	11/04/14 10:00	11/05/14 15:01	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>1.9</b>	ug/L	1.0	0.50	1		10/31/14 00:39	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/31/14 00:39	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/31/14 00:39	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/31/14 00:39	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/31/14 00:39	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	129 %		70-130		1		10/31/14 00:39	1868-53-7	
Toluene-d8 (S)	102 %		70-130		1		10/31/14 00:39	2037-26-5	
4-Bromofluorobenzene (S)	89 %		59-130		1		10/31/14 00:39	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>167</b>	mg/L	40.0	20.0	10		11/12/14 12:41	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>505</b>	mg/L	100	37.5	5		11/10/14 10:53		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>0.13J</b>	mg/L	0.25	0.095	1		10/31/14 13:11		

**Sample: 102814018**      **Lab ID: 40106123018**      Collected: 10/28/14 17:15      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>8160</b>	ug/L	140	68.5	50		10/31/14 13:58	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 15:05	7429-90-5	
Antimony, Dissolved	<b>1.1</b>	ug/L	1.0	0.073	1	10/31/14 10:21	11/06/14 15:05	7440-36-0	
Copper, Dissolved	<b>12.0</b>	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 15:05	7440-50-8	
Iron, Dissolved	<b>1310</b>	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 15:05	7439-89-6	
Manganese, Dissolved	<b>266</b>	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 15:05	7439-96-5	
Nickel, Dissolved	<b>3.1</b>	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 15:05	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 15:05	7440-22-4	
Vanadium, Dissolved	<b>2.5</b>	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 15:05	7440-62-2	
Zinc, Dissolved	<b>32.2</b>	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 15:05	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

**Sample: 102814018**      **Lab ID: 40106123018**      Collected: 10/28/14 17:15      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	<b>0.0069J</b>	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 15:20	83-32-9	
Acenaphthylene	<b>0.014J</b>	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 15:20	208-96-8	
Anthracene	<b>0.051</b>	ug/L	0.048	0.0024	1	11/04/14 10:00	11/05/14 15:20	120-12-7	
Benzo(a)anthracene	<b>0.011J</b>	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 15:20	56-55-3	B
Benzo(a)pyrene	<b>0.014J</b>	ug/L	0.048	0.0026	1	11/04/14 10:00	11/05/14 15:20	50-32-8	
Benzo(b)fluoranthene	<b>0.025J</b>	ug/L	0.048	0.0028	1	11/04/14 10:00	11/05/14 15:20	205-99-2	
Benzo(g,h,i)perylene	<b>0.016J</b>	ug/L	0.048	0.0032	1	11/04/14 10:00	11/05/14 15:20	191-24-2	
Benzo(k)fluoranthene	<b>0.010J</b>	ug/L	0.048	0.0034	1	11/04/14 10:00	11/05/14 15:20	207-08-9	
Chrysene	<b>0.020J</b>	ug/L	0.048	0.0021	1	11/04/14 10:00	11/05/14 15:20	218-01-9	B
Dibenz(a,h)anthracene	<b>0.0035J</b>	ug/L	0.048	0.0032	1	11/04/14 10:00	11/05/14 15:20	53-70-3	
Fluoranthene	<b>0.032J</b>	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 15:20	206-44-0	
Fluorene	<b>0.013J</b>	ug/L	0.048	0.0022	1	11/04/14 10:00	11/05/14 15:20	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.013J</b>	ug/L	0.048	0.0026	1	11/04/14 10:00	11/05/14 15:20	193-39-5	
1-Methylnaphthalene	<b>0.0027J</b>	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 15:20	90-12-0	
2-Methylnaphthalene	<b>0.0028J</b>	ug/L	0.048	0.0020	1	11/04/14 10:00	11/05/14 15:20	91-57-6	
Naphthalene	<b>0.0080J</b>	ug/L	0.048	0.0042	1	11/04/14 10:00	11/05/14 15:20	91-20-3	
Phenanthrene	<b>0.0077J</b>	ug/L	0.048	0.0023	1	11/04/14 10:00	11/05/14 15:20	85-01-8	
Pyrene	<b>0.030J</b>	ug/L	0.048	0.0024	1	11/04/14 10:00	11/05/14 15:20	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	36 %		24-130		1	11/04/14 10:00	11/05/14 15:20	321-60-8	
Terphenyl-d14 (S)	82 %		44-169		1	11/04/14 10:00	11/05/14 15:20	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	< <b>0.50</b>	ug/L	1.0	0.50	1		10/31/14 01:02	71-43-2	
Ethylbenzene	< <b>0.50</b>	ug/L	1.0	0.50	1		10/31/14 01:02	100-41-4	
Toluene	< <b>0.50</b>	ug/L	1.0	0.50	1		10/31/14 01:02	108-88-3	
m&p-Xylene	< <b>1.0</b>	ug/L	2.0	1.0	1		10/31/14 01:02	179601-23-1	
o-Xylene	< <b>0.50</b>	ug/L	1.0	0.50	1		10/31/14 01:02	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	127 %		70-130		1		10/31/14 01:02	1868-53-7	
Toluene-d8 (S)	103 %		70-130		1		10/31/14 01:02	2037-26-5	
4-Bromofluorobenzene (S)	89 %		59-130		1		10/31/14 01:02	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>41.5</b>	mg/L	4.0	2.0	1		11/12/14 01:26	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub>	<b>335</b>	mg/L	20.0	7.5	1		11/10/14 10:36		
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO <sub>2</sub> plus NO <sub>3</sub>	<b>6.3</b>	mg/L	0.25	0.095	1		10/31/14 13:12		

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

**Sample: 102814019**      **Lab ID: 40106123019**      Collected: 10/28/14 17:51      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	176	ug/L	2.8	1.4	1		10/31/14 12:26	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 15:11	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	10/31/14 10:21	11/06/14 15:11	7440-36-0	
Copper, Dissolved	0.56J	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 15:11	7440-50-8	
Iron, Dissolved	6890	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 15:11	7439-89-6	
Manganese, Dissolved	815	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 15:11	7439-96-5	
Nickel, Dissolved	0.92J	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 15:11	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 15:11	7440-22-4	
Vanadium, Dissolved	6.2	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 15:11	7440-62-2	
Zinc, Dissolved	3.3J	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 15:11	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	6.7	ug/L	0.47	0.023	10	11/04/14 10:00	11/05/14 15:38	83-32-9	
Acenaphthylene	0.37J	ug/L	0.47	0.020	10	11/04/14 10:00	11/05/14 15:38	208-96-8	
Anthracene	0.097J	ug/L	0.47	0.023	10	11/04/14 10:00	11/05/14 15:38	120-12-7	
Benzo(a)anthracene	0.035J	ug/L	0.47	0.020	10	11/04/14 10:00	11/05/14 15:38	56-55-3	B
Benzo(a)pyrene	<0.026	ug/L	0.47	0.026	10	11/04/14 10:00	11/05/14 15:38	50-32-8	
Benzo(b)fluoranthene	<0.028	ug/L	0.47	0.028	10	11/04/14 10:00	11/05/14 15:38	205-99-2	
Benzo(g,h,i)perylene	<0.032	ug/L	0.47	0.032	10	11/04/14 10:00	11/05/14 15:38	191-24-2	
Benzo(k)fluoranthene	<0.034	ug/L	0.47	0.034	10	11/04/14 10:00	11/05/14 15:38	207-08-9	
Chrysene	0.036J	ug/L	0.47	0.021	10	11/04/14 10:00	11/05/14 15:38	218-01-9	B
Dibenz(a,h)anthracene	<0.032	ug/L	0.47	0.032	10	11/04/14 10:00	11/05/14 15:38	53-70-3	
Fluoranthene	1.1	ug/L	0.47	0.023	10	11/04/14 10:00	11/05/14 15:38	206-44-0	
Fluorene	0.20J	ug/L	0.47	0.022	10	11/04/14 10:00	11/05/14 15:38	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.025	ug/L	0.47	0.025	10	11/04/14 10:00	11/05/14 15:38	193-39-5	
1-Methylnaphthalene	0.045J	ug/L	0.47	0.020	10	11/04/14 10:00	11/05/14 15:38	90-12-0	
2-Methylnaphthalene	<0.020	ug/L	0.47	0.020	10	11/04/14 10:00	11/05/14 15:38	91-57-6	
Naphthalene	0.092J	ug/L	0.47	0.041	10	11/04/14 10:00	11/05/14 15:38	91-20-3	
Phenanthrene	0.074J	ug/L	0.47	0.023	10	11/04/14 10:00	11/05/14 15:38	85-01-8	
Pyrene	0.94	ug/L	0.47	0.024	10	11/04/14 10:00	11/05/14 15:38	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	40	%	24-130		10	11/04/14 10:00	11/05/14 15:38	321-60-8	
Terphenyl-d14 (S)	77	%	44-169		10	11/04/14 10:00	11/05/14 15:38	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/31/14 01:25	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/31/14 01:25	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/31/14 01:25	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/31/14 01:25	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/31/14 01:25	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	126	%	70-130		1		10/31/14 01:25	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/31/14 01:25	2037-26-5	
4-Bromofluorobenzene (S)	88	%	59-130		1		10/31/14 01:25	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

Sample: 102814019      Lab ID: 40106123019      Collected: 10/28/14 17:51      Received: 10/29/14 10:20      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	22.8	mg/L	20.0	10.0	5		11/12/14 01:36	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	389	mg/L	100	37.5	5		11/10/14 10:54		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		10/31/14 13:12		

Sample: 102814020      Lab ID: 40106123020      Collected: 10/28/14 18:26      Received: 10/29/14 10:20      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	15.8	ug/L	2.8	1.4	1		10/31/14 12:33	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/31/14 10:21	11/06/14 15:18	7429-90-5	
Antimony, Dissolved	0.16J	ug/L	1.0	0.073	1	10/31/14 10:21	11/06/14 15:18	7440-36-0	
Copper, Dissolved	2.8	ug/L	1.0	0.26	1	10/31/14 10:21	11/06/14 15:18	7440-50-8	
Iron, Dissolved	5390	ug/L	250	4.4	1	10/31/14 10:21	11/06/14 15:18	7439-89-6	
Manganese, Dissolved	2210	ug/L	1.0	0.18	1	10/31/14 10:21	11/06/14 15:18	7439-96-5	
Nickel, Dissolved	11.5	ug/L	1.0	0.11	1	10/31/14 10:21	11/06/14 15:18	7440-02-0	
Silver, Dissolved	0.020J	ug/L	0.50	0.016	1	10/31/14 10:21	11/06/14 15:18	7440-22-4	
Vanadium, Dissolved	1.4	ug/L	1.0	0.15	1	10/31/14 10:21	11/06/14 15:18	7440-62-2	
Zinc, Dissolved	195	ug/L	10.0	3.1	1	10/31/14 10:21	11/06/14 15:18	7440-66-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	0.0045J	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 15:56	83-32-9	
Acenaphthylene	<0.0020	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 15:56	208-96-8	
Anthracene	0.0046J	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 15:56	120-12-7	
Benzo(a)anthracene	0.0044J	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 15:56	56-55-3	B
Benzo(a)pyrene	0.0042J	ug/L	0.047	0.0026	1	11/04/14 10:00	11/05/14 15:56	50-32-8	
Benzo(b)fluoranthene	0.0059J	ug/L	0.047	0.0028	1	11/04/14 10:00	11/05/14 15:56	205-99-2	
Benzo(g,h,i)perylene	0.0049J	ug/L	0.047	0.0032	1	11/04/14 10:00	11/05/14 15:56	191-24-2	
Benzo(k)fluoranthene	0.0035J	ug/L	0.047	0.0034	1	11/04/14 10:00	11/05/14 15:56	207-08-9	
Chrysene	0.0060J	ug/L	0.047	0.0021	1	11/04/14 10:00	11/05/14 15:56	218-01-9	B
Dibenz(a,h)anthracene	<0.0032	ug/L	0.047	0.0032	1	11/04/14 10:00	11/05/14 15:56	53-70-3	
Fluoranthene	0.0056J	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 15:56	206-44-0	
Fluorene	<0.0022	ug/L	0.047	0.0022	1	11/04/14 10:00	11/05/14 15:56	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0041J	ug/L	0.047	0.0025	1	11/04/14 10:00	11/05/14 15:56	193-39-5	
1-Methylnaphthalene	0.0042J	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 15:56	90-12-0	
2-Methylnaphthalene	0.0031J	ug/L	0.047	0.0020	1	11/04/14 10:00	11/05/14 15:56	91-57-6	
Naphthalene	0.0091J	ug/L	0.047	0.0041	1	11/04/14 10:00	11/05/14 15:56	91-20-3	
Phenanthrene	0.0043J	ug/L	0.047	0.0023	1	11/04/14 10:00	11/05/14 15:56	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

**Sample: 102814020**      **Lab ID: 40106123020**      Collected: 10/28/14 18:26      Received: 10/29/14 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510							
Pyrene	<b>0.0072J</b>	ug/L	0.047	0.0024	1	11/04/14 10:00	11/05/14 15:56	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	38 %		24-130		1	11/04/14 10:00	11/05/14 15:56	321-60-8	
Terphenyl-d14 (S)	90 %		44-169		1	11/04/14 10:00	11/05/14 15:56	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/31/14 01:48	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/31/14 01:48	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/31/14 01:48	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/31/14 01:48	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/31/14 01:48	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	127 %		70-130		1		10/31/14 01:48	1868-53-7	
Toluene-d8 (S)	102 %		70-130		1		10/31/14 01:48	2037-26-5	
4-Bromofluorobenzene (S)	87 %		59-130		1		10/31/14 01:48	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<b>248</b>	mg/L	20.0	10.0	5		11/12/14 01:47	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	<b>578</b>	mg/L	100	37.5	5		11/10/14 10:55		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		10/31/14 13:13		

**Sample information not related to current property and therefore not shared.**

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### QUALITY CONTROL DATA

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

QC Batch:	GCV/13466	Analysis Method:	EPA 8015B Modified
QC Batch Method:	EPA 8015B Modified	Analysis Description:	Methane, Ethane, Ethene GCV
Associated Lab Samples:	40106123001, 40106123002, 40106123003, 40106123004, 40106123005, 40106123006, 40106123007, 40106123008, 40106123009, 40106123010, 40106123011, 40106123012, 40106123013, 40106123014, 40106123015, 40106123016, 40106123017, 40106123018, 40106123019, 40106123020		

METHOD BLANK:	1073631	Matrix:	Water
Associated Lab Samples:	40106123001, 40106123002, 40106123003, 40106123004, 40106123005, 40106123006, 40106123007, 40106123008, 40106123009, 40106123010, 40106123011, 40106123012, 40106123013, 40106123014, 40106123015, 40106123016, 40106123017, 40106123018, 40106123019, 40106123020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<1.4	2.8	10/31/14 09:48	

LABORATORY CONTROL SAMPLE & LCSD:	1073632	1073633									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Methane	ug/L	28.6	25.7	27.0	90	95	77-120	5	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	1073634	1073635										
Parameter	Units	40106123016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	102	28.6	28.6	118	121	57	67	63-129	2	20	M1

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### QUALITY CONTROL DATA

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

QC Batch: MPRP/11033 Analysis Method: EPA 6020  
 QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
 Associated Lab Samples: 40106123001, 40106123002, 40106123003, 40106123004, 40106123005, 40106123006, 40106123007, 40106123008, 40106123009, 40106123010, 40106123011, 40106123012, 40106123013, 40106123014, 40106123015, 40106123016, 40106123017, 40106123018, 40106123019, 40106123020

METHOD BLANK: 1073700 Matrix: Water  
 Associated Lab Samples: 40106123001, 40106123002, 40106123003, 40106123004, 40106123005, 40106123006, 40106123007, 40106123008, 40106123009, 40106123010, 40106123011, 40106123012, 40106123013, 40106123014, 40106123015, 40106123016, 40106123017, 40106123018, 40106123019, 40106123020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<68.7	250	11/04/14 21:39	
Antimony, Dissolved	ug/L	<0.073	1.0	11/04/14 21:39	
Copper, Dissolved	ug/L	<0.26	1.0	11/04/14 21:39	
Iron, Dissolved	ug/L	<4.4	250	11/04/14 21:39	
Manganese, Dissolved	ug/L	<0.18	1.0	11/04/14 21:39	
Nickel, Dissolved	ug/L	<0.11	1.0	11/04/14 21:39	
Silver, Dissolved	ug/L	<0.016	0.50	11/04/14 21:39	
Vanadium, Dissolved	ug/L	<0.15	1.0	11/04/14 21:39	
Zinc, Dissolved	ug/L	<3.1	10.0	11/04/14 21:39	

LABORATORY CONTROL SAMPLE: 1073701

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	4860	97	80-120	
Antimony, Dissolved	ug/L	500	524	105	80-120	
Copper, Dissolved	ug/L	500	476	95	80-120	
Iron, Dissolved	ug/L	5000	4920	98	80-120	
Manganese, Dissolved	ug/L	500	497	99	80-120	
Nickel, Dissolved	ug/L	500	471	94	80-120	
Silver, Dissolved	ug/L	250	243	97	80-120	
Vanadium, Dissolved	ug/L	500	484	97	80-120	
Zinc, Dissolved	ug/L	500	505	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1073702 1073703

Parameter	Units	40106123016 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Aluminum, Dissolved	ug/L	<68.7	5000	5000	4520	4510	90	90	75-125	0	20	
Antimony, Dissolved	ug/L	0.41J	500	500	506	509	101	102	75-125	1	20	
Copper, Dissolved	ug/L	4.1	500	500	435	440	86	87	75-125	1	20	
Iron, Dissolved	ug/L	933	5000	5000	5480	5520	91	92	75-125	1	20	
Manganese, Dissolved	ug/L	920	500	500	1380	1380	93	93	75-125	0	20	
Nickel, Dissolved	ug/L	3.2	500	500	433	436	86	87	75-125	1	20	
Silver, Dissolved	ug/L	<0.016	250	250	216	218	86	87	75-125	1	20	
Vanadium, Dissolved	ug/L	0.29J	500	500	471	472	94	94	75-125	0	20	

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### QUALITY CONTROL DATA

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

		MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1073702			1073703							
Parameter	Units	40106123016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Zinc, Dissolved	ug/L	3.7J	500	500	472	477	94	95	75-125	1	20	

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### QUALITY CONTROL DATA

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

QC Batch: MSV/26337

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV UST-WATER

Associated Lab Samples: 40106123021

METHOD BLANK: 1072499

Matrix: Water

Associated Lab Samples: 40106123021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	10/30/14 06:53	
Ethylbenzene	ug/L	<0.50	1.0	10/30/14 06:53	
m&p-Xylene	ug/L	<1.0	2.0	10/30/14 06:53	
o-Xylene	ug/L	<0.50	1.0	10/30/14 06:53	
Toluene	ug/L	<0.50	1.0	10/30/14 06:53	
4-Bromofluorobenzene (S)	%	99	59-130	10/30/14 06:53	
Dibromofluoromethane (S)	%	111	70-130	10/30/14 06:53	
Toluene-d8 (S)	%	107	70-130	10/30/14 06:53	

LABORATORY CONTROL SAMPLE & LCSD: 1072500

1072501

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	54.5	58.3	109	117	70-130	7	20	
Ethylbenzene	ug/L	50	53.7	56.9	107	114	70-130	6	20	
m&p-Xylene	ug/L	100	108	112	108	112	70-131	4	20	
o-Xylene	ug/L	50	52.4	54.6	105	109	70-130	4	20	
Toluene	ug/L	50	52.7	56.6	105	113	70-130	7	20	
4-Bromofluorobenzene (S)	%				103	103	59-130			
Dibromofluoromethane (S)	%				116	118	70-130			
Toluene-d8 (S)	%				107	106	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1072752

1072753

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40106082005 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	<1.0	50	50	56.2	57.1	112	114	70-130	1	20
Ethylbenzene	ug/L	<1.0	50	50	56.0	56.1	112	112	70-130	0	20
m&p-Xylene	ug/L	<2.0	100	100	111	111	110	111	70-135	1	20
o-Xylene	ug/L	<1.0	50	50	54.1	55.1	108	110	70-130	2	20
Toluene	ug/L	<1.0	50	50	54.5	54.6	109	109	70-130	0	20
4-Bromofluorobenzene (S)	%						105	104	59-130		
Dibromofluoromethane (S)	%						117	118	70-130		
Toluene-d8 (S)	%						106	106	70-130		

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### QUALITY CONTROL DATA

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

QC Batch:	MSV/26338	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Samples:	40106123001, 40106123002, 40106123003, 40106123004, 40106123005, 40106123006, 40106123007, 40106123008, 40106123009, 40106123010, 40106123011, 40106123012, 40106123013, 40106123014, 40106123015, 40106123016, 40106123017, 40106123018, 40106123019, 40106123020		

METHOD BLANK:	1072502	Matrix:	Water
Associated Lab Samples:	40106123001, 40106123002, 40106123003, 40106123004, 40106123005, 40106123006, 40106123007, 40106123008, 40106123009, 40106123010, 40106123011, 40106123012, 40106123013, 40106123014, 40106123015, 40106123016, 40106123017, 40106123018, 40106123019, 40106123020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	10/30/14 16:34	
Ethylbenzene	ug/L	<0.50	1.0	10/30/14 16:34	
m&p-Xylene	ug/L	<1.0	2.0	10/30/14 16:34	
o-Xylene	ug/L	<0.50	1.0	10/30/14 16:34	
Toluene	ug/L	<0.50	1.0	10/30/14 16:34	
4-Bromofluorobenzene (S)	%	88	59-130	10/30/14 16:34	
Dibromofluoromethane (S)	%	122	70-130	10/30/14 16:34	
Toluene-d8 (S)	%	102	70-130	10/30/14 16:34	

Parameter	Units	1072503		1072504		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCSD Result				
Benzene	ug/L	50	60.5	59.0	121	118	70-130	2	20
Ethylbenzene	ug/L	50	60.7	59.0	121	118	70-130	3	20
m&p-Xylene	ug/L	100	121	117	121	117	70-131	4	20
o-Xylene	ug/L	50	57.8	56.2	116	112	70-130	3	20
Toluene	ug/L	50	61.0	58.9	122	118	70-130	4	20
4-Bromofluorobenzene (S)	%				107	105	59-130		
Dibromofluoromethane (S)	%				107	108	70-130		
Toluene-d8 (S)	%				105	105	70-130		

Parameter	Units	1072505		1072506		% Rec Limits	RPD	Max RPD	Qual		
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Benzene	ug/L	<0.50	50	50	57.4	59.8	115	120	70-130	4	20
Ethylbenzene	ug/L	<0.50	50	50	56.7	58.7	113	117	70-130	4	20
m&p-Xylene	ug/L	<1.0	100	100	112	117	112	117	70-135	4	20
o-Xylene	ug/L	<0.50	50	50	54.1	55.9	108	112	70-130	3	20
Toluene	ug/L	<0.50	50	50	56.8	59.0	113	118	70-130	4	20
4-Bromofluorobenzene (S)	%						106	107	59-130		
Dibromofluoromethane (S)	%						108	109	70-130		
Toluene-d8 (S)	%						104	107	70-130		

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### QUALITY CONTROL DATA

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

QC Batch: OEXT/24912 Analysis Method: EPA 8270 by SIM  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV  
 Associated Lab Samples: 40106123001, 40106123002, 40106123003, 40106123004, 40106123005, 40106123006, 40106123007

METHOD BLANK: 1072663 Matrix: Water  
 Associated Lab Samples: 40106123001, 40106123002, 40106123003, 40106123004, 40106123005, 40106123006, 40106123007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.0022J	0.050	10/31/14 09:58	
2-Methylnaphthalene	ug/L	<0.0021	0.050	10/31/14 09:58	
Acenaphthene	ug/L	<0.0024	0.050	10/31/14 09:58	
Acenaphthylene	ug/L	<0.0021	0.050	10/31/14 09:58	
Anthracene	ug/L	<0.0025	0.050	10/31/14 09:58	
Benzo(a)anthracene	ug/L	<0.0021	0.050	10/31/14 09:58	
Benzo(a)pyrene	ug/L	<0.0028	0.050	10/31/14 09:58	
Benzo(b)fluoranthene	ug/L	<0.0030	0.050	10/31/14 09:58	
Benzo(g,h,i)perylene	ug/L	<0.0034	0.050	10/31/14 09:58	
Benzo(k)fluoranthene	ug/L	<0.0036	0.050	10/31/14 09:58	
Chrysene	ug/L	<0.0022	0.050	10/31/14 09:58	
Dibenz(a,h)anthracene	ug/L	<0.0034	0.050	10/31/14 09:58	
Fluoranthene	ug/L	<0.0024	0.050	10/31/14 09:58	
Fluorene	ug/L	<0.0023	0.050	10/31/14 09:58	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0027	0.050	10/31/14 09:58	
Naphthalene	ug/L	0.0073J	0.050	10/31/14 09:58	
Phenanthrene	ug/L	0.0057J	0.050	10/31/14 09:58	
Pyrene	ug/L	<0.0026	0.050	10/31/14 09:58	
2-Fluorobiphenyl (S)	%	43	24-130	10/31/14 09:58	
Terphenyl-d14 (S)	%	66	44-169	10/31/14 09:58	

LABORATORY CONTROL SAMPLE: 1072664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.11	55	35-130	
2-Methylnaphthalene	ug/L	.2	0.11	56	32-130	
Acenaphthene	ug/L	.2	0.12	58	30-130	
Acenaphthylene	ug/L	.2	0.11	54	28-130	
Anthracene	ug/L	.2	0.12	62	22-130	
Benzo(a)anthracene	ug/L	.2	0.15	74	40-130	
Benzo(a)pyrene	ug/L	.2	0.17	84	51-130	
Benzo(b)fluoranthene	ug/L	.2	0.17	87	45-130	
Benzo(g,h,i)perylene	ug/L	.2	0.18	91	59-130	
Benzo(k)fluoranthene	ug/L	.2	0.20	100	60-130	
Chrysene	ug/L	.2	0.22	110	62-130	
Dibenz(a,h)anthracene	ug/L	.2	0.17	87	51-130	
Fluoranthene	ug/L	.2	0.14	71	43-130	
Fluorene	ug/L	.2	0.11	54	29-130	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.18	92	56-130	
Naphthalene	ug/L	.2	0.12	60	30-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

LABORATORY CONTROL SAMPLE: 1072664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	.2	0.13	66	29-130	
Pyrene	ug/L	.2	0.16	80	38-130	
2-Fluorobiphenyl (S)	%			47	24-130	
Terphenyl-d14 (S)	%			91	44-169	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1072665 1072666

Parameter	Units	1072665		1072666		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
1-Methylnaphthalene	ug/L	0.067	.38	.38	0.28	0.30	55	61	10-130	7	50	
2-Methylnaphthalene	ug/L	0.028J	.38	.38	0.25	0.26	57	61	10-130	6	50	
Acenaphthene	ug/L	0.020J	.38	.38	0.24	0.25	56	59	10-130	5	50	
Acenaphthylene	ug/L	0.15	.38	.38	0.36	0.34	56	51	10-130	6	50	
Anthracene	ug/L	0.035J	.38	.38	0.25	0.26	57	59	10-130	3	45	
Benzo(a)anthracene	ug/L	0.061	.38	.38	0.44	0.33	99	71	22-130	28	21	R1
Benzo(a)pyrene	ug/L	0.067	.38	.38	0.45	0.35	99	73	40-130	25	20	R1
Benzo(b)fluoranthene	ug/L	0.10	.38	.38	0.50	0.37	103	70	23-130	29	23	R1
Benzo(g,h,i)perylene	ug/L	0.058	.38	.38	0.46	0.38	104	83	30-130	20	21	
Benzo(k)fluoranthene	ug/L	0.051	.38	.38	0.45	0.36	104	82	50-130	21	20	R1
Chrysene	ug/L	0.089	.38	.38	0.55	0.43	120	88	32-147	25	20	R1
Dibenz(a,h)anthracene	ug/L	0.012J	.38	.38	0.39	0.34	99	86	14-130	14	26	
Fluoranthene	ug/L	0.089	.38	.38	0.42	0.34	85	65	37-130	21	30	
Fluorene	ug/L	0.015J	.38	.38	0.22	0.22	54	54	10-130	0	50	
Indeno(1,2,3-cd)pyrene	ug/L	0.046J	.38	.38	0.45	0.38	106	88	27-130	16	23	
Naphthalene	ug/L	0.52	.38	.38	0.71	0.73	48	54	10-130	3	50	
Phenanthrene	ug/L	0.025J	.38	.38	0.27	0.26	63	62	13-130	1	50	
Pyrene	ug/L	0.094	.38	.38	0.48	0.40	101	79	34-130	19	32	
2-Fluorobiphenyl (S)	%						43	45	24-130			
Terphenyl-d14 (S)	%						107	79	44-169			

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### QUALITY CONTROL DATA

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

QC Batch: OEXT/24989 Analysis Method: EPA 8270 by SIM  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV  
 Associated Lab Samples: 40106123008, 40106123009, 40106123010, 40106123011, 40106123012, 40106123013, 40106123014,  
 40106123015, 40106123016, 40106123017, 40106123018, 40106123019, 40106123020

METHOD BLANK: 1075487 Matrix: Water  
 Associated Lab Samples: 40106123008, 40106123009, 40106123010, 40106123011, 40106123012, 40106123013, 40106123014,  
 40106123015, 40106123016, 40106123017, 40106123018, 40106123019, 40106123020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0021	0.050	11/05/14 11:56	
2-Methylnaphthalene	ug/L	<0.0021	0.050	11/05/14 11:56	
Acenaphthene	ug/L	<0.0024	0.050	11/05/14 11:56	
Acenaphthylene	ug/L	<0.0021	0.050	11/05/14 11:56	
Anthracene	ug/L	<0.0025	0.050	11/05/14 11:56	
Benzo(a)anthracene	ug/L	0.0028J	0.050	11/05/14 11:56	
Benzo(a)pyrene	ug/L	<0.0028	0.050	11/05/14 11:56	
Benzo(b)fluoranthene	ug/L	<0.0030	0.050	11/05/14 11:56	
Benzo(g,h,i)perylene	ug/L	<0.0034	0.050	11/05/14 11:56	
Benzo(k)fluoranthene	ug/L	<0.0036	0.050	11/05/14 11:56	
Chrysene	ug/L	0.0031J	0.050	11/05/14 11:56	
Dibenz(a,h)anthracene	ug/L	<0.0034	0.050	11/05/14 11:56	
Fluoranthene	ug/L	<0.0024	0.050	11/05/14 11:56	
Fluorene	ug/L	<0.0023	0.050	11/05/14 11:56	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0027	0.050	11/05/14 11:56	
Naphthalene	ug/L	<0.0044	0.050	11/05/14 11:56	
Phenanthrene	ug/L	<0.0024	0.050	11/05/14 11:56	
Pyrene	ug/L	<0.0026	0.050	11/05/14 11:56	
2-Fluorobiphenyl (S)	%	55	24-130	11/05/14 11:56	
Terphenyl-d14 (S)	%	76	44-169	11/05/14 11:56	

LABORATORY CONTROL SAMPLE: 1075488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.10	51	35-130	
2-Methylnaphthalene	ug/L	.2	0.10	52	32-130	
Acenaphthene	ug/L	.2	0.10	52	30-130	
Acenaphthylene	ug/L	.2	0.11	54	28-130	
Anthracene	ug/L	.2	0.13	67	22-130	
Benzo(a)anthracene	ug/L	.2	0.16	82	40-130	
Benzo(a)pyrene	ug/L	.2	0.16	81	51-130	
Benzo(b)fluoranthene	ug/L	.2	0.16	82	45-130	
Benzo(g,h,i)perylene	ug/L	.2	0.16	80	59-130	
Benzo(k)fluoranthene	ug/L	.2	0.17	83	60-130	
Chrysene	ug/L	.2	0.18	91	62-130	
Dibenz(a,h)anthracene	ug/L	.2	0.17	83	51-130	
Fluoranthene	ug/L	.2	0.15	76	43-130	
Fluorene	ug/L	.2	0.11	54	29-130	

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### QUALITY CONTROL DATA

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

LABORATORY CONTROL SAMPLE: 1075488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.17	87	56-130	
Naphthalene	ug/L	.2	0.10	52	30-130	
Phenanthrene	ug/L	.2	0.14	68	29-130	
Pyrene	ug/L	.2	0.17	83	38-130	
2-Fluorobiphenyl (S)	%			49	24-130	
Terphenyl-d14 (S)	%			83	44-169	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1075489 1075490

Parameter	Units	40106123016		MSD		MSD		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1-Methylnaphthalene	ug/L	0.0034J	.19	.19	0.080	0.080	40	40	10-130	0	50		
2-Methylnaphthalene	ug/L	0.0031J	.19	.19	0.082	0.082	41	41	10-130	0	50		
Acenaphthene	ug/L	0.030J	.19	.19	0.11	0.10	44	38	10-130	11	50		
Acenaphthylene	ug/L	0.013J	.19	.19	0.096	0.094	44	43	10-130	2	50		
Anthracene	ug/L	0.028J	.19	.19	0.14	0.15	61	62	10-130	2	45		
Benzo(a)anthracene	ug/L	0.0056J	.19	.19	0.16	0.17	83	85	22-130	3	21		
Benzo(a)pyrene	ug/L	0.0066J	.19	.19	0.15	0.16	76	81	40-130	6	20		
Benzo(b)fluoranthene	ug/L	0.011J	.19	.19	0.15	0.17	74	81	23-130	9	23		
Benzo(g,h,i)perylene	ug/L	0.0095J	.19	.19	0.15	0.17	76	84	30-130	10	21		
Benzo(k)fluoranthene	ug/L	0.0058J	.19	.19	0.14	0.15	72	78	50-130	8	20		
Chrysene	ug/L	0.0082J	.19	.19	0.17	0.18	85	91	32-147	7	20		
Dibenz(a,h)anthracene	ug/L	<0.0032	.19	.19	0.15	0.15	75	79	14-130	5	26		
Fluoranthene	ug/L	0.0094J	.19	.19	0.15	0.15	74	75	37-130	2	30		
Fluorene	ug/L	0.0026J	.19	.19	0.086	0.082	44	42	10-130	5	50		
Indeno(1,2,3-cd)pyrene	ug/L	0.0075J	.19	.19	0.16	0.17	79	87	27-130	9	23		
Naphthalene	ug/L	0.019J	.19	.19	0.085	0.083	35	34	10-130	3	50		
Phenanthrene	ug/L	0.0033J	.19	.19	0.12	0.11	59	55	13-130	7	50		
Pyrene	ug/L	0.023J	.19	.19	0.18	0.18	81	84	34-130	3	32		
2-Fluorobiphenyl (S)	%						38	33	24-130				
Terphenyl-d14 (S)	%						77	79	44-169				

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### QUALITY CONTROL DATA

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

QC Batch:	WETA/26100	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	40106123001, 40106123002, 40106123003, 40106123004, 40106123005, 40106123006, 40106123007, 40106123008, 40106123009, 40106123010, 40106123011, 40106123012, 40106123013, 40106123014, 40106123015, 40106123016, 40106123017, 40106123018, 40106123019, 40106123020		

METHOD BLANK:	1079751	Matrix:	Water
Associated Lab Samples:	40106123001, 40106123002, 40106123003, 40106123004, 40106123005, 40106123006, 40106123007, 40106123008, 40106123009, 40106123010, 40106123011, 40106123012, 40106123013, 40106123014, 40106123015, 40106123016, 40106123017, 40106123018, 40106123019, 40106123020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	4.0	11/11/14 20:41	

LABORATORY CONTROL SAMPLE: 1079752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1079753 1079754

Parameter	Units	40106123001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	35.4	20	20	57.9	57.8	112	112	90-110	0	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1079755 1079756

Parameter	Units	40106123016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	159	200	200	356	357	99	99	90-110	0	20	

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**QUALITY CONTROL DATA**

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

QC Batch: WETA/25995 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
Associated Lab Samples: 40106123001, 40106123002, 40106123003, 40106123004, 40106123005, 40106123006, 40106123007, 40106123008, 40106123009, 40106123010

METHOD BLANK: 1076326 Matrix: Water  
Associated Lab Samples: 40106123001, 40106123002, 40106123003, 40106123004, 40106123005, 40106123006, 40106123007, 40106123008, 40106123009, 40106123010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.5	20.0	11/06/14 08:02	

LABORATORY CONTROL SAMPLE: 1076327

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1076328 1076329

Parameter	Units	40105947001 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	392	500	500	964	940	114	110	90-110	3	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1076330 1076331

Parameter	Units	40106123001 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	922	500	500	1450	1440	105	103	90-110	1	20	

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### QUALITY CONTROL DATA

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

QC Batch: WETA/26060 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
Associated Lab Samples: 40106123011, 40106123012, 40106123013, 40106123014, 40106123015, 40106123016, 40106123017, 40106123018, 40106123019, 40106123020

METHOD BLANK: 1078351 Matrix: Water  
Associated Lab Samples: 40106123011, 40106123012, 40106123013, 40106123014, 40106123015, 40106123016, 40106123017, 40106123018, 40106123019, 40106123020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.5	20.0	11/10/14 10:24	

LABORATORY CONTROL SAMPLE: 1078352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	94.0	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1078353 1078354

Parameter	Units	40106086001 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	247	500	500	728	731	96	97	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1078355 1078357

Parameter	Units	40106123016 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	450	500	500	937	933	98	97	90-110	0	20	

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### QUALITY CONTROL DATA

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

QC Batch: WETA/25911 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 40106123001, 40106123002, 40106123003

METHOD BLANK: 1073609 Matrix: Water  
Associated Lab Samples: 40106123001, 40106123002, 40106123003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	10/31/14 12:24	

LABORATORY CONTROL SAMPLE: 1073610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1073611 1073612

Parameter	Units	40105841004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Nitrogen, NO2 plus NO3	mg/L	3.8	2.5	6.4	2.5	6.3	101	100	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1073614 1073615

Parameter	Units	40105947001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Nitrogen, NO2 plus NO3	mg/L	0.47	2.5	2.8	2.5	2.8	94	94	90-110	0	20	

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### QUALITY CONTROL DATA

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

QC Batch: WETA/25912 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 40106123004, 40106123005, 40106123006, 40106123007, 40106123008, 40106123009, 40106123010, 40106123011, 40106123012, 40106123013, 40106123014, 40106123015, 40106123016, 40106123017, 40106123018, 40106123019, 40106123020

METHOD BLANK: 1073625 Matrix: Water  
Associated Lab Samples: 40106123004, 40106123005, 40106123006, 40106123007, 40106123008, 40106123009, 40106123010, 40106123011, 40106123012, 40106123013, 40106123014, 40106123015, 40106123016, 40106123017, 40106123018, 40106123019, 40106123020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	10/31/14 12:51	

LABORATORY CONTROL SAMPLE: 1073626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1073627 1073628

Parameter	Units	40106123016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	1.1	2.5	2.5	3.5	3.5	95	94	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1073629 1073630

Parameter	Units	40106182001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.095	2.5	2.5	1.9	1.9	71	71	90-110	0	20 M0	

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## QUALIFIERS

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### ANALYTE QUALIFIERS

1q There was no sample volume available for reextraction and reanalysis.

B Analyte was detected in the associated method blank.

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

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

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

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40106123001	102714001	EPA 8015B Modified	GCV/13466		
40106123002	102714002	EPA 8015B Modified	GCV/13466		
40106123003	102814003	EPA 8015B Modified	GCV/13466		
40106123004	102814004	EPA 8015B Modified	GCV/13466		
40106123005	102814005	EPA 8015B Modified	GCV/13466		
40106123006	102814006	EPA 8015B Modified	GCV/13466		
40106123007	102814007	EPA 8015B Modified	GCV/13466		
40106123008	102814008	EPA 8015B Modified	GCV/13466		
40106123009	102814009	EPA 8015B Modified	GCV/13466		
40106123010	102814010	EPA 8015B Modified	GCV/13466		
40106123011	102814011	EPA 8015B Modified	GCV/13466		
40106123012	102814012	EPA 8015B Modified	GCV/13466		
40106123013	102814013	EPA 8015B Modified	GCV/13466		
40106123014	102814014	EPA 8015B Modified	GCV/13466		
40106123015	102814015	EPA 8015B Modified	GCV/13466		
40106123016	102814016	EPA 8015B Modified	GCV/13466		
40106123017	102814017	EPA 8015B Modified	GCV/13466		
40106123018	102814018	EPA 8015B Modified	GCV/13466		
40106123019	102814019	EPA 8015B Modified	GCV/13466		
40106123020	102814020	EPA 8015B Modified	GCV/13466		
40106123001	102714001	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123002	102714002	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123003	102814003	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123004	102814004	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123005	102814005	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123006	102814006	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123007	102814007	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123008	102814008	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123009	102814009	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123010	102814010	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123011	102814011	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123012	102814012	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123013	102814013	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123014	102814014	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123015	102814015	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123016	102814016	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123017	102814017	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123018	102814018	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123019	102814019	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123020	102814020	EPA 3010	MPRP/11033	EPA 6020	ICPM/5099
40106123001	102714001	EPA 3510	OEXT/24912	EPA 8270 by SIM	MSSV/7366
40106123002	102714002	EPA 3510	OEXT/24912	EPA 8270 by SIM	MSSV/7366
40106123003	102814003	EPA 3510	OEXT/24912	EPA 8270 by SIM	MSSV/7366
40106123004	102814004	EPA 3510	OEXT/24912	EPA 8270 by SIM	MSSV/7366
40106123005	102814005	EPA 3510	OEXT/24912	EPA 8270 by SIM	MSSV/7366
40106123006	102814006	EPA 3510	OEXT/24912	EPA 8270 by SIM	MSSV/7366
40106123007	102814007	EPA 3510	OEXT/24912	EPA 8270 by SIM	MSSV/7366

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 FORMER MARINETTE MGP

Pace Project No.: 40106123

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40106123008	102814008	EPA 3510	OEXT/24989	EPA 8270 by SIM	MSSV/7382
40106123009	102814009	EPA 3510	OEXT/24989	EPA 8270 by SIM	MSSV/7382
40106123010	102814010	EPA 3510	OEXT/24989	EPA 8270 by SIM	MSSV/7382
40106123011	102814011	EPA 3510	OEXT/24989	EPA 8270 by SIM	MSSV/7382
40106123012	102814012	EPA 3510	OEXT/24989	EPA 8270 by SIM	MSSV/7382
40106123013	102814013	EPA 3510	OEXT/24989	EPA 8270 by SIM	MSSV/7382
40106123014	102814014	EPA 3510	OEXT/24989	EPA 8270 by SIM	MSSV/7382
40106123015	102814015	EPA 3510	OEXT/24989	EPA 8270 by SIM	MSSV/7382
40106123016	102814016	EPA 3510	OEXT/24989	EPA 8270 by SIM	MSSV/7382
40106123017	102814017	EPA 3510	OEXT/24989	EPA 8270 by SIM	MSSV/7382
40106123018	102814018	EPA 3510	OEXT/24989	EPA 8270 by SIM	MSSV/7382
40106123019	102814019	EPA 3510	OEXT/24989	EPA 8270 by SIM	MSSV/7382
40106123020	102814020	EPA 3510	OEXT/24989	EPA 8270 by SIM	MSSV/7382
40106123001	102714001	EPA 8260	MSV/26338		
40106123002	102714002	EPA 8260	MSV/26338		
40106123003	102814003	EPA 8260	MSV/26338		
40106123004	102814004	EPA 8260	MSV/26338		
40106123005	102814005	EPA 8260	MSV/26338		
40106123006	102814006	EPA 8260	MSV/26338		
40106123007	102814007	EPA 8260	MSV/26338		
40106123008	102814008	EPA 8260	MSV/26338		
40106123009	102814009	EPA 8260	MSV/26338		
40106123010	102814010	EPA 8260	MSV/26338		
40106123011	102814011	EPA 8260	MSV/26338		
40106123012	102814012	EPA 8260	MSV/26338		
40106123013	102814013	EPA 8260	MSV/26338		
40106123014	102814014	EPA 8260	MSV/26338		
40106123015	102814015	EPA 8260	MSV/26338		
40106123016	102814016	EPA 8260	MSV/26338		
40106123017	102814017	EPA 8260	MSV/26338		
40106123018	102814018	EPA 8260	MSV/26338		
40106123019	102814019	EPA 8260	MSV/26338		
40106123020	102814020	EPA 8260	MSV/26338		
40106123021	102814021	EPA 8260	MSV/26337		
40106123001	102714001	EPA 300.0	WETA/26100		
40106123002	102714002	EPA 300.0	WETA/26100		
40106123003	102814003	EPA 300.0	WETA/26100		
40106123004	102814004	EPA 300.0	WETA/26100		
40106123005	102814005	EPA 300.0	WETA/26100		
40106123006	102814006	EPA 300.0	WETA/26100		
40106123007	102814007	EPA 300.0	WETA/26100		
40106123008	102814008	EPA 300.0	WETA/26100		
40106123009	102814009	EPA 300.0	WETA/26100		
40106123010	102814010	EPA 300.0	WETA/26100		
40106123011	102814011	EPA 300.0	WETA/26100		
40106123012	102814012	EPA 300.0	WETA/26100		
40106123013	102814013	EPA 300.0	WETA/26100		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40106123014	102814014	EPA 300.0	WETA/26100		
40106123015	102814015	EPA 300.0	WETA/26100		
40106123016	102814016	EPA 300.0	WETA/26100		
40106123017	102814017	EPA 300.0	WETA/26100		
40106123018	102814018	EPA 300.0	WETA/26100		
40106123019	102814019	EPA 300.0	WETA/26100		
40106123020	102814020	EPA 300.0	WETA/26100		
40106123001	102714001	EPA 310.2	WETA/25995		
40106123002	102714002	EPA 310.2	WETA/25995		
40106123003	102814003	EPA 310.2	WETA/25995		
40106123004	102814004	EPA 310.2	WETA/25995		
40106123005	102814005	EPA 310.2	WETA/25995		
40106123006	102814006	EPA 310.2	WETA/25995		
40106123007	102814007	EPA 310.2	WETA/25995		
40106123008	102814008	EPA 310.2	WETA/25995		
40106123009	102814009	EPA 310.2	WETA/25995		
40106123010	102814010	EPA 310.2	WETA/25995		
40106123011	102814011	EPA 310.2	WETA/26060		
40106123012	102814012	EPA 310.2	WETA/26060		
40106123013	102814013	EPA 310.2	WETA/26060		
40106123014	102814014	EPA 310.2	WETA/26060		
40106123015	102814015	EPA 310.2	WETA/26060		
40106123016	102814016	EPA 310.2	WETA/26060		
40106123017	102814017	EPA 310.2	WETA/26060		
40106123018	102814018	EPA 310.2	WETA/26060		
40106123019	102814019	EPA 310.2	WETA/26060		
40106123020	102814020	EPA 310.2	WETA/26060		
40106123001	102714001	EPA 353.2	WETA/25911		
40106123002	102714002	EPA 353.2	WETA/25911		
40106123003	102814003	EPA 353.2	WETA/25911		
40106123004	102814004	EPA 353.2	WETA/25912		
40106123005	102814005	EPA 353.2	WETA/25912		
40106123006	102814006	EPA 353.2	WETA/25912		
40106123007	102814007	EPA 353.2	WETA/25912		
40106123008	102814008	EPA 353.2	WETA/25912		
40106123009	102814009	EPA 353.2	WETA/25912		
40106123010	102814010	EPA 353.2	WETA/25912		
40106123011	102814011	EPA 353.2	WETA/25912		
40106123012	102814012	EPA 353.2	WETA/25912		
40106123013	102814013	EPA 353.2	WETA/25912		
40106123014	102814014	EPA 353.2	WETA/25912		
40106123015	102814015	EPA 353.2	WETA/25912		
40106123016	102814016	EPA 353.2	WETA/25912		
40106123017	102814017	EPA 353.2	WETA/25912		
40106123018	102814018	EPA 353.2	WETA/25912		
40106123019	102814019	EPA 353.2	WETA/25912		
40106123020	102814020	EPA 353.2	WETA/25912		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 FORMER MARINETTE MGP  
Pace Project No.: 40106123

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
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### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Natural Resource Center  
 Branch/Location: Madison WI  
 Project Contact: Brian Hennings  
 Phone: 262-719-4508  
 Project Number: 1549 Former  
 Project Name: Marquette MGP  
 Project State: WI  
 Sampled By (Print): Sarah Ganswiler  
 Sampled By (Sign): [Signature]  
 PO #: 3400000068 Regulatory Program:



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

40100123

### CHAIN OF CUSTODY

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

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

Y/N	N	N									
Pick Letter	B	B									
Analyses Requested	BTEX 8021	Methane 8015									

Quote #: 3400000068  
 Mail To Contact: Jody Barbeau  
 Mail To Company: Natural Resource Center  
 Mail To Address: 234 W Florida St  
Madison WI 53700  
 Invoice To Contact: Accounts Payable  
 Invoice To Company: JAS LLC  
 Invoice To Address: PO Box 19800  
Green Bay WI  
 Invoice To Phone: 920-433-2929  
 CLIENT COMMENTS:   
 LAB COMMENTS (Lab Use Only): 6-40, 10<sup>B</sup>, 3-250, 10<sup>ACD</sup> 1-1 Lag A  
 Profile #:

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD** (billable)  
 On your sample  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	Pick Letter	Analyses Requested
		DATE	TIME				
001	102714001	10/27/14	1729	(GW)			
002	102714002		1813	(GW)			
003	102814003	10/28/14	807	(GW)			
004	102814004		846	(GW)			
005	102814005		851	(GW)			
006	102814006		935	(GW)			
007	102814007		1015	(GW)			
008	102814008		1128	(GW)			
009	102814009		1220	(GW)			
010	102814010		1247	(GW)			
011	102814011		1331	(GW)			
012	102814012		1414	(GW)			
013	102814013		1439	(GW)			

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: 10/29/14

Relinquished By: [Signature] Date/Time: 10/29/14  
 Received By: [Signature] Date/Time: 10/29/14 1020

Transmit Prelim Rush Results by (complete what you want):

Email #1: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Email #2: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Telephone: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 40100123  
 Receipt Temp = RAT °C  
 Sample Receipt pH OK/ Adjusted  
 Cooler Custody Seal Present/ Not Present  
 Intact/ Not Intact Intact

(Please Print Clearly)

UPPER MIDWEST REGION

Page 1 of

Page 63 of 68

Company Name: Natural Resource Keech  
 Branch/Location: Milwaukee WI  
 Project Contact: Brian Hennings  
 Phone: 262-719-4508  
 Project Number: 1549 Former  
 Project Name: Marquette MS  
 Project State: WI  
 Sampled By (Print): Sarah Janswin  
 Sampled By (Sign): [Signature]  
 PO #: 3400000068 Regulatory Program:



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

Mer-29-005

### CHAIN OF CUSTODY

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

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

Y/N	Pick Letter	Analyses Requested
N	B	PEX
N	B	Metame
		8021
		8015

Quote #: 3400006068  
 Mail To Contact: Jody Barbeau  
 Mail To Company: Natural Resource Keech  
 Mail To Address: 234 W Florida St Milwaukee WI 53204  
 Invoice To Contact: Accounts Payable  
 Invoice To Company: TBS LLC  
 Invoice To Address: PO BOX 19800 Green Bay WI  
 Invoice To Phone: 920-433-2929

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
014	102814014	10/28/14	1444	GW
015	102814015		1513	GW
016	102814016		1603	
017	102814017		1639	
018	102814018		1715	
019	102814019		1751	
020	102814020		1826	
021	102814021		-	LAB GRADE
	102814022 SAG			

**CLIENT COMMENTS**  
 10-29-14  
 6 3-40, 10<sup>B</sup>, 3-20, 10<sup>B</sup> ACD, 1-12, 4<sup>B</sup>  
 MS/MSD (9-40, 10<sup>B</sup>) (3-12, 4<sup>B</sup>)  
 Trip BLANK 2-10, 10<sup>B</sup>

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: \_\_\_\_\_

Transmit Prelim Rush Results by (complete what you want):

Relinquished By: <u>[Signature]</u> Date/Time: <u>10-27-2014</u>	Received By: <u>[Signature]</u> Date/Time: <u>10/29/14 1020</u>	<b>PACE Project No.</b> <u>401010123</u> <b>Receipt Temp =</b> <u>ROT</u> °C <b>Sample Receipt pH</b> <input checked="" type="checkbox"/> Adjusted <b>Cooler Custody Seal</b> <input checked="" type="checkbox"/> Present / Not Present Intact / Not Intact
Relinquished By:	Received By:	
Relinquished By:	Received By:	
Relinquished By:	Received By:	
Relinquished By:	Received By:	

Samples on HOLD are subject to special pricing and release of liability

1549 008 - 1549007

(Please Print Clearly)

Company Name: NATURAL RESOURCETECH  
 Branch/Location: MILWAUKEE WI  
 Project Contact: BRIAN HENNINGS  
 Phone: (262) 719-4508  
 Project Number: 1549 TASK 17.0  
 Project Name: MARINETTE FORMER MGP  
 Project State: WI  
 Sampled By (Print): SARAH GANSWINDT  
 Sampled By (Sign): *S. Ganswindt*  
 PO #: 3400000068



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

LEVEL 2

Mus-29-001

### CHAIN OF CUSTODY

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

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

Y/M	Pick Letter	Analysis Requested
N	A	PAH8270
N	A	ALKALINITY 310.2
N	C	NITRATE-NITRITE 353.2
N	A	SULFATE 300.0
Y	D	DISS. METALS ALUMINUM, IRON, MANGANESE, AMMONIUM, COPPER, NICKEL, SILVER, VANADIUM, ZINC 1602.0

Quote #: 3400000068  
 Mail To Contact: JODY BARBEAU  
 Mail To Company: NATURAL RESOURCETECH  
 Mail To Address: 234 W. FLORIDA ST  
MILWAUKEE, WI 53204  
 Invoice To Contact: ACCOUNTS PAYABLE  
 Invoice To Company: IBS LLC.  
 Invoice To Address: PO Box 19800  
GREENBAY, WI  
 Invoice To Phone: (920) 433-2929

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	102714001	10/27/14	1729	GW
002	102714002	↓	1813	↓
003	102814003	10/28/14	807	↓
004	102814004	↓	846	↓
005	102814005	↓	851	↓
006	102814006	↓	935	↓

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <i>S. Ganswindt</i> Date/Time: 10-29-14 10:20	Received By: <i>Sarah Klyde</i> Date/Time: 10/29/14 10:20	PACE Project No. 40106123 Receipt Temp = <i>ROT</i> °C Sample Receipt pH <i>OK</i> / Adjusted Cooler Custody Seal Present / Not Present <i>OK</i> / Not Intact
Transmit Prelim Rush Results by (complete what you want):	Relinquished By:	Received By:	
Email #1:	Relinquished By:	Received By:	
Email #2:	Relinquished By:	Received By:	
Telephone:	Relinquished By:	Received By:	
Fax:	Relinquished By:	Received By:	
Samples on HOLD are subject to special pricing and release of liability	Relinquished By:	Received By:	

COUSTODY SEAL 1549001 & 1544002

(Please Print Clearly)

Company Name: NATURAL RESOURCE TECH.  
 Branch/Location: MILWAUKEE, WI  
 Project Contact: BRIAN HENNINGS  
 Phone: (262) 719-4508  
 Project Number: 1549 TASK 17.0  
 Project Name: MARINETTE FORMER MGP  
 Project State: WI  
 Sampled By (Print): SARAH GANSWINDT  
 Sampled By (Sign): *[Signature]*  
 PO #: 3400000068 Regulatory Program:



UPPER MIDWEST REGION

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

LEVEL 2

Mer-29-002

### CHAIN OF CUSTODY

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

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

Y/N	Pick Letter	Analysis Requested
N	A	PAH 8270
N	A	ALKALINITY 310.2
N	C	NITRATE/NITRITE
N	A	353.02
N	A	SULFATE 300.0
Y	D	DISS. METALS ALUMINUM, IRON MANGANESE, ANTIMONY COPPER, NICKEL, SILVER, VANADIUM, ZINC
Y	J	10020 A

Quote #: 3400000068  
 Mail To Contact: JODY BARBEAU  
 Mail To Company: NATURAL RESOURCE TECH.  
 Mail To Address: 234 N FLORIDA ST. MILWAUKEE, WI 53204  
 Invoice To Contact: ACCOUNTS PAYABLE  
 Invoice To Company: IBS LLC.  
 Invoice To Address: PO BOX 19800 GREEN BAY, WI  
 Invoice To Phone: (920) 433-2929  
 CLIENT COMMENTS LAB COMMENTS Profile #

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
007	102814007	10/28/14	10:15	GW
008	102814008		11:28	
009	102814009		12:29	
010	102814010		12:47	
011	102814011		13:31	
012	102814012		14:14	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: *10-29-14*

Relinquished By: *[Signature]* Date/Time: *10-29-14 10:20*  
 Relinquished By: Date/Time:  
 Relinquished By: Date/Time:  
 Relinquished By: Date/Time:

Received By: *[Signature]* Date/Time: *10/29/14 10:20*  
 Received By: Date/Time:  
 Received By: Date/Time:  
 Received By: Date/Time:

PACE Project No. *401000123*  
 Receipt Temp = *20.7* °C  
 Sample Receipt pH *OK* / Adjusted  
 Cooler Custody Seal Present / Not Present *OK* / Not Intact

Samples on HOLD are subject to special pricing and release of liability

1549003 & 1549004

(Please Print Clearly)

Company Name: NATURAL RESOURCE TECH.  
 Branch/Location: MILWAUKEE, WI  
 Project Contact: BRIAN HENNING'S  
 Phone: (262) 719-4508  
 Project Number: 1549 TASK 17.0  
 Project Name: MARINETTE FORMER MGP  
 Project State: WI  
 Sampled By (Print): SARAH GANSWINDT  
 Sampled By (Sign): *[Signature]*  
 PO #: 37000 000 608 Regulatory Program:



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

LEVEL 2

Mer-29-003

### CHAIN OF CUSTODY

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

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

Y/M	Pick Letter	Analyses Requested	Matrix
N	A	PAH 8270	GW
N	A	ALKALINITY 310.2	GW
N	C	NITRATE + NITRITE 353.2	GW
N	A	SULFATE 300.0	GW
Y	D	DISS. METALS ALUMINUM, IRON, MANGANESE, ANTIMONY, COPPER, NICKEL, SILVER, VANADIUM, ZINC 1020.0	GW

Quote #: 37000 000 608  
 Mail To Contact: JODY BARBEAU  
 Mail To Company: NATURAL RESOURCE TECH.  
 Mail To Address: 234 W FLORIDA ST MILWAUKEE, WI 53204  
 Invoice To Contact: ACCOUNTS PAYABLE  
 Invoice To Company: IBS LLC.  
 Invoice To Address: PO BOX 19800 GREEN BAY, WI  
 Invoice To Phone: (920) 433-2929  
 CLIENT COMMENTS: MS/MSD  
 LAB COMMENTS: (Lab Use Only)  
 Profile #:

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV  
**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample  
**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
013	102814013	10/28/14	1439	GW
014	102814014	↓	1444	GW
015	102814015	↓	1513	GW
016	102814016	↓	1603	GW

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: 10-29-14  
 Relinquished By: *[Signature]* Date/Time: 10-29-14  
 Received By: *[Signature]* Date/Time: 10/29/14 1020  
 PACE Project No. 401006123  
 Receipt Temp = ROT °C  
 Sample Receipt pH *[Signature]* Adjusted  
 Cooler Custody Seal Present / Not Present  
 Intact / Not Intact

1549005 & 1549006

(Please Print Clearly)

Company Name: NATURAL RESOURCE TECH.  
 Branch/Location: MILWAUKEE, WI  
 Project Contact: BRIAN HENNINGS  
 Phone: (262) 719-4508  
 Project Number: 1549 TASK 17.0  
 Project Name: MARINETTE FORMER MGP  
 Project State: WI  
 Sampled By (Print): SARAH GANSWINDT  
 Sampled By (Sign): *[Signature]*  
 PO #: 37000 000 68 Regulatory Program:



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

LEVEL 2 MS-29-004

### CHAIN OF CUSTODY

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

FILTERED? (YES/NO)  
 PRESERVATION (CODE)

Y/N	Pick Letter	Analysis Requested
N	A	PAH 8270
N	A	ALKALINITY 310.2
N	C	NITRATE-NITRITE 353.2
N	A	SULFATE 300.0
Y	D	DISS. METALS ALUMINUM, IRON, MANGANESE, ANTIMONY, COPPER, NICKEL, SILVER, VANADIUM, ZINC 10020A

Quote #: 37000 000 68  
 Mail To Contact: JODY BARBEAU  
 Mail To Company: NATURAL RESOURCE TECH  
 Mail To Address: 234 W FLORIDA ST, MILWAUKEE WI 53204  
 Invoice To Contact: ACCOUNTS PAYABLE  
 Invoice To Company: IBS LLC.  
 Invoice To Address: PO BOX 19800 GREEN BAY, WI  
 Invoice To Phone: (920) 433-2929  
 CLIENT COMMENTS LAB COMMENTS Profile #

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
017	102814017	10/28/14	16:39	GW
018	102814018		1715	
019	102814019		1751	
020	102814020		1826	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: 10/29/14

Relinquished By: *[Signature]* Date/Time: 10-29-14  
 Received By: *[Signature]* Date/Time: 10/29/14 1020

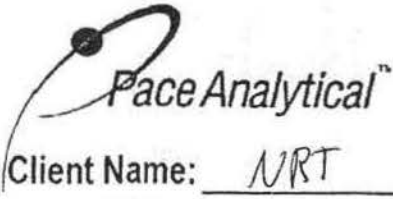
Transmit Prelim Rush Results by (complete what you want):

Email #1: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Email #2: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Telephone: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 40106123  
 Receipt Temp = ROT °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present Intact / Not Intact

1549007 & 1549008



Sample Condition Upon Receipt

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

Client Name: NRT

Project # **WO# : 40106123**

Courier:  Fed Ex  UPS  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 NA Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R01 / Corr: \_\_\_\_\_ Biological Tissue is Frozen:  yes  no

Temp Blank Present:  yes  no  no

Person examining contents:  
Date: 10-29-14  
Initials: KB

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8. 007 250µl A ± 40ml
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2, NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>KB</u> Lab Std #ID of preservative _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. Only one trip blank vial has a client label
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>328</u>	<u>10-29-14 KB</u>

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: Coolers not closed upon client dropoff, bags of ice atop of samples prevent closing of lids. Custody seals intact, however they really did not seal the coolers  
10-29-14 KB

Project Manager Review: [Signature] Date: 10-29-14



May 01, 2015

Brian Hennings  
NATURAL RESOURCE TECHNOLOGY  
234 W. Florida St, 5th Floor  
Milwaukee, WI 53204

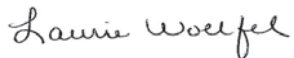
RE: Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

Dear Brian Hennings:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,



Laurie Woelfel for  
Brian Basten  
brian.basten@pacelabs.com  
Project Manager

Enclosures

cc: NRT Data, Natural Resource Technologies



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40113122001	041315001	Water	04/13/15 10:36	04/14/15 12:35
40113122002	041315002	Water	04/13/15 10:41	04/14/15 12:35
40113122003	041315003	Water	04/13/15 11:21	04/14/15 12:35
40113122004	041315004	Water	04/13/15 12:07	04/14/15 12:35
40113122005	041315005	Water	04/13/15 12:57	04/14/15 12:35
40113122006	041315006	Water	04/13/15 14:25	04/14/15 12:35
40113122007	041315007	Water	04/13/15 15:16	04/14/15 12:35
40113122008	041315008	Water	04/13/15 16:08	04/14/15 12:35
40113122009	041315009	Water	04/13/15 17:02	04/14/15 12:35
40113122010	041315010	Water	04/13/15 17:52	04/14/15 12:35
40113122011	041315011	Water	04/13/15 18:42	04/14/15 12:35
40113122012	041415012	Water	04/14/15 07:11	04/14/15 12:35
40113122013	041415013	Water	04/14/15 08:03	04/14/15 12:35
40113122014	041415014	Water	04/14/15 08:51	04/14/15 12:35
40113122015	041415015	Water	04/14/15 08:56	04/14/15 12:35
40113122016	041415016	Water	04/14/15 09:36	04/14/15 12:35
40113122017	041415017	Water	04/14/15 10:15	04/14/15 12:35
40113122018	041415018	Water	04/14/15 00:00	04/14/15 12:35

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40113122001	041315001	EPA 8015B Modified	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40113122002	041315002	EPA 8015B Modified	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40113122003	041315003	EPA 8015B Modified	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40113122004	041315004	EPA 8015B Modified	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40113122005	041315005	EPA 8015B Modified	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40113122006	041315006	EPA 8015B Modified	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40113122007	041315007	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	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	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
40113122008	041315008	EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	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	LCF	1	PASI-G
40113122009	041315009	EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	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	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	PASI-G
40113122010	041315010	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40113122011	041315011	EPA 8015B Modified	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40113122012	041415012	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	PASI-G
40113122013	041415013	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	PASI-G
40113122014	041415014	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	PASI-G
40113122015	041415015	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	PASI-G
40113122016	041415016	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	LCF	1	PASI-G
		EPA 6020	MMZ	9	PASI-G
		EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	8	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	DAW	1	PASI-G
40113122017	041415017	EPA 8260	LAP	8	PASI-G
40113122018	041415018	EPA 8260	LAP	8	PASI-G

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

---

**Date:** May 01, 2015

This report has been modified per client request.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

---

**Method:** EPA 8015B Modified

**Description:** Methane, Ethane, Ethene GCV

**Client:** Natural Resources Technologies

**Date:** May 01, 2015

**General Information:**

16 samples were analyzed for EPA 8015B Modified. All samples were received in acceptable condition with any exceptions noted below.

**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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

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**Method:** EPA 6020  
**Description:** 6020 MET ICPMS, Dissolved  
**Client:** Natural Resources Technologies  
**Date:** May 01, 2015

**General Information:**

16 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

**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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

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**Method:** EPA 8270 by HVI  
**Description:** 8270 MSSV PAH by HVI  
**Client:** Natural Resources Technologies  
**Date:** May 01, 2015

**General Information:**

16 samples were analyzed for EPA 8270 by HVI. All samples were received in acceptable condition with any exceptions noted below.

**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: OEXT/26245

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

- 041415013 (Lab ID: 40113122013)
  - 2-Fluorobiphenyl (S)
  - Terphenyl-d14 (S)

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

---

**Method:** EPA 8260  
**Description:** 8260 MSV UST  
**Client:** Natural Resources Technologies  
**Date:** May 01, 2015

**General Information:**

18 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

**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: MSV/28075

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

- 041415013 (Lab ID: 40113122013)
- Dibromofluoromethane (S)

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

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**Method:** EPA 300.0  
**Description:** 300.0 IC Anions 28 Days  
**Client:** Natural Resources Technologies  
**Date:** May 01, 2015

**General Information:**

16 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

**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.

**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: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

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**Method:** EPA 310.2  
**Description:** 310.2 Alkalinity  
**Client:** Natural Resources Technologies  
**Date:** May 01, 2015

**General Information:**

16 samples were analyzed for EPA 310.2. All samples were received in acceptable condition with any exceptions noted below.

**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.

**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: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

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**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.

**Client:** Natural Resources Technologies

**Date:** May 01, 2015

**General Information:**

16 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

**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.

**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: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

**Sample: 041315001**      **Lab ID: 40113122001**      Collected: 04/13/15 10:36      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>9800</b>	ug/L	140	68.5	50		04/22/15 11:48	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 12:54	7429-90-5	
Antimony, Dissolved	<b>0.24J</b>	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 12:54	7440-36-0	
Copper, Dissolved	<b>0.59J</b>	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 12:54	7440-50-8	
Iron, Dissolved	<b>3650</b>	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 12:54	7439-89-6	
Manganese, Dissolved	<b>394</b>	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 12:54	7439-96-5	
Nickel, Dissolved	<b>0.56J</b>	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 12:54	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 12:54	7440-22-4	
Vanadium, Dissolved	<b>0.79J</b>	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 12:54	7440-62-2	
Zinc, Dissolved	<b>&lt;3.1</b>	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 12:54	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>0.18</b>	ug/L	0.047	0.0047	1	04/16/15 08:30	04/17/15 16:15	83-32-9	
Acenaphthylene	<b>0.014J</b>	ug/L	0.047	0.0047	1	04/16/15 08:30	04/17/15 16:15	208-96-8	
Anthracene	<b>0.022J</b>	ug/L	0.047	0.0038	1	04/16/15 08:30	04/17/15 16:15	120-12-7	
Benzo(a)anthracene	<b>0.0063J</b>	ug/L	0.047	0.0048	1	04/16/15 08:30	04/17/15 16:15	56-55-3	
Benzo(a)pyrene	<b>&lt;0.0042</b>	ug/L	0.047	0.0042	1	04/16/15 08:30	04/17/15 16:15	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0050</b>	ug/L	0.047	0.0050	1	04/16/15 08:30	04/17/15 16:15	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0033</b>	ug/L	0.047	0.0033	1	04/16/15 08:30	04/17/15 16:15	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0053</b>	ug/L	0.047	0.0053	1	04/16/15 08:30	04/17/15 16:15	207-08-9	
Chrysene	<b>0.0070J</b>	ug/L	0.047	0.0040	1	04/16/15 08:30	04/17/15 16:15	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0052</b>	ug/L	0.047	0.0052	1	04/16/15 08:30	04/17/15 16:15	53-70-3	
Fluoranthene	<b>0.049</b>	ug/L	0.047	0.0089	1	04/16/15 08:30	04/17/15 16:15	206-44-0	
Fluorene	<b>0.11</b>	ug/L	0.047	0.0038	1	04/16/15 08:30	04/17/15 16:15	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.0034</b>	ug/L	0.047	0.0034	1	04/16/15 08:30	04/17/15 16:15	193-39-5	
1-Methylnaphthalene	<b>0.011J</b>	ug/L	0.047	0.0029	1	04/16/15 08:30	04/17/15 16:15	90-12-0	
2-Methylnaphthalene	<b>0.0096J</b>	ug/L	0.047	0.0026	1	04/16/15 08:30	04/17/15 16:15	91-57-6	
Naphthalene	<b>0.016J</b>	ug/L	0.047	0.0043	1	04/16/15 08:30	04/17/15 16:15	91-20-3	
Phenanthrene	<b>0.020J</b>	ug/L	0.047	0.0072	1	04/16/15 08:30	04/17/15 16:15	85-01-8	
Pyrene	<b>0.047J</b>	ug/L	0.047	0.0073	1	04/16/15 08:30	04/17/15 16:15	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	40-130		1	04/16/15 08:30	04/17/15 16:15	321-60-8	
Terphenyl-d14 (S)	84	%	26-135		1	04/16/15 08:30	04/17/15 16:15	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 12:26	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 12:26	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 12:26	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/16/15 12:26	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 12:26	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	93	%	70-130		1		04/16/15 12:26	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		04/16/15 12:26	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/16/15 12:26	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

Sample: 041315001      Lab ID: 40113122001      Collected: 04/13/15 10:36      Received: 04/14/15 12:35      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	65.2	mg/L	40.0	20.0	10		04/21/15 22:44	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	743	mg/L	40.0	15.0	2		04/17/15 12:01		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/21/15 11:19		

Sample: 041315002      Lab ID: 40113122002      Collected: 04/13/15 10:41      Received: 04/14/15 12:35      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	8770	ug/L	140	68.5	50		04/22/15 11:55	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 13:08	7429-90-5	
Antimony, Dissolved	0.15J	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 13:08	7440-36-0	
Copper, Dissolved	<0.26	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 13:08	7440-50-8	
Iron, Dissolved	3780	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 13:08	7439-89-6	
Manganese, Dissolved	404	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 13:08	7439-96-5	
Nickel, Dissolved	0.23J	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 13:08	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 13:08	7440-22-4	
Vanadium, Dissolved	0.85J	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 13:08	7440-62-2	
Zinc, Dissolved	3.1J	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 13:08	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	0.19	ug/L	0.047	0.0047	1	04/16/15 08:30	04/17/15 16:32	83-32-9	
Acenaphthylene	0.014J	ug/L	0.047	0.0047	1	04/16/15 08:30	04/17/15 16:32	208-96-8	
Anthracene	0.028J	ug/L	0.047	0.0038	1	04/16/15 08:30	04/17/15 16:32	120-12-7	
Benzo(a)anthracene	0.0057J	ug/L	0.047	0.0048	1	04/16/15 08:30	04/17/15 16:32	56-55-3	
Benzo(a)pyrene	<0.0042	ug/L	0.047	0.0042	1	04/16/15 08:30	04/17/15 16:32	50-32-8	
Benzo(b)fluoranthene	<0.0050	ug/L	0.047	0.0050	1	04/16/15 08:30	04/17/15 16:32	205-99-2	
Benzo(g,h,i)perylene	<0.0033	ug/L	0.047	0.0033	1	04/16/15 08:30	04/17/15 16:32	191-24-2	
Benzo(k)fluoranthene	<0.0053	ug/L	0.047	0.0053	1	04/16/15 08:30	04/17/15 16:32	207-08-9	
Chrysene	0.0056J	ug/L	0.047	0.0040	1	04/16/15 08:30	04/17/15 16:32	218-01-9	
Dibenz(a,h)anthracene	<0.0052	ug/L	0.047	0.0052	1	04/16/15 08:30	04/17/15 16:32	53-70-3	
Fluoranthene	0.050	ug/L	0.047	0.0089	1	04/16/15 08:30	04/17/15 16:32	206-44-0	
Fluorene	0.11	ug/L	0.047	0.0038	1	04/16/15 08:30	04/17/15 16:32	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0034	ug/L	0.047	0.0034	1	04/16/15 08:30	04/17/15 16:32	193-39-5	
1-Methylnaphthalene	0.010J	ug/L	0.047	0.0029	1	04/16/15 08:30	04/17/15 16:32	90-12-0	
2-Methylnaphthalene	0.0058J	ug/L	0.047	0.0026	1	04/16/15 08:30	04/17/15 16:32	91-57-6	
Naphthalene	0.014J	ug/L	0.047	0.0043	1	04/16/15 08:30	04/17/15 16:32	91-20-3	
Phenanthrene	0.018J	ug/L	0.047	0.0072	1	04/16/15 08:30	04/17/15 16:32	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

**Sample: 041315002**      **Lab ID: 40113122002**      Collected: 04/13/15 10:41      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Pyrene	<b>0.048</b>	ug/L	0.047	0.0073	1	04/16/15 08:30	04/17/15 16:32	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	65	%	40-130		1	04/16/15 08:30	04/17/15 16:32	321-60-8	
Terphenyl-d14 (S)	88	%	26-135		1	04/16/15 08:30	04/17/15 16:32	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 12:49	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 12:49	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 12:49	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/16/15 12:49	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 12:49	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	98	%	70-130		1		04/16/15 12:49	1868-53-7	
Toluene-d8 (S)	87	%	70-130		1		04/16/15 12:49	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		04/16/15 12:49	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>63.9</b>	mg/L	40.0	20.0	10		04/21/15 22:55	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>732</b>	mg/L	40.0	15.0	2		04/17/15 12:02		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		04/21/15 11:20		

**Sample: 041315003**      **Lab ID: 40113122003**      Collected: 04/13/15 11:21      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>3500</b>	ug/L	112	54.8	40		04/22/15 12:02	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 13:15	7429-90-5	
Antimony, Dissolved	<b>0.32J</b>	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 13:15	7440-36-0	
Copper, Dissolved	<b>0.48J</b>	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 13:15	7440-50-8	
Iron, Dissolved	<b>8770</b>	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 13:15	7439-89-6	
Manganese, Dissolved	<b>1230</b>	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 13:15	7439-96-5	
Nickel, Dissolved	<b>1.6</b>	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 13:15	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 13:15	7440-22-4	
Vanadium, Dissolved	<b>0.77J</b>	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 13:15	7440-62-2	
Zinc, Dissolved	<b>8.9J</b>	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 13:15	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

**Sample: 041315003**      **Lab ID: 40113122003**      Collected: 04/13/15 11:21      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510							
Acenaphthene	<b>0.017J</b>	ug/L	0.047	0.0047	1	04/16/15 08:30	04/17/15 16:48	83-32-9	
Acenaphthylene	<b>&lt;0.0047</b>	ug/L	0.047	0.0047	1	04/16/15 08:30	04/17/15 16:48	208-96-8	
Anthracene	<b>&lt;0.0038</b>	ug/L	0.047	0.0038	1	04/16/15 08:30	04/17/15 16:48	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0048</b>	ug/L	0.047	0.0048	1	04/16/15 08:30	04/17/15 16:48	56-55-3	
Benzo(a)pyrene	<b>&lt;0.0042</b>	ug/L	0.047	0.0042	1	04/16/15 08:30	04/17/15 16:48	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0050</b>	ug/L	0.047	0.0050	1	04/16/15 08:30	04/17/15 16:48	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0033</b>	ug/L	0.047	0.0033	1	04/16/15 08:30	04/17/15 16:48	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0053</b>	ug/L	0.047	0.0053	1	04/16/15 08:30	04/17/15 16:48	207-08-9	
Chrysene	<b>&lt;0.0040</b>	ug/L	0.047	0.0040	1	04/16/15 08:30	04/17/15 16:48	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0052</b>	ug/L	0.047	0.0052	1	04/16/15 08:30	04/17/15 16:48	53-70-3	
Fluoranthene	<b>&lt;0.0089</b>	ug/L	0.047	0.0089	1	04/16/15 08:30	04/17/15 16:48	206-44-0	
Fluorene	<b>0.0052J</b>	ug/L	0.047	0.0038	1	04/16/15 08:30	04/17/15 16:48	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.0034</b>	ug/L	0.047	0.0034	1	04/16/15 08:30	04/17/15 16:48	193-39-5	
1-Methylnaphthalene	<b>0.0046J</b>	ug/L	0.047	0.0029	1	04/16/15 08:30	04/17/15 16:48	90-12-0	
2-Methylnaphthalene	<b>0.0057J</b>	ug/L	0.047	0.0026	1	04/16/15 08:30	04/17/15 16:48	91-57-6	
Naphthalene	<b>0.019J</b>	ug/L	0.047	0.0043	1	04/16/15 08:30	04/17/15 16:48	91-20-3	
Phenanthrene	<b>&lt;0.0072</b>	ug/L	0.047	0.0072	1	04/16/15 08:30	04/17/15 16:48	85-01-8	
Pyrene	<b>&lt;0.0073</b>	ug/L	0.047	0.0073	1	04/16/15 08:30	04/17/15 16:48	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	62	%	40-130		1	04/16/15 08:30	04/17/15 16:48	321-60-8	
Terphenyl-d14 (S)	84	%	26-135		1	04/16/15 08:30	04/17/15 16:48	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 13:11	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 13:11	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 13:11	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/16/15 13:11	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 13:11	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	86	%	70-130		1		04/16/15 13:11	1868-53-7	
Toluene-d8 (S)	84	%	70-130		1		04/16/15 13:11	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		04/16/15 13:11	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<b>112</b>	mg/L	40.0	20.0	10		04/21/15 23:06	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	<b>272</b>	mg/L	200	74.9	10		04/17/15 12:28		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		04/21/15 11:21		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

**Sample: 041315004**      **Lab ID: 40113122004**      Collected: 04/13/15 12:07      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>1670</b>	ug/L	28.0	13.7	10		04/22/15 12:09	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 13:22	7429-90-5	
Antimony, Dissolved	<b>0.10J</b>	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 13:22	7440-36-0	
Copper, Dissolved	<b>0.79J</b>	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 13:22	7440-50-8	
Iron, Dissolved	<b>11200</b>	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 13:22	7439-89-6	
Manganese, Dissolved	<b>1260</b>	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 13:22	7439-96-5	
Nickel, Dissolved	<b>2.4</b>	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 13:22	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 13:22	7440-22-4	
Vanadium, Dissolved	<b>&lt;0.15</b>	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 13:22	7440-62-2	
Zinc, Dissolved	<b>11.8</b>	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 13:22	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>1.0</b>	ug/L	0.047	0.0046	1	04/16/15 08:30	04/17/15 17:05	83-32-9	
Acenaphthylene	<b>0.042J</b>	ug/L	0.047	0.0046	1	04/16/15 08:30	04/17/15 17:05	208-96-8	
Anthracene	<b>0.047</b>	ug/L	0.047	0.0038	1	04/16/15 08:30	04/17/15 17:05	120-12-7	
Benzo(a)anthracene	<b>0.025J</b>	ug/L	0.047	0.0048	1	04/16/15 08:30	04/17/15 17:05	56-55-3	
Benzo(a)pyrene	<b>0.011J</b>	ug/L	0.047	0.0041	1	04/16/15 08:30	04/17/15 17:05	50-32-8	
Benzo(b)fluoranthene	<b>0.026J</b>	ug/L	0.047	0.0050	1	04/16/15 08:30	04/17/15 17:05	205-99-2	
Benzo(g,h,i)perylene	<b>0.010J</b>	ug/L	0.047	0.0033	1	04/16/15 08:30	04/17/15 17:05	191-24-2	
Benzo(k)fluoranthene	<b>0.0075J</b>	ug/L	0.047	0.0053	1	04/16/15 08:30	04/17/15 17:05	207-08-9	
Chrysene	<b>0.033J</b>	ug/L	0.047	0.0040	1	04/16/15 08:30	04/17/15 17:05	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0052</b>	ug/L	0.047	0.0052	1	04/16/15 08:30	04/17/15 17:05	53-70-3	
Fluoranthene	<b>0.13</b>	ug/L	0.047	0.0088	1	04/16/15 08:30	04/17/15 17:05	206-44-0	
Fluorene	<b>0.17</b>	ug/L	0.047	0.0038	1	04/16/15 08:30	04/17/15 17:05	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.0076J</b>	ug/L	0.047	0.0033	1	04/16/15 08:30	04/17/15 17:05	193-39-5	
1-Methylnaphthalene	<b>0.072</b>	ug/L	0.047	0.0029	1	04/16/15 08:30	04/17/15 17:05	90-12-0	
2-Methylnaphthalene	<b>0.0069J</b>	ug/L	0.047	0.0026	1	04/16/15 08:30	04/17/15 17:05	91-57-6	
Naphthalene	<b>0.033J</b>	ug/L	0.047	0.0042	1	04/16/15 08:30	04/17/15 17:05	91-20-3	
Phenanthrene	<b>0.053</b>	ug/L	0.047	0.0072	1	04/16/15 08:30	04/17/15 17:05	85-01-8	
Pyrene	<b>0.13</b>	ug/L	0.047	0.0072	1	04/16/15 08:30	04/17/15 17:05	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	62	%	40-130		1	04/16/15 08:30	04/17/15 17:05	321-60-8	
Terphenyl-d14 (S)	85	%	26-135		1	04/16/15 08:30	04/17/15 17:05	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 13:34	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 13:34	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 13:34	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/16/15 13:34	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 13:34	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	97	%	70-130		1		04/16/15 13:34	1868-53-7	
Toluene-d8 (S)	80	%	70-130		1		04/16/15 13:34	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		04/16/15 13:34	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

Sample: 041315004      Lab ID: 40113122004      Collected: 04/13/15 12:07      Received: 04/14/15 12:35      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	124	mg/L	20.0	10.0	5		04/23/15 13:00	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	384	mg/L	40.0	15.0	2		04/17/15 12:05		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.20J	mg/L	0.25	0.095	1		04/21/15 11:22		

Sample: 041315005      Lab ID: 40113122005      Collected: 04/13/15 12:57      Received: 04/14/15 12:35      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	1290	ug/L	56.0	27.4	20		04/22/15 12:51	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 13:29	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 13:29	7440-36-0	
Copper, Dissolved	0.44J	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 13:29	7440-50-8	
Iron, Dissolved	24500	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 13:29	7439-89-6	
Manganese, Dissolved	1160	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 13:29	7439-96-5	
Nickel, Dissolved	0.94J	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 13:29	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 13:29	7440-22-4	
Vanadium, Dissolved	3.0	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 13:29	7440-62-2	
Zinc, Dissolved	3.9J	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 13:29	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	0.98	ug/L	0.048	0.0048	1	04/16/15 08:30	04/17/15 17:21	83-32-9	
Acenaphthylene	0.036J	ug/L	0.048	0.0048	1	04/16/15 08:30	04/17/15 17:21	208-96-8	
Anthracene	0.031J	ug/L	0.048	0.0039	1	04/16/15 08:30	04/17/15 17:21	120-12-7	
Benzo(a)anthracene	0.021J	ug/L	0.048	0.0049	1	04/16/15 08:30	04/17/15 17:21	56-55-3	
Benzo(a)pyrene	0.0089J	ug/L	0.048	0.0042	1	04/16/15 08:30	04/17/15 17:21	50-32-8	
Benzo(b)fluoranthene	0.021J	ug/L	0.048	0.0051	1	04/16/15 08:30	04/17/15 17:21	205-99-2	
Benzo(g,h,i)perylene	0.0099J	ug/L	0.048	0.0034	1	04/16/15 08:30	04/17/15 17:21	191-24-2	
Benzo(k)fluoranthene	0.0087J	ug/L	0.048	0.0054	1	04/16/15 08:30	04/17/15 17:21	207-08-9	
Chrysene	0.021J	ug/L	0.048	0.0041	1	04/16/15 08:30	04/17/15 17:21	218-01-9	
Dibenz(a,h)anthracene	<0.0053	ug/L	0.048	0.0053	1	04/16/15 08:30	04/17/15 17:21	53-70-3	
Fluoranthene	0.12	ug/L	0.048	0.0090	1	04/16/15 08:30	04/17/15 17:21	206-44-0	
Fluorene	0.28	ug/L	0.048	0.0039	1	04/16/15 08:30	04/17/15 17:21	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0072J	ug/L	0.048	0.0034	1	04/16/15 08:30	04/17/15 17:21	193-39-5	
1-Methylnaphthalene	0.47	ug/L	0.048	0.0030	1	04/16/15 08:30	04/17/15 17:21	90-12-0	
2-Methylnaphthalene	0.028J	ug/L	0.048	0.0026	1	04/16/15 08:30	04/17/15 17:21	91-57-6	
Naphthalene	1.5	ug/L	0.048	0.0044	1	04/16/15 08:30	04/17/15 17:21	91-20-3	
Phenanthrene	0.044J	ug/L	0.048	0.0074	1	04/16/15 08:30	04/17/15 17:21	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

**Sample: 041315005**      **Lab ID: 40113122005**      Collected: 04/13/15 12:57      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Pyrene	0.11	ug/L	0.048	0.0074	1	04/16/15 08:30	04/17/15 17:21	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	40-130		1	04/16/15 08:30	04/17/15 17:21	321-60-8	
Terphenyl-d14 (S)	88	%	26-135		1	04/16/15 08:30	04/17/15 17:21	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/16/15 13:56	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/16/15 13:56	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/16/15 13:56	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/16/15 13:56	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/16/15 13:56	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	92	%	70-130		1		04/16/15 13:56	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		04/16/15 13:56	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		04/16/15 13:56	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	24.7	mg/L	20.0	10.0	5		04/23/15 13:32	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	516	mg/L	40.0	15.0	2		04/17/15 12:06		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/21/15 11:25		

**Sample: 041315006**      **Lab ID: 40113122006**      Collected: 04/13/15 14:25      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	26.8	ug/L	2.8	1.4	1		04/22/15 09:59	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 13:49	7429-90-5	
Antimony, Dissolved	0.10J	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 13:49	7440-36-0	
Copper, Dissolved	3.3	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 13:49	7440-50-8	
Iron, Dissolved	3250	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 13:49	7439-89-6	
Manganese, Dissolved	2120	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 13:49	7439-96-5	
Nickel, Dissolved	11.0	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 13:49	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 13:49	7440-22-4	
Vanadium, Dissolved	1.1	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 13:49	7440-62-2	
Zinc, Dissolved	200	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 13:49	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

**Sample: 041315006**      **Lab ID: 40113122006**      Collected: 04/13/15 14:25      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510							
Acenaphthene	<0.0046	ug/L	0.047	0.0046	1	04/16/15 08:30	04/17/15 17:38	83-32-9	
Acenaphthylene	<0.0046	ug/L	0.047	0.0046	1	04/16/15 08:30	04/17/15 17:38	208-96-8	
Anthracene	<0.0038	ug/L	0.047	0.0038	1	04/16/15 08:30	04/17/15 17:38	120-12-7	
Benzo(a)anthracene	<0.0048	ug/L	0.047	0.0048	1	04/16/15 08:30	04/17/15 17:38	56-55-3	
Benzo(a)pyrene	<0.0041	ug/L	0.047	0.0041	1	04/16/15 08:30	04/17/15 17:38	50-32-8	
Benzo(b)fluoranthene	<b>0.0061J</b>	ug/L	0.047	0.0050	1	04/16/15 08:30	04/17/15 17:38	205-99-2	
Benzo(g,h,i)perylene	<0.0033	ug/L	0.047	0.0033	1	04/16/15 08:30	04/17/15 17:38	191-24-2	
Benzo(k)fluoranthene	<0.0053	ug/L	0.047	0.0053	1	04/16/15 08:30	04/17/15 17:38	207-08-9	
Chrysene	<b>0.0057J</b>	ug/L	0.047	0.0040	1	04/16/15 08:30	04/17/15 17:38	218-01-9	
Dibenz(a,h)anthracene	<0.0052	ug/L	0.047	0.0052	1	04/16/15 08:30	04/17/15 17:38	53-70-3	
Fluoranthene	<b>0.010J</b>	ug/L	0.047	0.0088	1	04/16/15 08:30	04/17/15 17:38	206-44-0	
Fluorene	<0.0038	ug/L	0.047	0.0038	1	04/16/15 08:30	04/17/15 17:38	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0033	ug/L	0.047	0.0033	1	04/16/15 08:30	04/17/15 17:38	193-39-5	
1-Methylnaphthalene	<b>0.0065J</b>	ug/L	0.047	0.0029	1	04/16/15 08:30	04/17/15 17:38	90-12-0	
2-Methylnaphthalene	<b>0.0072J</b>	ug/L	0.047	0.0026	1	04/16/15 08:30	04/17/15 17:38	91-57-6	
Naphthalene	<b>0.011J</b>	ug/L	0.047	0.0042	1	04/16/15 08:30	04/17/15 17:38	91-20-3	
Phenanthrene	<b>0.012J</b>	ug/L	0.047	0.0072	1	04/16/15 08:30	04/17/15 17:38	85-01-8	
Pyrene	<b>0.0084J</b>	ug/L	0.047	0.0072	1	04/16/15 08:30	04/17/15 17:38	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	63	%	40-130		1	04/16/15 08:30	04/17/15 17:38	321-60-8	
Terphenyl-d14 (S)	88	%	26-135		1	04/16/15 08:30	04/17/15 17:38	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		04/16/15 14:18	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/16/15 14:18	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/16/15 14:18	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/16/15 14:18	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/16/15 14:18	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	95	%	70-130		1		04/16/15 14:18	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		04/16/15 14:18	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		04/16/15 14:18	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<b>242</b>	mg/L	80.0	40.0	20		04/23/15 19:41	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	<b>603</b>	mg/L	40.0	15.0	2		04/17/15 12:06		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<b>0.14J</b>	mg/L	0.25	0.095	1		04/21/15 11:26		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

**Sample: 041315007**      **Lab ID: 40113122007**      Collected: 04/13/15 15:16      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/22/15 09:38	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 12:27	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 12:27	7440-36-0	
Copper, Dissolved	3.0	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 12:27	7440-50-8	
Iron, Dissolved	162J	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 12:27	7439-89-6	
Manganese, Dissolved	0.87J	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 12:27	7439-96-5	
Nickel, Dissolved	1.3	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 12:27	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 12:27	7440-22-4	
Vanadium, Dissolved	<0.15	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 12:27	7440-62-2	
Zinc, Dissolved	7.6J	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 12:27	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<0.0050	ug/L	0.050	0.0050	1	04/16/15 12:30	04/17/15 17:55	83-32-9	
Acenaphthylene	0.0052J	ug/L	0.050	0.0049	1	04/16/15 12:30	04/17/15 17:55	208-96-8	
Anthracene	0.011J	ug/L	0.050	0.0040	1	04/16/15 12:30	04/17/15 17:55	120-12-7	
Benzo(a)anthracene	<0.0051	ug/L	0.050	0.0051	1	04/16/15 12:30	04/17/15 17:55	56-55-3	
Benzo(a)pyrene	<0.0044	ug/L	0.050	0.0044	1	04/16/15 12:30	04/17/15 17:55	50-32-8	
Benzo(b)fluoranthene	<0.0053	ug/L	0.050	0.0053	1	04/16/15 12:30	04/17/15 17:55	205-99-2	
Benzo(g,h,i)perylene	<0.0035	ug/L	0.050	0.0035	1	04/16/15 12:30	04/17/15 17:55	191-24-2	
Benzo(k)fluoranthene	<0.0056	ug/L	0.050	0.0056	1	04/16/15 12:30	04/17/15 17:55	207-08-9	
Chrysene	<0.0042	ug/L	0.050	0.0042	1	04/16/15 12:30	04/17/15 17:55	218-01-9	
Dibenz(a,h)anthracene	<0.0056	ug/L	0.050	0.0056	1	04/16/15 12:30	04/17/15 17:55	53-70-3	
Fluoranthene	<0.0094	ug/L	0.050	0.0094	1	04/16/15 12:30	04/17/15 17:55	206-44-0	
Fluorene	<0.0040	ug/L	0.050	0.0040	1	04/16/15 12:30	04/17/15 17:55	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0036	ug/L	0.050	0.0036	1	04/16/15 12:30	04/17/15 17:55	193-39-5	
1-Methylnaphthalene	0.0099J	ug/L	0.050	0.0031	1	04/16/15 12:30	04/17/15 17:55	90-12-0	
2-Methylnaphthalene	0.013J	ug/L	0.050	0.0028	1	04/16/15 12:30	04/17/15 17:55	91-57-6	
Naphthalene	0.017J	ug/L	0.050	0.0045	1	04/16/15 12:30	04/17/15 17:55	91-20-3	
Phenanthrene	<0.0077	ug/L	0.050	0.0077	1	04/16/15 12:30	04/17/15 17:55	85-01-8	
Pyrene	<0.0077	ug/L	0.050	0.0077	1	04/16/15 12:30	04/17/15 17:55	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	63	%	40-130		1	04/16/15 12:30	04/17/15 17:55	321-60-8	
Terphenyl-d14 (S)	98	%	26-135		1	04/16/15 12:30	04/17/15 17:55	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/17/15 08:47	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/17/15 08:47	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/17/15 08:47	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/17/15 08:47	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/17/15 08:47	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	90	%	70-130		1		04/17/15 08:47	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		04/17/15 08:47	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		04/17/15 08:47	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

Sample: 041315007      Lab ID: 40113122007      Collected: 04/13/15 15:16      Received: 04/14/15 12:35      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	93.5	mg/L	80.0	40.0	20		04/23/15 19:52	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	306	mg/L	100	37.5	5		04/17/15 12:07		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	8.2	mg/L	1.2	0.48	5		04/21/15 12:32		

Sample: 041315008      Lab ID: 40113122008      Collected: 04/13/15 16:08      Received: 04/14/15 12:35      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	26.7	ug/L	2.8	1.4	1		04/22/15 10:13	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 13:56	7429-90-5	
Antimony, Dissolved	0.28J	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 13:56	7440-36-0	
Copper, Dissolved	4.7	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 13:56	7440-50-8	
Iron, Dissolved	183J	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 13:56	7439-89-6	
Manganese, Dissolved	177	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 13:56	7439-96-5	
Nickel, Dissolved	2.6	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 13:56	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 13:56	7440-22-4	
Vanadium, Dissolved	0.30J	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 13:56	7440-62-2	
Zinc, Dissolved	3.3J	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 13:56	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	0.57	ug/L	0.047	0.0046	1	04/16/15 12:30	04/17/15 18:44	83-32-9	
Acenaphthylene	0.32	ug/L	0.047	0.0046	1	04/16/15 12:30	04/17/15 18:44	208-96-8	
Anthracene	0.10	ug/L	0.047	0.0038	1	04/16/15 12:30	04/17/15 18:44	120-12-7	
Benzo(a)anthracene	0.018J	ug/L	0.047	0.0048	1	04/16/15 12:30	04/17/15 18:44	56-55-3	
Benzo(a)pyrene	0.0082J	ug/L	0.047	0.0041	1	04/16/15 12:30	04/17/15 18:44	50-32-8	
Benzo(b)fluoranthene	0.014J	ug/L	0.047	0.0050	1	04/16/15 12:30	04/17/15 18:44	205-99-2	
Benzo(g,h,i)perylene	0.013J	ug/L	0.047	0.0033	1	04/16/15 12:30	04/17/15 18:44	191-24-2	
Benzo(k)fluoranthene	<0.0053	ug/L	0.047	0.0053	1	04/16/15 12:30	04/17/15 18:44	207-08-9	
Chrysene	0.012J	ug/L	0.047	0.0040	1	04/16/15 12:30	04/17/15 18:44	218-01-9	
Dibenz(a,h)anthracene	<0.0052	ug/L	0.047	0.0052	1	04/16/15 12:30	04/17/15 18:44	53-70-3	
Fluoranthene	0.12	ug/L	0.047	0.0088	1	04/16/15 12:30	04/17/15 18:44	206-44-0	
Fluorene	0.079	ug/L	0.047	0.0038	1	04/16/15 12:30	04/17/15 18:44	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0092J	ug/L	0.047	0.0033	1	04/16/15 12:30	04/17/15 18:44	193-39-5	
1-Methylnaphthalene	0.17	ug/L	0.047	0.0029	1	04/16/15 12:30	04/17/15 18:44	90-12-0	
2-Methylnaphthalene	0.0077J	ug/L	0.047	0.0026	1	04/16/15 12:30	04/17/15 18:44	91-57-6	
Naphthalene	0.027J	ug/L	0.047	0.0042	1	04/16/15 12:30	04/17/15 18:44	91-20-3	
Phenanthrene	0.033J	ug/L	0.047	0.0072	1	04/16/15 12:30	04/17/15 18:44	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

**Sample: 041315008**      **Lab ID: 40113122008**      Collected: 04/13/15 16:08      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Pyrene	<b>0.064</b>	ug/L	0.047	0.0072	1	04/16/15 12:30	04/17/15 18:44	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	62	%	40-130		1	04/16/15 12:30	04/17/15 18:44	321-60-8	
Terphenyl-d14 (S)	93	%	26-135		1	04/16/15 12:30	04/17/15 18:44	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>2.4</b>	ug/L	1.0	0.50	1		04/16/15 14:41	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 14:41	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 14:41	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/16/15 14:41	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 14:41	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	92	%	70-130		1		04/16/15 14:41	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		04/16/15 14:41	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		04/16/15 14:41	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>124</b>	mg/L	40.0	20.0	10		04/23/15 20:44	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>378</b>	mg/L	40.0	15.0	2		04/17/15 12:08		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>1.9</b>	mg/L	0.25	0.095	1		04/21/15 11:29		

**Sample: 041315009**      **Lab ID: 40113122009**      Collected: 04/13/15 17:02      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>1.8J</b>	ug/L	2.8	1.4	1		04/22/15 10:20	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 14:03	7429-90-5	
Antimony, Dissolved	<b>1.7</b>	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 14:03	7440-36-0	
Copper, Dissolved	<b>3.8</b>	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 14:03	7440-50-8	
Iron, Dissolved	<b>122J</b>	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 14:03	7439-89-6	
Manganese, Dissolved	<b>440</b>	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 14:03	7439-96-5	
Nickel, Dissolved	<b>1.2</b>	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 14:03	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 14:03	7440-22-4	
Vanadium, Dissolved	<b>3.8</b>	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 14:03	7440-62-2	
Zinc, Dissolved	<b>3.3J</b>	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 14:03	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

**Sample: 041315009**      **Lab ID: 40113122009**      Collected: 04/13/15 17:02      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>0.0090J</b>	ug/L	0.047	0.0047	1	04/16/15 12:30	04/17/15 19:01	83-32-9	
Acenaphthylene	<b>0.010J</b>	ug/L	0.047	0.0047	1	04/16/15 12:30	04/17/15 19:01	208-96-8	
Anthracene	<b>0.021J</b>	ug/L	0.047	0.0038	1	04/16/15 12:30	04/17/15 19:01	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0048</b>	ug/L	0.047	0.0048	1	04/16/15 12:30	04/17/15 19:01	56-55-3	
Benzo(a)pyrene	<b>&lt;0.0042</b>	ug/L	0.047	0.0042	1	04/16/15 12:30	04/17/15 19:01	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0050</b>	ug/L	0.047	0.0050	1	04/16/15 12:30	04/17/15 19:01	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0033</b>	ug/L	0.047	0.0033	1	04/16/15 12:30	04/17/15 19:01	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0053</b>	ug/L	0.047	0.0053	1	04/16/15 12:30	04/17/15 19:01	207-08-9	
Chrysene	<b>0.0056J</b>	ug/L	0.047	0.0040	1	04/16/15 12:30	04/17/15 19:01	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0052</b>	ug/L	0.047	0.0052	1	04/16/15 12:30	04/17/15 19:01	53-70-3	
Fluoranthene	<b>0.015J</b>	ug/L	0.047	0.0089	1	04/16/15 12:30	04/17/15 19:01	206-44-0	
Fluorene	<b>0.0099J</b>	ug/L	0.047	0.0038	1	04/16/15 12:30	04/17/15 19:01	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.0034</b>	ug/L	0.047	0.0034	1	04/16/15 12:30	04/17/15 19:01	193-39-5	
1-Methylnaphthalene	<b>0.0080J</b>	ug/L	0.047	0.0029	1	04/16/15 12:30	04/17/15 19:01	90-12-0	
2-Methylnaphthalene	<b>0.0058J</b>	ug/L	0.047	0.0026	1	04/16/15 12:30	04/17/15 19:01	91-57-6	
Naphthalene	<b>0.0091J</b>	ug/L	0.047	0.0043	1	04/16/15 12:30	04/17/15 19:01	91-20-3	
Phenanthrene	<b>0.022J</b>	ug/L	0.047	0.0072	1	04/16/15 12:30	04/17/15 19:01	85-01-8	
Pyrene	<b>0.013J</b>	ug/L	0.047	0.0073	1	04/16/15 12:30	04/17/15 19:01	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	40-130		1	04/16/15 12:30	04/17/15 19:01	321-60-8	
Terphenyl-d14 (S)	91	%	26-135		1	04/16/15 12:30	04/17/15 19:01	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 15:03	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 15:03	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 15:03	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/16/15 15:03	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 15:03	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	97	%	70-130		1		04/16/15 15:03	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		04/16/15 15:03	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/16/15 15:03	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>119</b>	mg/L	20.0	10.0	5		04/23/15 20:55	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>365</b>	mg/L	40.0	15.0	2		04/17/15 12:09		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>0.80</b>	mg/L	0.25	0.095	1		04/21/15 11:30		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

**Sample: 041315010**      **Lab ID: 40113122010**      Collected: 04/13/15 17:52      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Methane	<b>20.6</b>	ug/L	2.8	1.4	1		04/22/15 10:27	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 14:09	7429-90-5	
Antimony, Dissolved	<b>0.54J</b>	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 14:09	7440-36-0	
Copper, Dissolved	<b>5.0</b>	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 14:09	7440-50-8	
Iron, Dissolved	<b>388</b>	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 14:09	7439-89-6	
Manganese, Dissolved	<b>690</b>	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 14:09	7439-96-5	
Nickel, Dissolved	<b>2.7</b>	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 14:09	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 14:09	7440-22-4	
Vanadium, Dissolved	<b>0.50J</b>	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 14:09	7440-62-2	
Zinc, Dissolved	<b>3.6J</b>	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 14:09	7440-66-6	
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	<b>0.0090J</b>	ug/L	0.050	0.0049	1	04/16/15 12:30	04/17/15 19:18	83-32-9	
Acenaphthylene	<b>0.0087J</b>	ug/L	0.050	0.0049	1	04/16/15 12:30	04/17/15 19:18	208-96-8	
Anthracene	<b>0.032J</b>	ug/L	0.050	0.0040	1	04/16/15 12:30	04/17/15 19:18	120-12-7	
Benzo(a)anthracene	<b>0.034J</b>	ug/L	0.050	0.0051	1	04/16/15 12:30	04/17/15 19:18	56-55-3	
Benzo(a)pyrene	<b>0.024J</b>	ug/L	0.050	0.0044	1	04/16/15 12:30	04/17/15 19:18	50-32-8	
Benzo(b)fluoranthene	<b>0.068</b>	ug/L	0.050	0.0053	1	04/16/15 12:30	04/17/15 19:18	205-99-2	
Benzo(g,h,i)perylene	<b>0.033J</b>	ug/L	0.050	0.0035	1	04/16/15 12:30	04/17/15 19:18	191-24-2	
Benzo(k)fluoranthene	<b>0.025J</b>	ug/L	0.050	0.0056	1	04/16/15 12:30	04/17/15 19:18	207-08-9	
Chrysene	<b>0.049J</b>	ug/L	0.050	0.0042	1	04/16/15 12:30	04/17/15 19:18	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0055</b>	ug/L	0.050	0.0055	1	04/16/15 12:30	04/17/15 19:18	53-70-3	
Fluoranthene	<b>0.057</b>	ug/L	0.050	0.0093	1	04/16/15 12:30	04/17/15 19:18	206-44-0	
Fluorene	<b>0.0067J</b>	ug/L	0.050	0.0040	1	04/16/15 12:30	04/17/15 19:18	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.022J</b>	ug/L	0.050	0.0035	1	04/16/15 12:30	04/17/15 19:18	193-39-5	
1-Methylnaphthalene	<b>0.013J</b>	ug/L	0.050	0.0031	1	04/16/15 12:30	04/17/15 19:18	90-12-0	
2-Methylnaphthalene	<b>0.016J</b>	ug/L	0.050	0.0027	1	04/16/15 12:30	04/17/15 19:18	91-57-6	
Naphthalene	<b>0.018J</b>	ug/L	0.050	0.0045	1	04/16/15 12:30	04/17/15 19:18	91-20-3	
Phenanthrene	<b>0.021J</b>	ug/L	0.050	0.0076	1	04/16/15 12:30	04/17/15 19:18	85-01-8	
Pyrene	<b>0.055</b>	ug/L	0.050	0.0076	1	04/16/15 12:30	04/17/15 19:18	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	55	%	40-130		1	04/16/15 12:30	04/17/15 19:18	321-60-8	
Terphenyl-d14 (S)	97	%	26-135		1	04/16/15 12:30	04/17/15 19:18	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 15:26	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 15:26	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 15:26	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/16/15 15:26	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 15:26	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	92	%	70-130		1		04/16/15 15:26	1868-53-7	
Toluene-d8 (S)	84	%	70-130		1		04/16/15 15:26	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		04/16/15 15:26	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

Sample: 041315010      Lab ID: 40113122010      Collected: 04/13/15 17:52      Received: 04/14/15 12:35      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>328</b>	mg/L	80.0	40.0	20		04/23/15 21:05	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>438</b>	mg/L	40.0	15.0	2		04/17/15 12:10		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>6.7</b>	mg/L	0.25	0.095	1		04/21/15 11:31		

Sample: 041315011      Lab ID: 40113122011      Collected: 04/13/15 18:42      Received: 04/14/15 12:35      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>1800</b>	ug/L	28.0	13.7	10		04/22/15 12:30	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 14:16	7429-90-5	
Antimony, Dissolved	<b>0.71J</b>	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 14:16	7440-36-0	
Copper, Dissolved	<b>3.7</b>	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 14:16	7440-50-8	
Iron, Dissolved	<b>8280</b>	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 14:16	7439-89-6	
Manganese, Dissolved	<b>501</b>	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 14:16	7439-96-5	
Nickel, Dissolved	<b>2.3</b>	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 14:16	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 14:16	7440-22-4	
Vanadium, Dissolved	<b>1.2</b>	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 14:16	7440-62-2	
Zinc, Dissolved	<b>5.6J</b>	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 14:16	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>0.068</b>	ug/L	0.049	0.0049	1	04/16/15 12:30	04/17/15 19:34	83-32-9	
Acenaphthylene	<b>0.0055J</b>	ug/L	0.049	0.0048	1	04/16/15 12:30	04/17/15 19:34	208-96-8	
Anthracene	<b>0.016J</b>	ug/L	0.049	0.0040	1	04/16/15 12:30	04/17/15 19:34	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0050</b>	ug/L	0.049	0.0050	1	04/16/15 12:30	04/17/15 19:34	56-55-3	
Benzo(a)pyrene	<b>&lt;0.0043</b>	ug/L	0.049	0.0043	1	04/16/15 12:30	04/17/15 19:34	50-32-8	
Benzo(b)fluoranthene	<b>0.0065J</b>	ug/L	0.049	0.0052	1	04/16/15 12:30	04/17/15 19:34	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0034</b>	ug/L	0.049	0.0034	1	04/16/15 12:30	04/17/15 19:34	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0055</b>	ug/L	0.049	0.0055	1	04/16/15 12:30	04/17/15 19:34	207-08-9	
Chrysene	<b>&lt;0.0042</b>	ug/L	0.049	0.0042	1	04/16/15 12:30	04/17/15 19:34	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0055</b>	ug/L	0.049	0.0055	1	04/16/15 12:30	04/17/15 19:34	53-70-3	
Fluoranthene	<b>0.014J</b>	ug/L	0.049	0.0092	1	04/16/15 12:30	04/17/15 19:34	206-44-0	
Fluorene	<b>0.014J</b>	ug/L	0.049	0.0040	1	04/16/15 12:30	04/17/15 19:34	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.0035</b>	ug/L	0.049	0.0035	1	04/16/15 12:30	04/17/15 19:34	193-39-5	
1-Methylnaphthalene	<b>0.0039J</b>	ug/L	0.049	0.0030	1	04/16/15 12:30	04/17/15 19:34	90-12-0	
2-Methylnaphthalene	<b>0.0048J</b>	ug/L	0.049	0.0027	1	04/16/15 12:30	04/17/15 19:34	91-57-6	
Naphthalene	<b>0.012J</b>	ug/L	0.049	0.0044	1	04/16/15 12:30	04/17/15 19:34	91-20-3	
Phenanthrene	<b>&lt;0.0075</b>	ug/L	0.049	0.0075	1	04/16/15 12:30	04/17/15 19:34	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

**Sample: 041315011**      **Lab ID: 40113122011**      Collected: 04/13/15 18:42      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510							
Pyrene	<b>0.013J</b>	ug/L	0.049	0.0075	1	04/16/15 12:30	04/17/15 19:34	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	40-130		1	04/16/15 12:30	04/17/15 19:34	321-60-8	
Terphenyl-d14 (S)	87	%	26-135		1	04/16/15 12:30	04/17/15 19:34	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 15:48	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 15:48	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 15:48	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/16/15 15:48	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/16/15 15:48	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	100	%	70-130		1		04/16/15 15:48	1868-53-7	
Toluene-d8 (S)	83	%	70-130		1		04/16/15 15:48	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		04/16/15 15:48	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<b>152</b>	mg/L	20.0	10.0	5		04/23/15 21:16	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	<b>320</b>	mg/L	40.0	15.0	2		04/17/15 12:10		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<b>8.5</b>	mg/L	0.25	0.095	1		04/21/15 11:32		

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## ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

**Sample: 041415013**      **Lab ID: 40113122013**      Collected: 04/14/15 08:03      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Methane	<b>2630</b>	ug/L	56.0	27.4	20		04/22/15 12:44	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020      Preparation Method: EPA 3010							
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 14:30	7429-90-5	
Antimony, Dissolved	<b>&lt;0.073</b>	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 14:30	7440-36-0	
Copper, Dissolved	<b>0.42J</b>	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 14:30	7440-50-8	
Iron, Dissolved	<b>28500</b>	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 14:30	7439-89-6	
Manganese, Dissolved	<b>1320</b>	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 14:30	7439-96-5	
Nickel, Dissolved	<b>0.78J</b>	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 14:30	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 14:30	7440-22-4	
Vanadium, Dissolved	<b>0.77J</b>	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 14:30	7440-62-2	
Zinc, Dissolved	<b>3.1J</b>	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 14:30	7440-66-6	
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510							
Acenaphthene	<b>82.2</b>	ug/L	4.7	0.47	100	04/16/15 12:30	04/17/15 20:07	83-32-9	
Acenaphthylene	<b>1.5J</b>	ug/L	4.7	0.47	100	04/16/15 12:30	04/17/15 20:07	208-96-8	
Anthracene	<b>3.3J</b>	ug/L	4.7	0.38	100	04/16/15 12:30	04/17/15 20:07	120-12-7	
Benzo(a)anthracene	<b>&lt;0.48</b>	ug/L	4.7	0.48	100	04/16/15 12:30	04/17/15 20:07	56-55-3	
Benzo(a)pyrene	<b>&lt;0.42</b>	ug/L	4.7	0.42	100	04/16/15 12:30	04/17/15 20:07	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.50</b>	ug/L	4.7	0.50	100	04/16/15 12:30	04/17/15 20:07	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.33</b>	ug/L	4.7	0.33	100	04/16/15 12:30	04/17/15 20:07	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.53</b>	ug/L	4.7	0.53	100	04/16/15 12:30	04/17/15 20:07	207-08-9	
Chrysene	<b>&lt;0.40</b>	ug/L	4.7	0.40	100	04/16/15 12:30	04/17/15 20:07	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.52</b>	ug/L	4.7	0.52	100	04/16/15 12:30	04/17/15 20:07	53-70-3	
Fluoranthene	<b>2.0J</b>	ug/L	4.7	0.89	100	04/16/15 12:30	04/17/15 20:07	206-44-0	
Fluorene	<b>21.4</b>	ug/L	4.7	0.38	100	04/16/15 12:30	04/17/15 20:07	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.34</b>	ug/L	4.7	0.34	100	04/16/15 12:30	04/17/15 20:07	193-39-5	
1-Methylnaphthalene	<b>95.2</b>	ug/L	4.7	0.29	100	04/16/15 12:30	04/17/15 20:07	90-12-0	
2-Methylnaphthalene	<b>17.8</b>	ug/L	4.7	0.26	100	04/16/15 12:30	04/17/15 20:07	91-57-6	
Naphthalene	<b>544</b>	ug/L	4.7	0.43	100	04/16/15 12:30	04/17/15 20:07	91-20-3	
Phenanthrene	<b>19.4</b>	ug/L	4.7	0.72	100	04/16/15 12:30	04/17/15 20:07	85-01-8	
Pyrene	<b>2.0J</b>	ug/L	4.7	0.73	100	04/16/15 12:30	04/17/15 20:07	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0	%	40-130		100	04/16/15 12:30	04/17/15 20:07	321-60-8	S4
Terphenyl-d14 (S)	0	%	26-135		100	04/16/15 12:30	04/17/15 20:07	1718-51-0	S4
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<b>104</b>	ug/L	10.0	5.0	10		04/17/15 09:31	71-43-2	
Ethylbenzene	<b>121</b>	ug/L	10.0	5.0	10		04/17/15 09:31	100-41-4	
Toluene	<b>7.7J</b>	ug/L	10.0	5.0	10		04/17/15 09:31	108-88-3	
m&p-Xylene	<b>15.0J</b>	ug/L	20.0	10.0	10		04/17/15 09:31	179601-23-1	
o-Xylene	<b>60.8</b>	ug/L	10.0	5.0	10		04/17/15 09:31	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	86	%	70-130		10		04/17/15 09:31	1868-53-7	D3
Toluene-d8 (S)	86	%	70-130		10		04/17/15 09:31	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		10		04/17/15 09:31	460-00-4	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

Sample: 041415013      Lab ID: 40113122013      Collected: 04/14/15 08:03      Received: 04/14/15 12:35      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	37.7	mg/L	20.0	10.0	5		04/23/15 21:26	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	671	mg/L	40.0	15.0	2		04/17/15 12:13		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/21/15 11:36		

Sample: 041415014      Lab ID: 40113122014      Collected: 04/14/15 08:51      Received: 04/14/15 12:35      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/22/15 11:27	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 14:37	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 14:37	7440-36-0	
Copper, Dissolved	1.4	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 14:37	7440-50-8	
Iron, Dissolved	<10.0	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 14:37	7439-89-6	
Manganese, Dissolved	392	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 14:37	7439-96-5	
Nickel, Dissolved	0.84J	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 14:37	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 14:37	7440-22-4	
Vanadium, Dissolved	<0.15	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 14:37	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 14:37	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	0.010J	ug/L	0.047	0.0047	1	04/16/15 12:30	04/17/15 20:24	83-32-9	
Acenaphthylene	<0.0047	ug/L	0.047	0.0047	1	04/16/15 12:30	04/17/15 20:24	208-96-8	
Anthracene	<0.0038	ug/L	0.047	0.0038	1	04/16/15 12:30	04/17/15 20:24	120-12-7	
Benzo(a)anthracene	<0.0048	ug/L	0.047	0.0048	1	04/16/15 12:30	04/17/15 20:24	56-55-3	
Benzo(a)pyrene	<0.0042	ug/L	0.047	0.0042	1	04/16/15 12:30	04/17/15 20:24	50-32-8	
Benzo(b)fluoranthene	<0.0050	ug/L	0.047	0.0050	1	04/16/15 12:30	04/17/15 20:24	205-99-2	
Benzo(g,h,i)perylene	<0.0033	ug/L	0.047	0.0033	1	04/16/15 12:30	04/17/15 20:24	191-24-2	
Benzo(k)fluoranthene	<0.0053	ug/L	0.047	0.0053	1	04/16/15 12:30	04/17/15 20:24	207-08-9	
Chrysene	<0.0040	ug/L	0.047	0.0040	1	04/16/15 12:30	04/17/15 20:24	218-01-9	
Dibenz(a,h)anthracene	<0.0052	ug/L	0.047	0.0052	1	04/16/15 12:30	04/17/15 20:24	53-70-3	
Fluoranthene	<0.0089	ug/L	0.047	0.0089	1	04/16/15 12:30	04/17/15 20:24	206-44-0	
Fluorene	0.0047J	ug/L	0.047	0.0038	1	04/16/15 12:30	04/17/15 20:24	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0034	ug/L	0.047	0.0034	1	04/16/15 12:30	04/17/15 20:24	193-39-5	
1-Methylnaphthalene	0.013J	ug/L	0.047	0.0029	1	04/16/15 12:30	04/17/15 20:24	90-12-0	
2-Methylnaphthalene	0.0060J	ug/L	0.047	0.0026	1	04/16/15 12:30	04/17/15 20:24	91-57-6	
Naphthalene	0.072	ug/L	0.047	0.0043	1	04/16/15 12:30	04/17/15 20:24	91-20-3	
Phenanthrene	0.0094J	ug/L	0.047	0.0072	1	04/16/15 12:30	04/17/15 20:24	85-01-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

**Sample: 041415014**      **Lab ID: 40113122014**      Collected: 04/14/15 08:51      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Pyrene	<b>0.0073J</b>	ug/L	0.047	0.0073	1	04/16/15 12:30	04/17/15 20:24	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	40-130		1	04/16/15 12:30	04/17/15 20:24	321-60-8	
Terphenyl-d14 (S)	90	%	26-135		1	04/16/15 12:30	04/17/15 20:24	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/17/15 09:54	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/17/15 09:54	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/17/15 09:54	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/17/15 09:54	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/17/15 09:54	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	86	%	70-130		1		04/17/15 09:54	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		04/17/15 09:54	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		04/17/15 09:54	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>67.5</b>	mg/L	20.0	10.0	5		04/23/15 21:37	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>218</b>	mg/L	40.0	15.0	2		04/17/15 12:14		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>3.0</b>	mg/L	0.25	0.095	1		04/21/15 11:37		

**Sample: 041415015**      **Lab ID: 40113122015**      Collected: 04/14/15 08:56      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>&lt;1.4</b>	ug/L	2.8	1.4	1		04/22/15 11:34	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 14:44	7429-90-5	
Antimony, Dissolved	<b>&lt;0.073</b>	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 14:44	7440-36-0	
Copper, Dissolved	<b>1.9</b>	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 14:44	7440-50-8	
Iron, Dissolved	<b>&lt;10.0</b>	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 14:44	7439-89-6	
Manganese, Dissolved	<b>386</b>	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 14:44	7439-96-5	
Nickel, Dissolved	<b>2.3</b>	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 14:44	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 14:44	7440-22-4	
Vanadium, Dissolved	<b>&lt;0.15</b>	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 14:44	7440-62-2	
Zinc, Dissolved	<b>4.5J</b>	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 14:44	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

**Sample: 041415015**      **Lab ID: 40113122015**      Collected: 04/14/15 08:56      Received: 04/14/15 12:35      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510							
Acenaphthene	<b>0.0052J</b>	ug/L	0.046	0.0046	1	04/16/15 12:30	04/17/15 20:40	83-32-9	
Acenaphthylene	<b>&lt;0.0046</b>	ug/L	0.046	0.0046	1	04/16/15 12:30	04/17/15 20:40	208-96-8	
Anthracene	<b>0.0047J</b>	ug/L	0.046	0.0037	1	04/16/15 12:30	04/17/15 20:40	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0048</b>	ug/L	0.046	0.0048	1	04/16/15 12:30	04/17/15 20:40	56-55-3	
Benzo(a)pyrene	<b>&lt;0.0041</b>	ug/L	0.046	0.0041	1	04/16/15 12:30	04/17/15 20:40	50-32-8	
Benzo(b)fluoranthene	<b>0.010J</b>	ug/L	0.046	0.0049	1	04/16/15 12:30	04/17/15 20:40	205-99-2	
Benzo(g,h,i)perylene	<b>0.0077J</b>	ug/L	0.046	0.0032	1	04/16/15 12:30	04/17/15 20:40	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0052</b>	ug/L	0.046	0.0052	1	04/16/15 12:30	04/17/15 20:40	207-08-9	
Chrysene	<b>0.0084J</b>	ug/L	0.046	0.0039	1	04/16/15 12:30	04/17/15 20:40	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0051</b>	ug/L	0.046	0.0051	1	04/16/15 12:30	04/17/15 20:40	53-70-3	
Fluoranthene	<b>0.016J</b>	ug/L	0.046	0.0087	1	04/16/15 12:30	04/17/15 20:40	206-44-0	
Fluorene	<b>0.0079J</b>	ug/L	0.046	0.0037	1	04/16/15 12:30	04/17/15 20:40	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.0033</b>	ug/L	0.046	0.0033	1	04/16/15 12:30	04/17/15 20:40	193-39-5	
1-Methylnaphthalene	<b>0.012J</b>	ug/L	0.046	0.0029	1	04/16/15 12:30	04/17/15 20:40	90-12-0	
2-Methylnaphthalene	<b>0.011J</b>	ug/L	0.046	0.0025	1	04/16/15 12:30	04/17/15 20:40	91-57-6	
Naphthalene	<b>0.019J</b>	ug/L	0.046	0.0042	1	04/16/15 12:30	04/17/15 20:40	91-20-3	
Phenanthrene	<b>&lt;0.0071</b>	ug/L	0.046	0.0071	1	04/16/15 12:30	04/17/15 20:40	85-01-8	
Pyrene	<b>0.017J</b>	ug/L	0.046	0.0071	1	04/16/15 12:30	04/17/15 20:40	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	54	%	40-130		1	04/16/15 12:30	04/17/15 20:40	321-60-8	
Terphenyl-d14 (S)	92	%	26-135		1	04/16/15 12:30	04/17/15 20:40	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/17/15 10:16	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/17/15 10:16	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/17/15 10:16	108-88-3	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/17/15 10:16	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/17/15 10:16	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	84	%	70-130		1		04/17/15 10:16	1868-53-7	
Toluene-d8 (S)	86	%	70-130		1		04/17/15 10:16	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		04/17/15 10:16	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<b>68.3</b>	mg/L	20.0	10.0	5		04/23/15 21:48	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	<b>232</b>	mg/L	40.0	15.0	2		04/17/15 12:14		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<b>3.0</b>	mg/L	0.25	0.095	1		04/21/15 11:38		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

Sample: 041415016 Lab ID: 40113122016 Collected: 04/14/15 09:36 Received: 04/14/15 12:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/22/15 11:41	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/21/15 10:11	04/22/15 14:50	7429-90-5	
Antimony, Dissolved	0.59J	ug/L	1.0	0.073	1	04/21/15 10:11	04/22/15 14:50	7440-36-0	
Copper, Dissolved	5.0	ug/L	1.0	0.26	1	04/21/15 10:11	04/22/15 14:50	7440-50-8	
Iron, Dissolved	<10.0	ug/L	250	10.0	1	04/21/15 10:11	04/22/15 14:50	7439-89-6	
Manganese, Dissolved	1.7	ug/L	1.0	0.18	1	04/21/15 10:11	04/22/15 14:50	7439-96-5	
Nickel, Dissolved	1.8	ug/L	1.0	0.11	1	04/21/15 10:11	04/22/15 14:50	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/21/15 10:11	04/22/15 14:50	7440-22-4	
Vanadium, Dissolved	1.3	ug/L	1.0	0.15	1	04/21/15 10:11	04/22/15 14:50	7440-62-2	
Zinc, Dissolved	21.0	ug/L	10.0	3.1	1	04/21/15 10:11	04/22/15 14:50	7440-66-6	
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0051	ug/L	0.051	0.0051	1	04/16/15 12:30	04/17/15 20:57	83-32-9	
Acenaphthylene	<0.0050	ug/L	0.051	0.0050	1	04/16/15 12:30	04/17/15 20:57	208-96-8	
Anthracene	0.020J	ug/L	0.051	0.0041	1	04/16/15 12:30	04/17/15 20:57	120-12-7	
Benzo(a)anthracene	0.014J	ug/L	0.051	0.0052	1	04/16/15 12:30	04/17/15 20:57	56-55-3	
Benzo(a)pyrene	0.0072J	ug/L	0.051	0.0045	1	04/16/15 12:30	04/17/15 20:57	50-32-8	
Benzo(b)fluoranthene	0.022J	ug/L	0.051	0.0054	1	04/16/15 12:30	04/17/15 20:57	205-99-2	
Benzo(g,h,i)perylene	0.017J	ug/L	0.051	0.0036	1	04/16/15 12:30	04/17/15 20:57	191-24-2	
Benzo(k)fluoranthene	0.0096J	ug/L	0.051	0.0057	1	04/16/15 12:30	04/17/15 20:57	207-08-9	
Chrysene	0.018J	ug/L	0.051	0.0043	1	04/16/15 12:30	04/17/15 20:57	218-01-9	
Dibenz(a,h)anthracene	<0.0057	ug/L	0.051	0.0057	1	04/16/15 12:30	04/17/15 20:57	53-70-3	
Fluoranthene	0.028J	ug/L	0.051	0.0096	1	04/16/15 12:30	04/17/15 20:57	206-44-0	
Fluorene	0.0043J	ug/L	0.051	0.0041	1	04/16/15 12:30	04/17/15 20:57	86-73-7	
Indeno(1,2,3-cd)pyrene	0.012J	ug/L	0.051	0.0037	1	04/16/15 12:30	04/17/15 20:57	193-39-5	
1-Methylnaphthalene	0.0067J	ug/L	0.051	0.0032	1	04/16/15 12:30	04/17/15 20:57	90-12-0	
2-Methylnaphthalene	0.0078J	ug/L	0.051	0.0028	1	04/16/15 12:30	04/17/15 20:57	91-57-6	
Naphthalene	0.026J	ug/L	0.051	0.0046	1	04/16/15 12:30	04/17/15 20:57	91-20-3	
Phenanthrene	0.019J	ug/L	0.051	0.0078	1	04/16/15 12:30	04/17/15 20:57	85-01-8	
Pyrene	0.027J	ug/L	0.051	0.0078	1	04/16/15 12:30	04/17/15 20:57	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	58	%	40-130		1	04/16/15 12:30	04/17/15 20:57	321-60-8	
Terphenyl-d14 (S)	91	%	26-135		1	04/16/15 12:30	04/17/15 20:57	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/17/15 10:39	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/17/15 10:39	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/17/15 10:39	108-88-3	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/17/15 10:39	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/17/15 10:39	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	87	%	70-130		1		04/17/15 10:39	1868-53-7	
Toluene-d8 (S)	87	%	70-130		1		04/17/15 10:39	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		04/17/15 10:39	460-00-4	

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## ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

Sample: 041415016      Lab ID: 40113122016      Collected: 04/14/15 09:36      Received: 04/14/15 12:35      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>151</b>	mg/L	20.0	10.0	5		04/24/15 10:18	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub>	<b>354</b>	mg/L	40.0	15.0	2		04/17/15 12:15		
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO <sub>2</sub> plus NO <sub>3</sub>	<b>8.4</b>	mg/L	1.2	0.48	5		04/21/15 12:34		

Sample information not related to current property, and therefore not shown.

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

QC Batch: MPRP/11753 Analysis Method: EPA 6020  
 QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
 Associated Lab Samples: 40113122001, 40113122002, 40113122003, 40113122004, 40113122005, 40113122006, 40113122007, 40113122008, 40113122009, 40113122010, 40113122011, 40113122012, 40113122013, 40113122014, 40113122015, 40113122016

METHOD BLANK: 1144486 Matrix: Water  
 Associated Lab Samples: 40113122001, 40113122002, 40113122003, 40113122004, 40113122005, 40113122006, 40113122007, 40113122008, 40113122009, 40113122010, 40113122011, 40113122012, 40113122013, 40113122014, 40113122015, 40113122016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<68.7	250	04/22/15 12:00	
Antimony, Dissolved	ug/L	<0.073	1.0	04/22/15 12:00	
Copper, Dissolved	ug/L	<0.26	1.0	04/22/15 12:00	
Iron, Dissolved	ug/L	<10.0	250	04/22/15 12:00	
Manganese, Dissolved	ug/L	<0.18	1.0	04/22/15 12:00	
Nickel, Dissolved	ug/L	<0.11	1.0	04/22/15 12:00	
Silver, Dissolved	ug/L	<0.016	0.50	04/22/15 12:00	
Vanadium, Dissolved	ug/L	<0.15	1.0	04/22/15 12:00	
Zinc, Dissolved	ug/L	<3.1	10.0	04/22/15 12:00	

LABORATORY CONTROL SAMPLE: 1144487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	5030	101	80-120	
Antimony, Dissolved	ug/L	500	530	106	80-120	
Copper, Dissolved	ug/L	500	494	99	80-120	
Iron, Dissolved	ug/L	5000	5010	100	80-120	
Manganese, Dissolved	ug/L	500	493	99	80-120	
Nickel, Dissolved	ug/L	500	487	97	80-120	
Silver, Dissolved	ug/L	250	259	104	80-120	
Vanadium, Dissolved	ug/L	500	489	98	80-120	
Zinc, Dissolved	ug/L	500	504	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144488 1144489

Parameter	Units	40113122007		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Aluminum, Dissolved	ug/L	<68.7	5000	5000	4920	5010	98	100	75-125	2	20		
Antimony, Dissolved	ug/L	<0.073	500	500	529	535	106	107	75-125	1	20		
Copper, Dissolved	ug/L	3.0	500	500	476	482	95	96	75-125	1	20		
Iron, Dissolved	ug/L	162J	5000	5000	5120	5180	99	100	75-125	1	20		
Manganese, Dissolved	ug/L	0.87J	500	500	488	492	98	98	75-125	1	20		
Nickel, Dissolved	ug/L	1.3	500	500	470	476	94	95	75-125	1	20		
Silver, Dissolved	ug/L	<0.016	250	250	237	239	95	96	75-125	1	20		
Vanadium, Dissolved	ug/L	<0.15	500	500	503	506	100	101	75-125	1	20		

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1144488		1144489								
Parameter	Units	40113122007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Zinc, Dissolved	ug/L	7.6J	500	500	504	508	99	100	75-125	1	20	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

QC Batch: MSV/28065 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
 Associated Lab Samples: 40113122001, 40113122002, 40113122003, 40113122004, 40113122005, 40113122006, 40113122008, 40113122009, 40113122010, 40113122011

METHOD BLANK: 1141277 Matrix: Water  
 Associated Lab Samples: 40113122001, 40113122002, 40113122003, 40113122004, 40113122005, 40113122006, 40113122008, 40113122009, 40113122010, 40113122011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	04/16/15 06:50	
Ethylbenzene	ug/L	<0.50	1.0	04/16/15 06:50	
m&p-Xylene	ug/L	<1.0	2.0	04/16/15 06:50	
o-Xylene	ug/L	<0.50	1.0	04/16/15 06:50	
Toluene	ug/L	<0.50	1.0	04/16/15 06:50	
4-Bromofluorobenzene (S)	%	93	70-130	04/16/15 06:50	
Dibromofluoromethane (S)	%	97	70-130	04/16/15 06:50	
Toluene-d8 (S)	%	87	70-130	04/16/15 06:50	

LABORATORY CONTROL SAMPLE & LCSD: 1141278 1141279

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	45.1	40.7	90	81	70-130	10	20	
Ethylbenzene	ug/L	50	50.4	47.4	101	95	70-132	6	20	
m&p-Xylene	ug/L	100	110	102	110	102	70-131	7	20	
o-Xylene	ug/L	50	54.1	52.2	108	104	70-131	4	20	
Toluene	ug/L	50	48.5	46.0	97	92	70-130	5	20	
4-Bromofluorobenzene (S)	%				94	86	70-130			
Dibromofluoromethane (S)	%				91	88	70-130			
Toluene-d8 (S)	%				92	88	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1141280 1141281

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40113109004 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	<1.0	50	50	44.4	43.2	89	86	70-130	3	20
Ethylbenzene	ug/L	<1.0	50	50	51.5	51.9	103	104	70-132	1	20
m&p-Xylene	ug/L	<2.0	100	100	113	112	113	112	70-131	0	20
o-Xylene	ug/L	<1.0	50	50	55.0	56.1	110	112	70-131	2	20
Toluene	ug/L	<1.0	50	50	51.4	52.6	103	105	70-130	2	20
4-Bromofluorobenzene (S)	%						96	91	70-130		
Dibromofluoromethane (S)	%						91	85	70-130		
Toluene-d8 (S)	%						90	89	70-130		

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

QC Batch: MSV/28075 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
 Associated Lab Samples: 40113122007, 40113122012, 40113122013, 40113122014, 40113122015, 40113122016, 40113122017, 40113122018

METHOD BLANK: 1141941 Matrix: Water  
 Associated Lab Samples: 40113122007, 40113122012, 40113122013, 40113122014, 40113122015, 40113122016, 40113122017, 40113122018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	04/17/15 06:54	
Ethylbenzene	ug/L	<0.50	1.0	04/17/15 06:54	
m&p-Xylene	ug/L	<1.0	2.0	04/17/15 06:54	
o-Xylene	ug/L	<0.50	1.0	04/17/15 06:54	
Toluene	ug/L	<0.50	1.0	04/17/15 06:54	
4-Bromofluorobenzene (S)	%	96	70-130	04/17/15 06:54	
Dibromofluoromethane (S)	%	89	70-130	04/17/15 06:54	
Toluene-d8 (S)	%	93	70-130	04/17/15 06:54	

LABORATORY CONTROL SAMPLE & LCSD: 1141942 1141943

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	41.2	40.8	82	82	70-130	1	20	
Ethylbenzene	ug/L	50	50.9	52.2	102	104	70-132	3	20	
m&p-Xylene	ug/L	100	101	106	101	106	70-131	4	20	
o-Xylene	ug/L	50	52.4	53.3	105	107	70-131	2	20	
Toluene	ug/L	50	50.8	51.9	102	104	70-130	2	20	
4-Bromofluorobenzene (S)	%				99	92	70-130			
Dibromofluoromethane (S)	%				88	83	70-130			
Toluene-d8 (S)	%				90	95	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1141964 1141965

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40113122007 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	<0.50	50	50	41.2	40.6	82	81	70-130	2	20
Ethylbenzene	ug/L	<0.50	50	50	49.7	49.6	99	99	70-132	0	20
m&p-Xylene	ug/L	<1.0	100	100	103	102	103	102	70-131	1	20
o-Xylene	ug/L	<0.50	50	50	51.3	50.0	103	100	70-131	2	20
Toluene	ug/L	<0.50	50	50	51.3	50.1	103	100	70-130	2	20
4-Bromofluorobenzene (S)	%						91	92	70-130		
Dibromofluoromethane (S)	%						84	84	70-130		
Toluene-d8 (S)	%						90	91	70-130		

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

QC Batch: OEXT/26244 Analysis Method: EPA 8270 by HVI  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI  
 Associated Lab Samples: 40113122001, 40113122002, 40113122003, 40113122004, 40113122005, 40113122006

METHOD BLANK: 1142012 Matrix: Water  
 Associated Lab Samples: 40113122001, 40113122002, 40113122003, 40113122004, 40113122005, 40113122006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0031	0.050	04/17/15 10:10	
2-Methylnaphthalene	ug/L	<0.0028	0.050	04/17/15 10:10	
Acenaphthene	ug/L	<0.0050	0.050	04/17/15 10:10	
Acenaphthylene	ug/L	<0.0049	0.050	04/17/15 10:10	
Anthracene	ug/L	<0.0040	0.050	04/17/15 10:10	
Benzo(a)anthracene	ug/L	<0.0051	0.050	04/17/15 10:10	
Benzo(a)pyrene	ug/L	<0.0044	0.050	04/17/15 10:10	
Benzo(b)fluoranthene	ug/L	<0.0053	0.050	04/17/15 10:10	
Benzo(g,h,i)perylene	ug/L	<0.0035	0.050	04/17/15 10:10	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	04/17/15 10:10	
Chrysene	ug/L	<0.0042	0.050	04/17/15 10:10	
Dibenz(a,h)anthracene	ug/L	<0.0056	0.050	04/17/15 10:10	
Fluoranthene	ug/L	<0.0094	0.050	04/17/15 10:10	
Fluorene	ug/L	<0.0040	0.050	04/17/15 10:10	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	0.050	04/17/15 10:10	
Naphthalene	ug/L	<0.0045	0.050	04/17/15 10:10	
Phenanthrene	ug/L	<0.0077	0.050	04/17/15 10:10	
Pyrene	ug/L	<0.0077	0.050	04/17/15 10:10	
2-Fluorobiphenyl (S)	%	61	40-130	04/17/15 10:10	
Terphenyl-d14 (S)	%	83	26-135	04/17/15 10:10	

LABORATORY CONTROL SAMPLE: 1142013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.3	64	46-130	
2-Methylnaphthalene	ug/L	2	1.3	67	47-130	
Acenaphthene	ug/L	2	1.4	70	49-130	
Acenaphthylene	ug/L	2	1.4	71	44-130	
Anthracene	ug/L	2	1.4	72	53-130	
Benzo(a)anthracene	ug/L	2	1.9	95	49-130	
Benzo(a)pyrene	ug/L	2	1.5	73	47-130	
Benzo(b)fluoranthene	ug/L	2	2.0	102	54-133	
Benzo(g,h,i)perylene	ug/L	2	1.5	75	33-132	
Benzo(k)fluoranthene	ug/L	2	1.5	74	59-143	
Chrysene	ug/L	2	2.0	100	70-157	
Dibenz(a,h)anthracene	ug/L	2	1.5	75	24-130	
Fluoranthene	ug/L	2	1.8	91	59-130	
Fluorene	ug/L	2	1.6	79	49-130	
Indeno(1,2,3-cd)pyrene	ug/L	2	2.0	98	52-130	
Naphthalene	ug/L	2	1.3	64	45-130	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

LABORATORY CONTROL SAMPLE: 1142013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.5	73	60-130	
Pyrene	ug/L	2	1.9	95	64-147	
2-Fluorobiphenyl (S)	%			67	40-130	
Terphenyl-d14 (S)	%			105	26-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1142014 1142015

Parameter	Units	40113115001		MSD		MSD		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1-Methylnaphthalene	ug/L	0.0032J	2	2	1.2	1.2	58	59	27-130	3	42		
2-Methylnaphthalene	ug/L	0.0057J	2	2	1.2	1.2	60	61	33-130	2	37		
Acenaphthene	ug/L	<0.0050	2	2	1.3	1.3	64	66	32-130	3	35		
Acenaphthylene	ug/L	<0.0049	2	2	1.3	1.3	63	64	34-130	2	29		
Anthracene	ug/L	<0.0040	2	2	1.3	1.4	67	69	31-130	4	29		
Benzo(a)anthracene	ug/L	<0.0051	2	2	1.7	1.7	86	85	35-135	1	20		
Benzo(a)pyrene	ug/L	<0.0044	2	2	1.5	1.5	73	75	21-139	3	22		
Benzo(b)fluoranthene	ug/L	<0.0053	2	2	1.8	2.0	92	97	26-144	6	20		
Benzo(g,h,i)perylene	ug/L	0.0042J	2	2	1.4	1.4	69	67	10-142	2	20		
Benzo(k)fluoranthene	ug/L	<0.0056	2	2	1.6	1.5	78	76	21-155	2	20		
Chrysene	ug/L	<0.0042	2	2	2.1	2.1	103	103	46-157	1	20		
Dibenz(a,h)anthracene	ug/L	<0.0056	2	2	1.4	1.5	69	73	10-143	6	20		
Fluoranthene	ug/L	0.0095J	2	2	1.7	1.8	86	89	35-138	5	20		
Fluorene	ug/L	<0.0040	2	2	1.4	1.5	69	72	28-130	6	27		
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	2	2	1.8	1.8	88	87	16-139	0	20		
Naphthalene	ug/L	0.0056J	2	2	1.1	1.2	56	57	35-130	2	39		
Phenanthrene	ug/L	<0.0077	2	2	1.4	1.5	68	74	41-131	9	22		
Pyrene	ug/L	<0.0077	2	2	1.8	1.9	91	93	50-151	3	20		
2-Fluorobiphenyl (S)	%						63	65	40-130				
Terphenyl-d14 (S)	%						98	100	26-135				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

QC Batch: OEXT/26245

Analysis Method: EPA 8270 by HVI

QC Batch Method: EPA 3510

Analysis Description: 8270 Water PAH by HVI

Associated Lab Samples: 40113122007, 40113122008, 40113122009, 40113122010, 40113122011, 40113122012, 40113122013, 40113122014, 40113122015, 40113122016

METHOD BLANK: 1142016

Matrix: Water

Associated Lab Samples: 40113122007, 40113122008, 40113122009, 40113122010, 40113122011, 40113122012, 40113122013, 40113122014, 40113122015, 40113122016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0031	0.050	04/17/15 10:43	
2-Methylnaphthalene	ug/L	<0.0028	0.050	04/17/15 10:43	
Acenaphthene	ug/L	<0.0050	0.050	04/17/15 10:43	
Acenaphthylene	ug/L	<0.0049	0.050	04/17/15 10:43	
Anthracene	ug/L	<0.0040	0.050	04/17/15 10:43	
Benzo(a)anthracene	ug/L	<0.0051	0.050	04/17/15 10:43	
Benzo(a)pyrene	ug/L	<0.0044	0.050	04/17/15 10:43	
Benzo(b)fluoranthene	ug/L	<0.0053	0.050	04/17/15 10:43	
Benzo(g,h,i)perylene	ug/L	<0.0035	0.050	04/17/15 10:43	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	04/17/15 10:43	
Chrysene	ug/L	<0.0042	0.050	04/17/15 10:43	
Dibenz(a,h)anthracene	ug/L	<0.0056	0.050	04/17/15 10:43	
Fluoranthene	ug/L	<0.0094	0.050	04/17/15 10:43	
Fluorene	ug/L	<0.0040	0.050	04/17/15 10:43	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	0.050	04/17/15 10:43	
Naphthalene	ug/L	<0.0045	0.050	04/17/15 10:43	
Phenanthrene	ug/L	<0.0077	0.050	04/17/15 10:43	
Pyrene	ug/L	<0.0077	0.050	04/17/15 10:43	
2-Fluorobiphenyl (S)	%	54	40-130	04/17/15 10:43	
Terphenyl-d14 (S)	%	105	26-135	04/17/15 10:43	

LABORATORY CONTROL SAMPLE: 1142017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.2	58	46-130	
2-Methylnaphthalene	ug/L	2	1.2	60	47-130	
Acenaphthene	ug/L	2	1.3	66	49-130	
Acenaphthylene	ug/L	2	1.3	66	44-130	
Anthracene	ug/L	2	1.3	65	53-130	
Benzo(a)anthracene	ug/L	2	1.8	88	49-130	
Benzo(a)pyrene	ug/L	2	1.4	68	47-130	
Benzo(b)fluoranthene	ug/L	2	2.0	99	54-133	
Benzo(g,h,i)perylene	ug/L	2	1.6	79	33-132	
Benzo(k)fluoranthene	ug/L	2	1.6	78	59-143	
Chrysene	ug/L	2	2.0	101	70-157	
Dibenz(a,h)anthracene	ug/L	2	1.5	74	24-130	
Fluoranthene	ug/L	2	1.7	87	59-130	
Fluorene	ug/L	2	1.5	73	49-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

LABORATORY CONTROL SAMPLE: 1142017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L	2	1.9	97	52-130	
Naphthalene	ug/L	2	1.1	56	45-130	
Phenanthrene	ug/L	2	1.4	70	60-130	
Pyrene	ug/L	2	1.9	95	64-147	
2-Fluorobiphenyl (S)	%			62	40-130	
Terphenyl-d14 (S)	%			104	26-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1142018 1142019

Parameter	Units	40113122007		MSD		MSD		MSD		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
1-Methylnaphthalene	ug/L	0.0099J	1.9	1.9	1.1	1.0	55	52	27-130	6	42	
2-Methylnaphthalene	ug/L	0.013J	1.9	1.9	1.1	1.0	56	54	33-130	5	37	
Acenaphthene	ug/L	<0.0050	1.9	1.9	1.2	1.1	62	60	32-130	6	35	
Acenaphthylene	ug/L	0.0052J	1.9	1.9	1.2	1.1	62	59	34-130	6	29	
Anthracene	ug/L	0.011J	1.9	1.9	1.2	1.2	62	60	31-130	4	29	
Benzo(a)anthracene	ug/L	<0.0051	1.9	1.9	1.6	1.5	81	79	35-135	3	20	
Benzo(a)pyrene	ug/L	<0.0044	1.9	1.9	1.2	1.2	64	63	21-139	3	22	
Benzo(b)fluoranthene	ug/L	<0.0053	1.9	1.9	1.6	1.6	81	83	26-144	2	20	
Benzo(g,h,i)perylene	ug/L	<0.0035	1.9	1.9	1.2	1.1	59	57	10-142	5	20	
Benzo(k)fluoranthene	ug/L	<0.0056	1.9	1.9	1.3	1.4	69	71	21-155	3	20	
Chrysene	ug/L	<0.0042	1.9	1.9	1.7	1.8	88	95	46-157	7	20	
Dibenz(a,h)anthracene	ug/L	<0.0056	1.9	1.9	1.1	1.0	59	53	10-143	12	20	
Fluoranthene	ug/L	<0.0094	1.9	1.9	1.5	1.6	77	82	35-138	6	20	
Fluorene	ug/L	<0.0040	1.9	1.9	1.3	1.2	67	65	28-130	5	27	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	1.9	1.9	1.5	1.4	77	71	16-139	10	20	
Naphthalene	ug/L	0.017J	1.9	1.9	1.0	1.0	53	51	35-130	4	39	
Phenanthrene	ug/L	<0.0077	1.9	1.9	1.3	1.3	66	65	41-131	3	22	
Pyrene	ug/L	<0.0077	1.9	1.9	1.6	1.6	80	85	50-151	6	20	
2-Fluorobiphenyl (S)	%						57	54	40-130			
Terphenyl-d14 (S)	%						90	90	26-135			

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

QC Batch: WETA/28091 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40113122001, 40113122002, 40113122003

METHOD BLANK: 1143572 Matrix: Water  
Associated Lab Samples: 40113122001, 40113122002, 40113122003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	4.0	04/21/15 13:23	

LABORATORY CONTROL SAMPLE: 1143573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.3	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143574 1143575

Parameter	Units	40112962016 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Sulfate	mg/L	<10.0	100	100	104	104	96	95	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143576 1143577

Parameter	Units	40113122003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Sulfate	mg/L	112	200	200	304	304	96	96	90-110	0	20	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

QC Batch: WETA/28108 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40113122004, 40113122005, 40113122006, 40113122007, 40113122008, 40113122009, 40113122010, 40113122011, 40113122012, 40113122013, 40113122014, 40113122015, 40113122016

METHOD BLANK: 1144133 Matrix: Water  
Associated Lab Samples: 40113122004, 40113122005, 40113122006, 40113122007, 40113122008, 40113122009, 40113122010, 40113122011, 40113122012, 40113122013, 40113122014, 40113122015, 40113122016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	4.0	04/23/15 12:39	

LABORATORY CONTROL SAMPLE: 1144134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144135 1144136

Parameter	Units	40113122004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	124	100	100	225	223	101	100	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144137 1144138

Parameter	Units	40113122007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	93.5	400	400	470	473	94	95	90-110	1	20	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

QC Batch: WETA/28085 Analysis Method: EPA 310.2  
 QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
 Associated Lab Samples: 40113122001, 40113122002, 40113122003, 40113122004, 40113122005, 40113122006, 40113122007, 40113122008, 40113122009, 40113122010, 40113122011, 40113122012, 40113122013, 40113122014, 40113122015, 40113122016

METHOD BLANK: 1142968 Matrix: Water  
 Associated Lab Samples: 40113122001, 40113122002, 40113122003, 40113122004, 40113122005, 40113122006, 40113122007, 40113122008, 40113122009, 40113122010, 40113122011, 40113122012, 40113122013, 40113122014, 40113122015, 40113122016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<7.5	20.0	04/17/15 12:00	

LABORATORY CONTROL SAMPLE: 1142969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	100	99.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1142970 1142971

Parameter	Units	40113122007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	306	500	500	827	805	104	100	90-110	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1142972 1142973

Parameter	Units	40113167001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	6070	10000	10000	15900	16000	98	99	90-110	1	20	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

QC Batch: WETA/28109 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 40113122001, 40113122002, 40113122003, 40113122004, 40113122005, 40113122006, 40113122007, 40113122008, 40113122009, 40113122010, 40113122011, 40113122012, 40113122013, 40113122014, 40113122015, 40113122016

METHOD BLANK: 1144153 Matrix: Water  
Associated Lab Samples: 40113122001, 40113122002, 40113122003, 40113122004, 40113122005, 40113122006, 40113122007, 40113122008, 40113122009, 40113122010, 40113122011, 40113122012, 40113122013, 40113122014, 40113122015, 40113122016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	04/21/15 11:14	

LABORATORY CONTROL SAMPLE: 1144154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.6	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144155 1144156

Parameter	Units	40113122007		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	Spike Conc.	Result	MS Result	MSD Result	% Rec	% Rec				
Nitrogen, NO2 plus NO3	mg/L	8.2	12.5	12.5	22.0	21.3	110	105	90-110	3	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144157 1144158

Parameter	Units	40113122016		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	Spike Conc.	Result	MS Result	MSD Result	% Rec	% Rec				
Nitrogen, NO2 plus NO3	mg/L	8.4	12.5	12.5	21.8	22.0	107	109	90-110	1	20		

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## QUALIFIERS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40113122

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### WORKORDER QUALIFIERS

WO: 40113122

[1] This report has been modified per client request.

### ANALYTE QUALIFIERS

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

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: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40113122001	041315001	EPA 8015B Modified	GCV/14261		
40113122002	041315002	EPA 8015B Modified	GCV/14261		
40113122003	041315003	EPA 8015B Modified	GCV/14261		
40113122004	041315004	EPA 8015B Modified	GCV/14261		
40113122005	041315005	EPA 8015B Modified	GCV/14261		
40113122006	041315006	EPA 8015B Modified	GCV/14261		
40113122007	041315007	EPA 8015B Modified	GCV/14261		
40113122008	041315008	EPA 8015B Modified	GCV/14261		
40113122009	041315009	EPA 8015B Modified	GCV/14261		
40113122010	041315010	EPA 8015B Modified	GCV/14261		
40113122011	041315011	EPA 8015B Modified	GCV/14261		
40113122012	041415012	EPA 8015B Modified	GCV/14261		
40113122013	041415013	EPA 8015B Modified	GCV/14261		
40113122014	041415014	EPA 8015B Modified	GCV/14261		
40113122015	041415015	EPA 8015B Modified	GCV/14261		
40113122016	041415016	EPA 8015B Modified	GCV/14261		
40113122001	041315001	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122002	041315002	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122003	041315003	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122004	041315004	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122005	041315005	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122006	041315006	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122007	041315007	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122008	041315008	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122009	041315009	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122010	041315010	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122011	041315011	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122012	041415012	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122013	041415013	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122014	041415014	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122015	041415015	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122016	041415016	EPA 3010	MPRP/11753	EPA 6020	ICPM/5445
40113122001	041315001	EPA 3510	OEXT/26244	EPA 8270 by HVI	MSSV/7790
40113122002	041315002	EPA 3510	OEXT/26244	EPA 8270 by HVI	MSSV/7790
40113122003	041315003	EPA 3510	OEXT/26244	EPA 8270 by HVI	MSSV/7790
40113122004	041315004	EPA 3510	OEXT/26244	EPA 8270 by HVI	MSSV/7790
40113122005	041315005	EPA 3510	OEXT/26244	EPA 8270 by HVI	MSSV/7790
40113122006	041315006	EPA 3510	OEXT/26244	EPA 8270 by HVI	MSSV/7790
40113122007	041315007	EPA 3510	OEXT/26245	EPA 8270 by HVI	MSSV/7791
40113122008	041315008	EPA 3510	OEXT/26245	EPA 8270 by HVI	MSSV/7791
40113122009	041315009	EPA 3510	OEXT/26245	EPA 8270 by HVI	MSSV/7791
40113122010	041315010	EPA 3510	OEXT/26245	EPA 8270 by HVI	MSSV/7791
40113122011	041315011	EPA 3510	OEXT/26245	EPA 8270 by HVI	MSSV/7791
40113122012	041415012	EPA 3510	OEXT/26245	EPA 8270 by HVI	MSSV/7791
40113122013	041415013	EPA 3510	OEXT/26245	EPA 8270 by HVI	MSSV/7791
40113122014	041415014	EPA 3510	OEXT/26245	EPA 8270 by HVI	MSSV/7791
40113122015	041415015	EPA 3510	OEXT/26245	EPA 8270 by HVI	MSSV/7791

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40113122016	041415016	EPA 3510	OEXT/26245	EPA 8270 by HVI	MSSV/7791
40113122001	041315001	EPA 8260	MSV/28065		
40113122002	041315002	EPA 8260	MSV/28065		
40113122003	041315003	EPA 8260	MSV/28065		
40113122004	041315004	EPA 8260	MSV/28065		
40113122005	041315005	EPA 8260	MSV/28065		
40113122006	041315006	EPA 8260	MSV/28065		
40113122007	041315007	EPA 8260	MSV/28075		
40113122008	041315008	EPA 8260	MSV/28065		
40113122009	041315009	EPA 8260	MSV/28065		
40113122010	041315010	EPA 8260	MSV/28065		
40113122011	041315011	EPA 8260	MSV/28065		
40113122012	041415012	EPA 8260	MSV/28075		
40113122013	041415013	EPA 8260	MSV/28075		
40113122014	041415014	EPA 8260	MSV/28075		
40113122015	041415015	EPA 8260	MSV/28075		
40113122016	041415016	EPA 8260	MSV/28075		
40113122017	041415017	EPA 8260	MSV/28075		
40113122018	041415018	EPA 8260	MSV/28075		
40113122001	041315001	EPA 300.0	WETA/28091		
40113122002	041315002	EPA 300.0	WETA/28091		
40113122003	041315003	EPA 300.0	WETA/28091		
40113122004	041315004	EPA 300.0	WETA/28108		
40113122005	041315005	EPA 300.0	WETA/28108		
40113122006	041315006	EPA 300.0	WETA/28108		
40113122007	041315007	EPA 300.0	WETA/28108		
40113122008	041315008	EPA 300.0	WETA/28108		
40113122009	041315009	EPA 300.0	WETA/28108		
40113122010	041315010	EPA 300.0	WETA/28108		
40113122011	041315011	EPA 300.0	WETA/28108		
40113122012	041415012	EPA 300.0	WETA/28108		
40113122013	041415013	EPA 300.0	WETA/28108		
40113122014	041415014	EPA 300.0	WETA/28108		
40113122015	041415015	EPA 300.0	WETA/28108		
40113122016	041415016	EPA 300.0	WETA/28108		
40113122001	041315001	EPA 310.2	WETA/28085		
40113122002	041315002	EPA 310.2	WETA/28085		
40113122003	041315003	EPA 310.2	WETA/28085		
40113122004	041315004	EPA 310.2	WETA/28085		
40113122005	041315005	EPA 310.2	WETA/28085		
40113122006	041315006	EPA 310.2	WETA/28085		
40113122007	041315007	EPA 310.2	WETA/28085		
40113122008	041315008	EPA 310.2	WETA/28085		
40113122009	041315009	EPA 310.2	WETA/28085		
40113122010	041315010	EPA 310.2	WETA/28085		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40113122

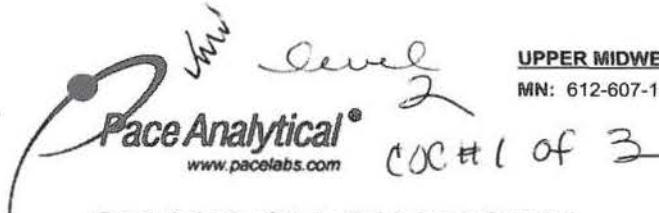
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40113122011	041315011	EPA 310.2	WETA/28085		
40113122012	041415012	EPA 310.2	WETA/28085		
40113122013	041415013	EPA 310.2	WETA/28085		
40113122014	041415014	EPA 310.2	WETA/28085		
40113122015	041415015	EPA 310.2	WETA/28085		
40113122016	041415016	EPA 310.2	WETA/28085		
40113122001	041315001	EPA 353.2	WETA/28109		
40113122002	041315002	EPA 353.2	WETA/28109		
40113122003	041315003	EPA 353.2	WETA/28109		
40113122004	041315004	EPA 353.2	WETA/28109		
40113122005	041315005	EPA 353.2	WETA/28109		
40113122006	041315006	EPA 353.2	WETA/28109		
40113122007	041315007	EPA 353.2	WETA/28109		
40113122008	041315008	EPA 353.2	WETA/28109		
40113122009	041315009	EPA 353.2	WETA/28109		
40113122010	041315010	EPA 353.2	WETA/28109		
40113122011	041315011	EPA 353.2	WETA/28109		
40113122012	041415012	EPA 353.2	WETA/28109		
40113122013	041415013	EPA 353.2	WETA/28109		
40113122014	041415014	EPA 353.2	WETA/28109		
40113122015	041415015	EPA 353.2	WETA/28109		
40113122016	041415016	EPA 353.2	WETA/28109		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Natural Resource Kief  
 Branch/Location: Milwaukee WI  
 Project Contact: Brian Hennings  
 Phone: 262-719-4508  
 Project Number: 1549  
 Project Name: Marquette MGP  
 Project State: WI  
 Sampled By (Print): Sarah Ganswindt  
 Sampled By (Sign): [Signature]  
 PO #: \_\_\_\_\_ Regulatory Program: \_\_\_\_\_



UPPER MIDWEST REGION

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

Page 1 of

4011322

Quote #:

E Mail To Contact: DATA@NaturalRT.com  
 Mail To Company: Natural Resource Kief  
 Mail To Address: 234 West Florida St Milwaukee WI  
 Invoice To Contact: Accounts Payable  
 Invoice To Company: TBS LLC  
 Invoice To Address: PO Box 19800 Green Bay WI  
 Invoice To Phone: 920-433-2929

### CHAIN OF CUSTODY

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

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

Y/N	Pick Letter	Analyses Requested	Matrix
N	A	PAH 8270	GW
N	C	Nitrobenzene	
N	A	353.2 Alkalinity	
N	A	310.2 Sulfate	
Y	J	300 Metals*	
		6020	

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	041315001	4/13/15	1036	GW
002	041315002		1041	
003	041315003		1121	
004	041315004		1207	
005	041315005		1237	
006	041315006		1429	
007	041315007		1516	
008	041315008		1608	
009	041315009		1702	
010	041315010		1757	
011	041315011		1842	
012	041415012	4/14/15	1571	
013	041415013		803	

**CLIENT COMMENTS**  
 3-250mlp<sup>A</sup> 2-100mlg<sup>A</sup> 6-40ml<sup>B</sup>  
 ms/msd dissolved  
 \*Aluminum, Antimony, Copper, nickel, silver  
 Vanadium, Zinc, Iron, Manganese

**LAB COMMENTS (Lab Use Only)**  
 4-100mlg<sup>A</sup> 9-40ml<sup>B</sup>

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

Relinquished By: <u>[Signature]</u>	Date/Time: <u>4-14-15</u>	Received By: <u>Kathleen Wendel</u>	Date/Time: <u>4-14-15 1235</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

PACE Project No. 40113122  
 Receipt Temp = RO °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present  
 Intact / Not Intact

Cooler Custody Seal 1549001 & 1549002

(Please Print Clearly)

Company Name: Natural Resource Keep  
 Branch/Location: Milwaukee WI  
 Project Contact: Brian Hennings  
 Phone: 262-719-4508  
 Project Number: 1549  
 Project Name: Marinette <sup>FORME</sup> MGP  
 Project State: WI  
 Sampled By (Print): Sarah Ganswindt  
 Sampled By (Sign): [Signature]  
 PO #: \_\_\_\_\_ Regulatory Program: \_\_\_\_\_



UPPER MIDWEST REGION

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

NCR-02-2015

### CHAIN OF CUSTODY

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

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

Y/N	Pick Letter	Analyses Requested
N	A	PAH 8270
N	C	Nitrate Nit. 353.2
N	A	Alkalinity
N	A	310.2
X	X	Sulfate 300
		Metals * 6020
		BTEX 8260
		Methane 8015

**Quote #:** \_\_\_\_\_  
**Mail To Contact:** Data@naturalrt.com  
**Mail To Company:** Natural Resource Keep  
**Mail To Address:** 234 W Florida  
Milwaukee WI  
**Invoice To Contact:** Accounts Payable  
**Invoice To Company:** IBS LLC  
**Invoice To Address:** 19800  
Green Bay WI  
**Invoice To Phone:** 920 433-2929

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	Pick Letter	Analyses Requested
		DATE	TIME				
014	041415014	04/14/15	851	GW			
015	041415015		856				
016	041415016		936				
017	041415017		1015				
018	041415018		(-)				

**CLIENT COMMENTS**  
 3-250mlp<sup>ACD</sup>  
 ↓  
 Trip Blank

**LAB COMMENTS (Lab Use Only)**  
 2-100mlag<sup>A</sup> 6-40ml<sup>B</sup>  
 ↓  
 3-40ml<sup>B</sup>  
 1-40ml<sup>B</sup>

Dissolved  
 \*Metals include Aluminum, Antimony, Copper, Nickel, Silver, Vanadium, Zinc, Iron & Manganese

1235

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_

Transmit Prelim Rush Results by (complete what you want): \_\_\_\_\_

Relinquished By: [Signature] Date/Time: 4-14-15  
 Received By: Kathleen Wendel Date/Time: 4/14/15 7:38

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

PACE Project No. 40113122  
 Receipt Temp = 20.1 °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present  
Intact / Not Intact

Custody seal 1549003 \$1549.004





Sample Condition Upon Receipt

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

**Pace Analytical**

Project #: **WO#: 40113122**

Client Name: NRT



Courier:  Fed Ex  UPS  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: N/A Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: RO / Corr: \_\_\_\_\_ Biological Tissue is Frozen:  Yes  No

Temp Blank Present:  Yes  No  No

Person examining contents:  
Date: 4-14-15  
Initials: KEW

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°C.

Comments:

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4. No signature on page 3 kw 4-14-15
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>kw</u> Lab Std #ID of preservative: _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
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>covered</u>		

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

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: [Signature]

Date: 4-14-15

December 09, 2015

Brian Hennings  
NATURAL RESOURCE TECHNOLOGY  
234 W. Florida St, 5th Floor  
Milwaukee, WI 53204

RE: Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

Dear Brian Hennings:

Enclosed are the analytical results for sample(s) received by the laboratory on October 28, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,



Steven Mleczko for  
Brian Basten  
brian.basten@pacelabs.com  
Project Manager

Enclosures

cc: NRT Data, Natural Resource Technologies



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

---

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40123659001	102615001	Water	10/26/15 12:24	10/28/15 10:00
40123659002	102615002	Water	10/26/15 18:06	10/28/15 10:00
40123659003	102715003	Water	10/27/15 07:07	10/28/15 10:00
40123659004	102715004	Water	10/27/15 08:10	10/28/15 10:00
40123659005	102715005	Water	10/27/15 08:47	10/28/15 10:00
40123659006	102715006	Water	10/27/15 08:52	10/28/15 10:00
40123659007	102715007	Water	10/27/15 09:31	10/28/15 10:00
40123659008	102715008	Water	10/27/15 10:20	10/28/15 10:00
40123659009	102715009	Water	10/27/15 11:06	10/28/15 10:00
40123659010	102715010	Water	10/27/15 11:49	10/28/15 10:00
40123659011	102715011	Water	10/27/15 13:00	10/28/15 10:00
40123659012	102715012	Water	10/27/15 13:39	10/28/15 10:00
40123659013	102715013	Water	10/27/15 14:05	10/28/15 10:00
40123659014	102715014	Water	10/27/15 15:09	10/28/15 10:00
40123659015	102715015	Water	10/27/15 15:14	10/28/15 10:00
40123659016	102715016	Water	10/27/15 15:50	10/28/15 10:00
40123659017	102715017	Water	10/27/15 16:43	10/28/15 10:00
40123659018	102715018	Water	10/27/15 17:20	10/28/15 10:00
40123659019	102715019	Water	10/27/15 17:56	10/28/15 10:00
40123659020	102715020	Water	10/27/15 18:37	10/28/15 10:00
40123659021	102715021	Water	10/27/15 00:00	10/28/15 10:00
40123659022	102715022	Water	10/27/15 18:50	10/28/15 10:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40123659001	102615001	EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40123659002	102615002	EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40123659003	102715003	EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40123659004	102715004	EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40123659005	102715005	EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40123659006	102715006	EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40123659007	102715007	EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
40123659008	102715008	EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KJB	1	PASI-G
40123659009	102715009	EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
40123659010	102715010	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40123659011	102715011	EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40123659012	102715012	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
40123659013	102715013	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
40123659014	102715014	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
40123659015	102715015	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
40123659016	102715016	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40123659017	102715017	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40123659018	102715018	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40123659019	102715019	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40123659020	102715020	EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	KJB	1	PASI-G
		EPA 6020	JBR	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40123659021	102715021	EPA 353.2	DAW	1	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 8260	SMT	9	PASI-G
40123659022	102715022	EPA 8260	SMT	9	PASI-G

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

---

**Method:** EPA 8015B Modified

**Description:** Methane, Ethane, Ethene GCV

**Client:** Natural Resources Technologies

**Date:** December 09, 2015

**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.

**Internal Standards:**

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

**Surrogates:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

QC Batch: GCV/15274

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40123659012

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

- MS (Lab ID: 1249263)
  - Methane
- MSD (Lab ID: 1249264)
  - Methane

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

---

**Method:** EPA 6020  
**Description:** 6020 MET ICPMS, Dissolved  
**Client:** Natural Resources Technologies  
**Date:** December 09, 2015

### General Information:

20 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.

QC Batch: MPRP/12996

B: Analyte was detected in the associated method blank.

- BLANK for HBN 212000 [MPRP/129 (Lab ID: 1267073)]
  - Iron, Dissolved
  - Zinc, Dissolved

### Laboratory Control Spike:

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

### Matrix Spikes:

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

QC Batch: MPRP/12996

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40123659012

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

- MS (Lab ID: 1267075)
  - Iron, Dissolved
- MSD (Lab ID: 1267076)
  - Iron, Dissolved

### Additional Comments:

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

---

**Method:** EPA 8270 by HVI  
**Description:** 8270 MSSV PAH by HVI  
**Client:** Natural Resources Technologies  
**Date:** December 09, 2015

### 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.

### Method Blank:

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

QC Batch: OEXT/28550

B: Analyte was detected in the associated method blank.

- BLANK for HBN 208979 [OEXT/285 (Lab ID: 1250072)]
  - 1-Methylnaphthalene
  - 2-Methylnaphthalene
  - Chrysene
  - Naphthalene
  - Phenanthrene

QC Batch: OEXT/28552

B: Analyte was detected in the associated method blank.

- BLANK for HBN 208998 [OEXT/285 (Lab ID: 1250314)]
  - 1-Methylnaphthalene
  - 2-Methylnaphthalene
  - Naphthalene

### Laboratory Control Spike:

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

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

---

**Method:** EPA 8270 by HVI  
**Description:** 8270 MSSV PAH by HVI  
**Client:** Natural Resources Technologies  
**Date:** December 09, 2015

### Matrix Spikes:

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

QC Batch: OEXT/28550

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40123660010

R1: RPD value was outside control limits.

- MSD (Lab ID: 1250075)
- Benzo(g,h,i)perylene

QC Batch: OEXT/28552

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40123659012

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 1250316)
- Naphthalene
- MSD (Lab ID: 1250317)
- Naphthalene

### Additional Comments:

Batch Comments:

Naphthalene was present above the RDL in the Extraction Blank, samples were either below the RDL for this compound, greater than 20 times the blank value for this compound, or were not able to be re-extracted due to lack of sample hold time.

- QC Batch: MSSV / 8434

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

---

**Method:** EPA 8260  
**Description:** 8260 MSV UST  
**Client:** Natural Resources Technologies  
**Date:** December 09, 2015

### General Information:

22 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: MSV/30953

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

- 102715012 (Lab ID: 40123659012)
  - Dibromofluoromethane (S)

QC Batch: MSV/30954

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

- 102715019 (Lab ID: 40123659019)
  - Dibromofluoromethane (S)

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

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**Method:** EPA 300.0

**Description:** 300.0 IC Anions 28 Days

**Client:** Natural Resources Technologies

**Date:** December 09, 2015

**General Information:**

20 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.

**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.

**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: WETA/31135

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

- 102715012 (Lab ID: 40123659012)
  - Sulfate
- 102715019 (Lab ID: 40123659019)
  - Sulfate

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

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**Method:** EPA 310.2

**Description:** 310.2 Alkalinity

**Client:** Natural Resources Technologies

**Date:** December 09, 2015

### General Information:

20 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.

### 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.

### 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: WETA/31082

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40124038001,40124038002

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

- MS (Lab ID: 1252710)
- Alkalinity, Total as CaCO<sub>3</sub>

### Additional Comments:

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

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**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.

**Client:** Natural Resources Technologies

**Date:** December 09, 2015

### General Information:

20 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.

### 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.

### 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: WETA/31134

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40123659012,40123659020

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

- MS (Lab ID: 1254877)
  - Nitrogen, NO<sub>2</sub> plus NO<sub>3</sub>
- MSD (Lab ID: 1254878)
  - Nitrogen, NO<sub>2</sub> plus NO<sub>3</sub>

### 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: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

**Sample: 102615001**      **Lab ID: 40123659001**      Collected: 10/26/15 12:24      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>9450</b>	ug/L	140	68.5	50		10/30/15 11:52	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 09:03	7429-90-5	
Antimony, Dissolved	<b>0.26J</b>	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 09:03	7440-36-0	
Copper, Dissolved	<b>0.26J</b>	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 09:03	7440-50-8	
Iron, Dissolved	<b>8280</b>	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 09:03	7439-89-6	
Manganese, Dissolved	<b>573</b>	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 09:03	7439-96-5	
Nickel, Dissolved	<b>0.43J</b>	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 09:03	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 09:03	7440-22-4	
Vanadium, Dissolved	<b>1.2</b>	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 09:03	7440-62-2	
Zinc, Dissolved	<b>5.7J</b>	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 09:03	7440-66-6	B
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>0.22</b>	ug/L	0.048	0.0047	1	10/31/15 06:58	11/02/15 10:45	83-32-9	
Acenaphthylene	<b>0.013J</b>	ug/L	0.048	0.0047	1	10/31/15 06:58	11/02/15 10:45	208-96-8	
Anthracene	<b>0.038J</b>	ug/L	0.048	0.0038	1	10/31/15 06:58	11/02/15 10:45	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0049</b>	ug/L	0.048	0.0049	1	10/31/15 06:58	11/02/15 10:45	56-55-3	
Benzo(a)pyrene	<b>&lt;0.0042</b>	ug/L	0.048	0.0042	1	10/31/15 06:58	11/02/15 10:45	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0051</b>	ug/L	0.048	0.0051	1	10/31/15 06:58	11/02/15 10:45	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0033</b>	ug/L	0.048	0.0033	1	10/31/15 06:58	11/02/15 10:45	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0054</b>	ug/L	0.048	0.0054	1	10/31/15 06:58	11/02/15 10:45	207-08-9	
Chrysene	<b>0.0070J</b>	ug/L	0.048	0.0040	1	10/31/15 06:58	11/02/15 10:45	218-01-9	B
Dibenz(a,h)anthracene	<b>&lt;0.0053</b>	ug/L	0.048	0.0053	1	10/31/15 06:58	11/02/15 10:45	53-70-3	
Fluoranthene	<b>0.059</b>	ug/L	0.048	0.0090	1	10/31/15 06:58	11/02/15 10:45	206-44-0	
Fluorene	<b>0.12</b>	ug/L	0.048	0.0038	1	10/31/15 06:58	11/02/15 10:45	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.0034</b>	ug/L	0.048	0.0034	1	10/31/15 06:58	11/02/15 10:45	193-39-5	
1-Methylnaphthalene	<b>0.017J</b>	ug/L	0.048	0.0029	1	10/31/15 06:58	11/02/15 10:45	90-12-0	B
2-Methylnaphthalene	<b>0.0058J</b>	ug/L	0.048	0.0026	1	10/31/15 06:58	11/02/15 10:45	91-57-6	B
Naphthalene	<b>0.021J</b>	ug/L	0.048	0.0043	1	10/31/15 06:58	11/02/15 10:45	91-20-3	B
Phenanthrene	<b>0.028J</b>	ug/L	0.048	0.0073	1	10/31/15 06:58	11/02/15 10:45	85-01-8	B
Pyrene	<b>0.061</b>	ug/L	0.048	0.0073	1	10/31/15 06:58	11/02/15 10:45	129-00-0	
Total PAHs	<b>0.60</b>	ug/L			1	10/31/15 06:58	11/02/15 10:45		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	53	%	40-130		1	10/31/15 06:58	11/02/15 10:45	321-60-8	
Terphenyl-d14 (S)	65	%	26-135		1	10/31/15 06:58	11/02/15 10:45	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 19:35	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 19:35	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 19:35	108-88-3	
Xylene (Total)	<b>&lt;1.5</b>	ug/L	3.0	1.5	1		10/30/15 19:35	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/30/15 19:35	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 19:35	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	70-130		1		10/30/15 19:35	1868-53-7	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

Sample: 102615001      Lab ID: 40123659001      Collected: 10/26/15 12:24      Received: 10/28/15 10:00      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	105	%	70-130		1		10/30/15 19:35	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		10/30/15 19:35	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>4.8</b>	mg/L	4.0	2.0	1		11/09/15 21:40	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>776</b>	mg/L	100	37.5	5		11/05/15 11:36		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		11/09/15 13:04		

Sample: 102615002      Lab ID: 40123659002      Collected: 10/26/15 18:06      Received: 10/28/15 10:00      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>6800</b>	ug/L	140	68.5	50		10/30/15 11:59	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 09:16	7429-90-5	
Antimony, Dissolved	<b>0.089J</b>	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 09:16	7440-36-0	
Copper, Dissolved	<b>0.30J</b>	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 09:16	7440-50-8	
Iron, Dissolved	<b>5490</b>	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 09:16	7439-89-6	
Manganese, Dissolved	<b>657</b>	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 09:16	7439-96-5	
Nickel, Dissolved	<b>0.92J</b>	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 09:16	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 09:16	7440-22-4	
Vanadium, Dissolved	<b>1.5</b>	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 09:16	7440-62-2	
Zinc, Dissolved	<b>7.0J</b>	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 09:16	7440-66-6	B
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>0.073</b>	ug/L	0.047	0.0047	1	10/31/15 06:58	11/02/15 20:26	83-32-9	
Acenaphthylene	<b>0.0050J</b>	ug/L	0.047	0.0047	1	10/31/15 06:58	11/02/15 20:26	208-96-8	
Anthracene	<b>&lt;0.0038</b>	ug/L	0.047	0.0038	1	10/31/15 06:58	11/02/15 20:26	120-12-7	
Benzo(a)anthracene	<b>0.0088J</b>	ug/L	0.047	0.0048	1	10/31/15 06:58	11/02/15 20:26	56-55-3	
Benzo(a)pyrene	<b>&lt;0.0042</b>	ug/L	0.047	0.0042	1	10/31/15 06:58	11/02/15 20:26	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0050</b>	ug/L	0.047	0.0050	1	10/31/15 06:58	11/02/15 20:26	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0033</b>	ug/L	0.047	0.0033	1	10/31/15 06:58	11/02/15 20:26	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0053</b>	ug/L	0.047	0.0053	1	10/31/15 06:58	11/02/15 20:26	207-08-9	
Chrysene	<b>0.0093J</b>	ug/L	0.047	0.0040	1	10/31/15 06:58	11/02/15 20:26	218-01-9	B
Dibenz(a,h)anthracene	<b>&lt;0.0052</b>	ug/L	0.047	0.0052	1	10/31/15 06:58	11/02/15 20:26	53-70-3	
Fluoranthene	<b>&lt;0.0089</b>	ug/L	0.047	0.0089	1	10/31/15 06:58	11/02/15 20:26	206-44-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

**Sample: 102615002**      **Lab ID: 40123659002**      Collected: 10/26/15 18:06      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Fluorene	<b>0.012J</b>	ug/L	0.047	0.0038	1	10/31/15 06:58	11/02/15 20:26	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.0034</b>	ug/L	0.047	0.0034	1	10/31/15 06:58	11/02/15 20:26	193-39-5	
1-Methylnaphthalene	<b>0.0082J</b>	ug/L	0.047	0.0029	1	10/31/15 06:58	11/02/15 20:26	90-12-0	B
2-Methylnaphthalene	<b>0.0029J</b>	ug/L	0.047	0.0026	1	10/31/15 06:58	11/02/15 20:26	91-57-6	B
Naphthalene	<b>0.015J</b>	ug/L	0.047	0.0043	1	10/31/15 06:58	11/02/15 20:26	91-20-3	B
Phenanthrene	<b>0.026J</b>	ug/L	0.047	0.0072	1	10/31/15 06:58	11/02/15 20:26	85-01-8	B
Pyrene	<b>0.0098J</b>	ug/L	0.047	0.0073	1	10/31/15 06:58	11/02/15 20:26	129-00-0	
Total PAHs	<b>0.19</b>	ug/L			1	10/31/15 06:58	11/02/15 20:26		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	57	%	40-130		1	10/31/15 06:58	11/02/15 20:26	321-60-8	
Terphenyl-d14 (S)	75	%	26-135		1	10/31/15 06:58	11/02/15 20:26	1718-51-0	

<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 19:57	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 19:57	100-41-4	
Toluene	<b>3.7</b>	ug/L	1.0	0.50	1		10/30/15 19:57	108-88-3	
Xylene (Total)	<b>&lt;1.5</b>	ug/L	3.0	1.5	1		10/30/15 19:57	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/30/15 19:57	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 19:57	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	70-130		1		10/30/15 19:57	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/30/15 19:57	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		10/30/15 19:57	460-00-4	

<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>3.7J</b>	mg/L	4.0	2.0	1		11/09/15 21:52	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>639</b>	mg/L	100	37.5	5		11/05/15 11:37		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		11/09/15 13:05		

**Sample: 102715003**      **Lab ID: 40123659003**      Collected: 10/27/15 07:07      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>2650</b>	ug/L	70.0	34.2	25		10/30/15 12:06	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 09:22	7429-90-5	
Antimony, Dissolved	<b>&lt;0.073</b>	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 09:22	7440-36-0	
Copper, Dissolved	<b>0.89J</b>	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 09:22	7440-50-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
 Lab Project No.: 40123659

**Sample: 102715003**      **Lab ID: 40123659003**      Collected: 10/27/15 07:07      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Iron, Dissolved	<b>34000</b>	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 09:22	7439-89-6	
Manganese, Dissolved	<b>1530</b>	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 09:22	7439-96-5	
Nickel, Dissolved	<b>1.9</b>	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 09:22	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 09:22	7440-22-4	
Vanadium, Dissolved	<b>5.1</b>	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 09:22	7440-62-2	
Zinc, Dissolved	<b>8.4J</b>	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 09:22	7440-66-6	B
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<b>1.4</b>	ug/L	0.048	0.0048	1	11/02/15 12:00	11/02/15 20:43	83-32-9	
Acenaphthylene	<b>0.044J</b>	ug/L	0.048	0.0048	1	11/02/15 12:00	11/02/15 20:43	208-96-8	
Anthracene	<b>0.040J</b>	ug/L	0.048	0.0039	1	11/02/15 12:00	11/02/15 20:43	120-12-7	
Benzo(a)anthracene	<b>0.0063J</b>	ug/L	0.048	0.0049	1	11/02/15 12:00	11/02/15 20:43	56-55-3	
Benzo(a)pyrene	<b>&lt;0.0042</b>	ug/L	0.048	0.0042	1	11/02/15 12:00	11/02/15 20:43	50-32-8	
Benzo(b)fluoranthene	<b>0.0053J</b>	ug/L	0.048	0.0051	1	11/02/15 12:00	11/02/15 20:43	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0034</b>	ug/L	0.048	0.0034	1	11/02/15 12:00	11/02/15 20:43	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0054</b>	ug/L	0.048	0.0054	1	11/02/15 12:00	11/02/15 20:43	207-08-9	
Chrysene	<b>0.012J</b>	ug/L	0.048	0.0041	1	11/02/15 12:00	11/02/15 20:43	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0053</b>	ug/L	0.048	0.0053	1	11/02/15 12:00	11/02/15 20:43	53-70-3	
Fluoranthene	<b>0.099</b>	ug/L	0.048	0.0090	1	11/02/15 12:00	11/02/15 20:43	206-44-0	
Fluorene	<b>0.40</b>	ug/L	0.048	0.0039	1	11/02/15 12:00	11/02/15 20:43	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.0034</b>	ug/L	0.048	0.0034	1	11/02/15 12:00	11/02/15 20:43	193-39-5	
1-Methylnaphthalene	<b>0.83</b>	ug/L	0.048	0.0030	1	11/02/15 12:00	11/02/15 20:43	90-12-0	
2-Methylnaphthalene	<b>0.13</b>	ug/L	0.048	0.0026	1	11/02/15 12:00	11/02/15 20:43	91-57-6	B
Naphthalene	<b>2.7</b>	ug/L	0.048	0.0044	1	11/02/15 12:00	11/02/15 20:43	91-20-3	
Phenanthrene	<b>0.046J</b>	ug/L	0.048	0.0074	1	11/02/15 12:00	11/02/15 20:43	85-01-8	
Pyrene	<b>0.10</b>	ug/L	0.048	0.0074	1	11/02/15 12:00	11/02/15 20:43	129-00-0	
Total PAHs	<b>5.9</b>	ug/L			1	11/02/15 12:00	11/02/15 20:43		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	56	%	40-130		1	11/02/15 12:00	11/02/15 20:43	321-60-8	
Terphenyl-d14 (S)	71	%	26-135		1	11/02/15 12:00	11/02/15 20:43	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 20:19	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 20:19	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 20:19	108-88-3	
Xylene (Total)	<b>&lt;1.5</b>	ug/L	3.0	1.5	1		10/30/15 20:19	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/30/15 20:19	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 20:19	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	70-130		1		10/30/15 20:19	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		10/30/15 20:19	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		10/30/15 20:19	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>15.8</b>	mg/L	4.0	2.0	1		11/09/15 22:05	14808-79-8	

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## ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

**Sample: 102715003**      **Lab ID: 40123659003**      Collected: 10/27/15 07:07      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>653</b>	mg/L	100	37.5	5		11/05/15 11:38		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		11/09/15 13:08		

**Sample: 102715004**      **Lab ID: 40123659004**      Collected: 10/27/15 08:10      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>&lt;1.4</b>	ug/L	2.8	1.4	1		10/30/15 08:42	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 09:29	7429-90-5	
Antimony, Dissolved	<b>&lt;0.073</b>	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 09:29	7440-36-0	
Copper, Dissolved	<b>3.4</b>	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 09:29	7440-50-8	
Iron, Dissolved	<b>176J</b>	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 09:29	7439-89-6	B
Manganese, Dissolved	<b>2.6</b>	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 09:29	7439-96-5	
Nickel, Dissolved	<b>0.93J</b>	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 09:29	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 09:29	7440-22-4	
Vanadium, Dissolved	<b>&lt;0.15</b>	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 09:29	7440-62-2	
Zinc, Dissolved	<b>10.1</b>	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 09:29	7440-66-6	B
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0047</b>	ug/L	0.047	0.0047	1	11/02/15 12:00	11/03/15 14:17	83-32-9	
Acenaphthylene	<b>&lt;0.0047</b>	ug/L	0.047	0.0047	1	11/02/15 12:00	11/03/15 14:17	208-96-8	
Anthracene	<b>0.0048J</b>	ug/L	0.047	0.0038	1	11/02/15 12:00	11/03/15 14:17	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0048</b>	ug/L	0.047	0.0048	1	11/02/15 12:00	11/03/15 14:17	56-55-3	
Benzo(a)pyrene	<b>&lt;0.0042</b>	ug/L	0.047	0.0042	1	11/02/15 12:00	11/03/15 14:17	50-32-8	
Benzo(b)fluoranthene	<b>0.0051J</b>	ug/L	0.047	0.0050	1	11/02/15 12:00	11/03/15 14:17	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0033</b>	ug/L	0.047	0.0033	1	11/02/15 12:00	11/03/15 14:17	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0053</b>	ug/L	0.047	0.0053	1	11/02/15 12:00	11/03/15 14:17	207-08-9	
Chrysene	<b>&lt;0.0040</b>	ug/L	0.047	0.0040	1	11/02/15 12:00	11/03/15 14:17	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0052</b>	ug/L	0.047	0.0052	1	11/02/15 12:00	11/03/15 14:17	53-70-3	
Fluoranthene	<b>&lt;0.0089</b>	ug/L	0.047	0.0089	1	11/02/15 12:00	11/03/15 14:17	206-44-0	
Fluorene	<b>&lt;0.0038</b>	ug/L	0.047	0.0038	1	11/02/15 12:00	11/03/15 14:17	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.0034</b>	ug/L	0.047	0.0034	1	11/02/15 12:00	11/03/15 14:17	193-39-5	
1-Methylnaphthalene	<b>&lt;0.0029</b>	ug/L	0.047	0.0029	1	11/02/15 12:00	11/03/15 14:17	90-12-0	B
2-Methylnaphthalene	<b>0.0032J</b>	ug/L	0.047	0.0026	1	11/02/15 12:00	11/03/15 14:17	91-57-6	B
Naphthalene	<b>0.0071J</b>	ug/L	0.047	0.0043	1	11/02/15 12:00	11/03/15 14:17	91-20-3	B
Phenanthrene	<b>0.011J</b>	ug/L	0.047	0.0072	1	11/02/15 12:00	11/03/15 14:17	85-01-8	
Pyrene	<b>0.0090J</b>	ug/L	0.047	0.0073	1	11/02/15 12:00	11/03/15 14:17	129-00-0	
Total PAHs	<b>0.069</b>	ug/L			1	11/02/15 12:00	11/03/15 14:17		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

**Sample: 102715004**      **Lab ID: 40123659004**      Collected: 10/27/15 08:10      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	59	%	40-130		1	11/02/15 12:00	11/03/15 14:17	321-60-8	
Terphenyl-d14 (S)	84	%	26-135		1	11/02/15 12:00	11/03/15 14:17	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/15 20:41	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/15 20:41	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/15 20:41	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/30/15 20:41	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/15 20:41	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/15 20:41	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	104	%	70-130		1		10/30/15 20:41	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		10/30/15 20:41	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		10/30/15 20:41	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	102	mg/L	20.0	10.0	5		11/10/15 15:07	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	309	mg/L	20.0	7.5	1		11/05/15 10:34		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	9.2	mg/L	0.25	0.095	1		11/09/15 13:09		

**Sample: 102715005**      **Lab ID: 40123659005**      Collected: 10/27/15 08:47      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	45.3	ug/L	2.8	1.4	1		10/30/15 08:49	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 09:35	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 09:35	7440-36-0	
Copper, Dissolved	1.8	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 09:35	7440-50-8	
Iron, Dissolved	1460	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 09:35	7439-89-6	
Manganese, Dissolved	557	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 09:35	7439-96-5	
Nickel, Dissolved	0.79J	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 09:35	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 09:35	7440-22-4	
Vanadium, Dissolved	1.2	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 09:35	7440-62-2	
Zinc, Dissolved	8.8J	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 09:35	7440-66-6	B

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

**Sample: 102715005**      **Lab ID: 40123659005**      Collected: 10/27/15 08:47      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<0.0046	ug/L	0.047	0.0046	1	11/02/15 12:00	11/03/15 14:34	83-32-9	
Acenaphthylene	<0.0046	ug/L	0.047	0.0046	1	11/02/15 12:00	11/03/15 14:34	208-96-8	
Anthracene	<0.0038	ug/L	0.047	0.0038	1	11/02/15 12:00	11/03/15 14:34	120-12-7	
Benzo(a)anthracene	<0.0048	ug/L	0.047	0.0048	1	11/02/15 12:00	11/03/15 14:34	56-55-3	
Benzo(a)pyrene	<0.0041	ug/L	0.047	0.0041	1	11/02/15 12:00	11/03/15 14:34	50-32-8	
Benzo(b)fluoranthene	<0.0050	ug/L	0.047	0.0050	1	11/02/15 12:00	11/03/15 14:34	205-99-2	
Benzo(g,h,i)perylene	<0.0033	ug/L	0.047	0.0033	1	11/02/15 12:00	11/03/15 14:34	191-24-2	
Benzo(k)fluoranthene	<0.0053	ug/L	0.047	0.0053	1	11/02/15 12:00	11/03/15 14:34	207-08-9	
Chrysene	<0.0040	ug/L	0.047	0.0040	1	11/02/15 12:00	11/03/15 14:34	218-01-9	
Dibenz(a,h)anthracene	<0.0052	ug/L	0.047	0.0052	1	11/02/15 12:00	11/03/15 14:34	53-70-3	
Fluoranthene	<0.0088	ug/L	0.047	0.0088	1	11/02/15 12:00	11/03/15 14:34	206-44-0	
Fluorene	<0.0038	ug/L	0.047	0.0038	1	11/02/15 12:00	11/03/15 14:34	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0033	ug/L	0.047	0.0033	1	11/02/15 12:00	11/03/15 14:34	193-39-5	
1-Methylnaphthalene	<0.0029	ug/L	0.047	0.0029	1	11/02/15 12:00	11/03/15 14:34	90-12-0	
2-Methylnaphthalene	0.0029J	ug/L	0.047	0.0026	1	11/02/15 12:00	11/03/15 14:34	91-57-6	B
Naphthalene	0.0074J	ug/L	0.047	0.0042	1	11/02/15 12:00	11/03/15 14:34	91-20-3	B
Phenanthrene	<0.0072	ug/L	0.047	0.0072	1	11/02/15 12:00	11/03/15 14:34	85-01-8	
Pyrene	<0.0072	ug/L	0.047	0.0072	1	11/02/15 12:00	11/03/15 14:34	129-00-0	
Total PAHs	0.028	ug/L			1	11/02/15 12:00	11/03/15 14:34		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	49	%	40-130		1	11/02/15 12:00	11/03/15 14:34	321-60-8	
Terphenyl-d14 (S)	80	%	26-135		1	11/02/15 12:00	11/03/15 14:34	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/15 21:03	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/15 21:03	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/15 21:03	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/30/15 21:03	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/15 21:03	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/15 21:03	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	70-130		1		10/30/15 21:03	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		10/30/15 21:03	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		10/30/15 21:03	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	64.3	mg/L	20.0	10.0	5		11/10/15 15:20	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub>	268	mg/L	20.0	7.5	1		11/05/15 10:34		
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO <sub>2</sub> plus NO <sub>3</sub>	<0.095	mg/L	0.25	0.095	1		11/09/15 13:10		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

**Sample: 102715006**      **Lab ID: 40123659006**      Collected: 10/27/15 08:52      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	51.2	ug/L	2.8	1.4	1		10/30/15 08:56	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<0.073	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 09:41	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 09:41	7440-36-0	
Copper, Dissolved	1.1	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 09:41	7440-50-8	
Iron, Dissolved	1430	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 09:41	7439-89-6	
Manganese, Dissolved	519	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 09:41	7439-96-5	
Nickel, Dissolved	0.51J	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 09:41	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 09:41	7440-22-4	
Vanadium, Dissolved	1.0	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 09:41	7440-62-2	
Zinc, Dissolved	4.9J	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 09:41	7440-66-6	B
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<0.0049	ug/L	0.049	0.0049	1	11/02/15 12:00	11/03/15 14:50	83-32-9	
Acenaphthylene	<0.0048	ug/L	0.049	0.0048	1	11/02/15 12:00	11/03/15 14:50	208-96-8	
Anthracene	<0.0040	ug/L	0.049	0.0040	1	11/02/15 12:00	11/03/15 14:50	120-12-7	
Benzo(a)anthracene	<0.0050	ug/L	0.049	0.0050	1	11/02/15 12:00	11/03/15 14:50	56-55-3	
Benzo(a)pyrene	<0.0043	ug/L	0.049	0.0043	1	11/02/15 12:00	11/03/15 14:50	50-32-8	
Benzo(b)fluoranthene	0.0061J	ug/L	0.049	0.0052	1	11/02/15 12:00	11/03/15 14:50	205-99-2	
Benzo(g,h,i)perylene	<0.0034	ug/L	0.049	0.0034	1	11/02/15 12:00	11/03/15 14:50	191-24-2	
Benzo(k)fluoranthene	<0.0055	ug/L	0.049	0.0055	1	11/02/15 12:00	11/03/15 14:50	207-08-9	
Chrysene	0.0063J	ug/L	0.049	0.0042	1	11/02/15 12:00	11/03/15 14:50	218-01-9	
Dibenz(a,h)anthracene	<0.0055	ug/L	0.049	0.0055	1	11/02/15 12:00	11/03/15 14:50	53-70-3	
Fluoranthene	<0.0092	ug/L	0.049	0.0092	1	11/02/15 12:00	11/03/15 14:50	206-44-0	
Fluorene	<0.0040	ug/L	0.049	0.0040	1	11/02/15 12:00	11/03/15 14:50	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0035	ug/L	0.049	0.0035	1	11/02/15 12:00	11/03/15 14:50	193-39-5	
1-Methylnaphthalene	0.0065J	ug/L	0.049	0.0030	1	11/02/15 12:00	11/03/15 14:50	90-12-0	B
2-Methylnaphthalene	0.0040J	ug/L	0.049	0.0027	1	11/02/15 12:00	11/03/15 14:50	91-57-6	B
Naphthalene	0.0096J	ug/L	0.049	0.0044	1	11/02/15 12:00	11/03/15 14:50	91-20-3	B
Phenanthrene	0.012J	ug/L	0.049	0.0075	1	11/02/15 12:00	11/03/15 14:50	85-01-8	
Pyrene	0.0081J	ug/L	0.049	0.0075	1	11/02/15 12:00	11/03/15 14:50	129-00-0	
Total PAHs	0.072	ug/L			1	11/02/15 12:00	11/03/15 14:50		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	59	%	40-130		1	11/02/15 12:00	11/03/15 14:50	321-60-8	
Terphenyl-d14 (S)	82	%	26-135		1	11/02/15 12:00	11/03/15 14:50	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/15 21:25	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/15 21:25	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/15 21:25	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/30/15 21:25	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/15 21:25	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/15 21:25	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	105	%	70-130		1		10/30/15 21:25	1868-53-7	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

**Sample: 102715006**      **Lab ID: 40123659006**      Collected: 10/27/15 08:52      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	105	%	70-130		1		10/30/15 21:25	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		10/30/15 21:25	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>65.0</b>	mg/L	20.0	10.0	5		11/10/15 15:32	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>267</b>	mg/L	20.0	7.5	1		11/05/15 10:35		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		11/09/15 13:11		

**Sample: 102715007**      **Lab ID: 40123659007**      Collected: 10/27/15 09:31      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>111</b>	ug/L	2.8	1.4	1		10/30/15 09:03	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 09:48	7429-90-5	
Antimony, Dissolved	<b>0.22J</b>	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 09:48	7440-36-0	
Copper, Dissolved	<b>2.3</b>	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 09:48	7440-50-8	
Iron, Dissolved	<b>131J</b>	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 09:48	7439-89-6	B
Manganese, Dissolved	<b>172</b>	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 09:48	7439-96-5	
Nickel, Dissolved	<b>3.0</b>	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 09:48	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 09:48	7440-22-4	
Vanadium, Dissolved	<b>0.27J</b>	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 09:48	7440-62-2	
Zinc, Dissolved	<b>8.2J</b>	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 09:48	7440-66-6	B
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>0.85</b>	ug/L	0.053	0.0053	1	11/02/15 12:00	11/04/15 11:21	83-32-9	
Acenaphthylene	<b>0.21</b>	ug/L	0.053	0.0053	1	11/02/15 12:00	11/04/15 11:21	208-96-8	
Anthracene	<b>0.047J</b>	ug/L	0.053	0.0043	1	11/02/15 12:00	11/04/15 11:21	120-12-7	
Benzo(a)anthracene	<b>0.028J</b>	ug/L	0.053	0.0055	1	11/02/15 12:00	11/04/15 11:21	56-55-3	
Benzo(a)pyrene	<b>0.023J</b>	ug/L	0.053	0.0047	1	11/02/15 12:00	11/04/15 11:21	50-32-8	
Benzo(b)fluoranthene	<b>0.025J</b>	ug/L	0.053	0.0056	1	11/02/15 12:00	11/04/15 11:21	205-99-2	
Benzo(g,h,i)perylene	<b>0.013J</b>	ug/L	0.053	0.0037	1	11/02/15 12:00	11/04/15 11:21	191-24-2	
Benzo(k)fluoranthene	<b>0.011J</b>	ug/L	0.053	0.0060	1	11/02/15 12:00	11/04/15 11:21	207-08-9	
Chrysene	<b>0.018J</b>	ug/L	0.053	0.0045	1	11/02/15 12:00	11/04/15 11:21	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0059</b>	ug/L	0.053	0.0059	1	11/02/15 12:00	11/04/15 11:21	53-70-3	
Fluoranthene	<b>0.078</b>	ug/L	0.053	0.010	1	11/02/15 12:00	11/04/15 11:21	206-44-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

Sample: 102715007 Lab ID: 40123659007 Collected: 10/27/15 09:31 Received: 10/28/15 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Fluorene	0.15	ug/L	0.053	0.0043	1	11/02/15 12:00	11/04/15 11:21	86-73-7	
Indeno(1,2,3-cd)pyrene	0.011J	ug/L	0.053	0.0038	1	11/02/15 12:00	11/04/15 11:21	193-39-5	
1-Methylnaphthalene	0.28	ug/L	0.053	0.0033	1	11/02/15 12:00	11/04/15 11:21	90-12-0	
2-Methylnaphthalene	0.0074J	ug/L	0.053	0.0029	1	11/02/15 12:00	11/04/15 11:21	91-57-6	B
Naphthalene	0.076	ug/L	0.053	0.0048	1	11/02/15 12:00	11/04/15 11:21	91-20-3	B
Phenanthrene	0.055	ug/L	0.053	0.0081	1	11/02/15 12:00	11/04/15 11:21	85-01-8	
Pyrene	0.051J	ug/L	0.053	0.0082	1	11/02/15 12:00	11/04/15 11:21	129-00-0	
Total PAHs	1.9	ug/L			1	11/02/15 12:00	11/04/15 11:21		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	62	%	40-130		1	11/02/15 12:00	11/04/15 11:21	321-60-8	
Terphenyl-d14 (S)	80	%	26-135		1	11/02/15 12:00	11/04/15 11:21	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	1.3	ug/L	1.0	0.50	1		10/30/15 21:46	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/15 21:46	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/15 21:46	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/30/15 21:46	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/15 21:46	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/15 21:46	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	70-130		1		10/30/15 21:46	1868-53-7	
Toluene-d8 (S)	108	%	70-130		1		10/30/15 21:46	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		10/30/15 21:46	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	67.6	mg/L	20.0	10.0	5		11/10/15 15:45	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	320	mg/L	20.0	7.5	1		11/05/15 10:36		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		11/09/15 13:11		

Sample: 102715008 Lab ID: 40123659008 Collected: 10/27/15 10:20 Received: 10/28/15 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified									
Methane	201	ug/L	2.8	1.4	1		10/30/15 09:24	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 09:54	7429-90-5	
Antimony, Dissolved	1.4	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 09:54	7440-36-0	
Copper, Dissolved	0.52J	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 09:54	7440-50-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Sample Project No.: 40123659

**Sample: 102715008**      **Lab ID: 40123659008**      Collected: 10/27/15 10:20      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Iron, Dissolved	309	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 09:54	7439-89-6	
Manganese, Dissolved	666	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 09:54	7439-96-5	
Nickel, Dissolved	2.1	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 09:54	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 09:54	7440-22-4	
Vanadium, Dissolved	2.8	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 09:54	7440-62-2	
Zinc, Dissolved	4.6J	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 09:54	7440-66-6	B
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	0.16	ug/L	0.050	0.0050	1	11/02/15 12:00	11/02/15 21:00	83-32-9	
Acenaphthylene	0.061	ug/L	0.050	0.0049	1	11/02/15 12:00	11/02/15 21:00	208-96-8	
Anthracene	0.026J	ug/L	0.050	0.0040	1	11/02/15 12:00	11/02/15 21:00	120-12-7	
Benzo(a)anthracene	<0.0051	ug/L	0.050	0.0051	1	11/02/15 12:00	11/02/15 21:00	56-55-3	
Benzo(a)pyrene	<0.0044	ug/L	0.050	0.0044	1	11/02/15 12:00	11/02/15 21:00	50-32-8	
Benzo(b)fluoranthene	0.0067J	ug/L	0.050	0.0053	1	11/02/15 12:00	11/02/15 21:00	205-99-2	
Benzo(g,h,i)perylene	<0.0035	ug/L	0.050	0.0035	1	11/02/15 12:00	11/02/15 21:00	191-24-2	
Benzo(k)fluoranthene	<0.0056	ug/L	0.050	0.0056	1	11/02/15 12:00	11/02/15 21:00	207-08-9	
Chrysene	0.0066J	ug/L	0.050	0.0042	1	11/02/15 12:00	11/02/15 21:00	218-01-9	
Dibenz(a,h)anthracene	<0.0056	ug/L	0.050	0.0056	1	11/02/15 12:00	11/02/15 21:00	53-70-3	
Fluoranthene	0.027J	ug/L	0.050	0.0094	1	11/02/15 12:00	11/02/15 21:00	206-44-0	
Fluorene	0.023J	ug/L	0.050	0.0040	1	11/02/15 12:00	11/02/15 21:00	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0036	ug/L	0.050	0.0036	1	11/02/15 12:00	11/02/15 21:00	193-39-5	
1-Methylnaphthalene	0.060	ug/L	0.050	0.0031	1	11/02/15 12:00	11/02/15 21:00	90-12-0	B
2-Methylnaphthalene	<0.0028	ug/L	0.050	0.0028	1	11/02/15 12:00	11/02/15 21:00	91-57-6	
Naphthalene	0.0082J	ug/L	0.050	0.0045	1	11/02/15 12:00	11/02/15 21:00	91-20-3	B
Phenanthrene	0.019J	ug/L	0.050	0.0077	1	11/02/15 12:00	11/02/15 21:00	85-01-8	
Pyrene	0.016J	ug/L	0.050	0.0077	1	11/02/15 12:00	11/02/15 21:00	129-00-0	
Total PAHs	0.42	ug/L			1	11/02/15 12:00	11/02/15 21:00		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	53	%	40-130		1	11/02/15 12:00	11/02/15 21:00	321-60-8	
Terphenyl-d14 (S)	72	%	26-135		1	11/02/15 12:00	11/02/15 21:00	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	52.2	ug/L	1.0	0.50	1		10/30/15 22:08	71-43-2	
Ethylbenzene	4.8	ug/L	1.0	0.50	1		10/30/15 22:08	100-41-4	
Toluene	7.9	ug/L	1.0	0.50	1		10/30/15 22:08	108-88-3	
Xylene (Total)	8.6	ug/L	3.0	1.5	1		10/30/15 22:08	1330-20-7	
m&p-Xylene	4.7	ug/L	2.0	1.0	1		10/30/15 22:08	179601-23-1	
o-Xylene	3.9	ug/L	1.0	0.50	1		10/30/15 22:08	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	105	%	70-130		1		10/30/15 22:08	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		10/30/15 22:08	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		10/30/15 22:08	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	177	mg/L	40.0	20.0	10		11/10/15 15:57	14808-79-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

Sample: 102715008      Lab ID: 40123659008      Collected: 10/27/15 10:20      Received: 10/28/15 10:00      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	210	mg/L	20.0	7.5	1		11/05/15 10:36		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		11/09/15 13:12		

Sample: 102715009      Lab ID: 40123659009      Collected: 10/27/15 11:06      Received: 10/28/15 10:00      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	159	ug/L	2.8	1.4	1		10/30/15 10:15	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 10:01	7429-90-5	
Antimony, Dissolved	0.37J	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 10:01	7440-36-0	
Copper, Dissolved	3.6	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 10:01	7440-50-8	
Iron, Dissolved	1170	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 10:01	7439-89-6	
Manganese, Dissolved	901	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 10:01	7439-96-5	
Nickel, Dissolved	3.7	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 10:01	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 10:01	7440-22-4	
Vanadium, Dissolved	0.54J	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 10:01	7440-62-2	
Zinc, Dissolved	6.3J	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 10:01	7440-66-6	B

<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	0.0065J	ug/L	0.052	0.0052	1	11/02/15 12:00	11/03/15 09:51	83-32-9	
Acenaphthylene	0.0082J	ug/L	0.052	0.0051	1	11/02/15 12:00	11/03/15 09:51	208-96-8	
Anthracene	0.031J	ug/L	0.052	0.0042	1	11/02/15 12:00	11/03/15 09:51	120-12-7	
Benzo(a)anthracene	<0.0053	ug/L	0.052	0.0053	1	11/02/15 12:00	11/03/15 09:51	56-55-3	
Benzo(a)pyrene	0.0052J	ug/L	0.052	0.0046	1	11/02/15 12:00	11/03/15 09:51	50-32-8	
Benzo(b)fluoranthene	0.012J	ug/L	0.052	0.0055	1	11/02/15 12:00	11/03/15 09:51	205-99-2	
Benzo(g,h,i)perylene	0.0054J	ug/L	0.052	0.0036	1	11/02/15 12:00	11/03/15 09:51	191-24-2	
Benzo(k)fluoranthene	<0.0059	ug/L	0.052	0.0059	1	11/02/15 12:00	11/03/15 09:51	207-08-9	
Chrysene	0.0091J	ug/L	0.052	0.0044	1	11/02/15 12:00	11/03/15 09:51	218-01-9	
Dibenz(a,h)anthracene	<0.0058	ug/L	0.052	0.0058	1	11/02/15 12:00	11/03/15 09:51	53-70-3	
Fluoranthene	0.016J	ug/L	0.052	0.0098	1	11/02/15 12:00	11/03/15 09:51	206-44-0	
Fluorene	0.0045J	ug/L	0.052	0.0042	1	11/02/15 12:00	11/03/15 09:51	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0037	ug/L	0.052	0.0037	1	11/02/15 12:00	11/03/15 09:51	193-39-5	
1-Methylnaphthalene	0.0051J	ug/L	0.052	0.0032	1	11/02/15 12:00	11/03/15 09:51	90-12-0	B
2-Methylnaphthalene	0.0055J	ug/L	0.052	0.0029	1	11/02/15 12:00	11/03/15 09:51	91-57-6	B
Naphthalene	0.014J	ug/L	0.052	0.0047	1	11/02/15 12:00	11/03/15 09:51	91-20-3	B
Phenanthrene	0.015J	ug/L	0.052	0.0080	1	11/02/15 12:00	11/03/15 09:51	85-01-8	
Pyrene	0.032J	ug/L	0.052	0.0080	1	11/02/15 12:00	11/03/15 09:51	129-00-0	
Total PAHs	0.18	ug/L			1	11/02/15 12:00	11/03/15 09:51		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

**Sample: 102715009**      **Lab ID: 40123659009**      Collected: 10/27/15 11:06      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	57	%	40-130		1	11/02/15 12:00	11/03/15 09:51	321-60-8	
Terphenyl-d14 (S)	78	%	26-135		1	11/02/15 12:00	11/03/15 09:51	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/15 22:30	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/15 22:30	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/15 22:30	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/30/15 22:30	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/15 22:30	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/15 22:30	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	105	%	70-130		1		10/30/15 22:30	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		10/30/15 22:30	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		10/30/15 22:30	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	53.1	mg/L	4.0	2.0	1		11/09/15 23:45	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	513	mg/L	100	37.5	5		11/05/15 11:39		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.38	mg/L	0.25	0.095	1		11/09/15 13:13		

**Sample: 102715010**      **Lab ID: 40123659010**      Collected: 10/27/15 11:49      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	8570	ug/L	140	68.5	50		10/30/15 12:13	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 10:20	7429-90-5	
Antimony, Dissolved	0.25J	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 10:20	7440-36-0	
Copper, Dissolved	0.71J	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 10:20	7440-50-8	
Iron, Dissolved	29900	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 10:20	7439-89-6	
Manganese, Dissolved	727	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 10:20	7439-96-5	
Nickel, Dissolved	4.8	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 10:20	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 10:20	7440-22-4	
Vanadium, Dissolved	5.3	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 10:20	7440-62-2	
Zinc, Dissolved	9.7J	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 10:20	7440-66-6	B

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

**Sample: 102715010**      **Lab ID: 40123659010**      Collected: 10/27/15 11:49      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510							
Acenaphthene	<b>0.12</b>	ug/L	0.048	0.0048	1	11/02/15 12:00	11/03/15 10:08	83-32-9	
Acenaphthylene	<b>0.0080J</b>	ug/L	0.048	0.0048	1	11/02/15 12:00	11/03/15 10:08	208-96-8	
Anthracene	<b>0.026J</b>	ug/L	0.048	0.0039	1	11/02/15 12:00	11/03/15 10:08	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0049</b>	ug/L	0.048	0.0049	1	11/02/15 12:00	11/03/15 10:08	56-55-3	
Benzo(a)pyrene	<b>0.0045J</b>	ug/L	0.048	0.0042	1	11/02/15 12:00	11/03/15 10:08	50-32-8	
Benzo(b)fluoranthene	<b>0.0085J</b>	ug/L	0.048	0.0051	1	11/02/15 12:00	11/03/15 10:08	205-99-2	
Benzo(g,h,i)perylene	<b>0.0057J</b>	ug/L	0.048	0.0034	1	11/02/15 12:00	11/03/15 10:08	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0054</b>	ug/L	0.048	0.0054	1	11/02/15 12:00	11/03/15 10:08	207-08-9	
Chrysene	<b>0.0075J</b>	ug/L	0.048	0.0041	1	11/02/15 12:00	11/03/15 10:08	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0053</b>	ug/L	0.048	0.0053	1	11/02/15 12:00	11/03/15 10:08	53-70-3	
Fluoranthene	<b>0.036J</b>	ug/L	0.048	0.0090	1	11/02/15 12:00	11/03/15 10:08	206-44-0	
Fluorene	<b>0.049</b>	ug/L	0.048	0.0039	1	11/02/15 12:00	11/03/15 10:08	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.0042J</b>	ug/L	0.048	0.0034	1	11/02/15 12:00	11/03/15 10:08	193-39-5	
1-Methylnaphthalene	<b>0.0037J</b>	ug/L	0.048	0.0030	1	11/02/15 12:00	11/03/15 10:08	90-12-0	B
2-Methylnaphthalene	<b>0.0047J</b>	ug/L	0.048	0.0026	1	11/02/15 12:00	11/03/15 10:08	91-57-6	B
Naphthalene	<b>0.0096J</b>	ug/L	0.048	0.0044	1	11/02/15 12:00	11/03/15 10:08	91-20-3	B
Phenanthrene	<b>0.012J</b>	ug/L	0.048	0.0074	1	11/02/15 12:00	11/03/15 10:08	85-01-8	
Pyrene	<b>0.027J</b>	ug/L	0.048	0.0074	1	11/02/15 12:00	11/03/15 10:08	129-00-0	
Total PAHs	<b>0.33</b>	ug/L			1	11/02/15 12:00	11/03/15 10:08		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	44	%	40-130		1	11/02/15 12:00	11/03/15 10:08	321-60-8	
Terphenyl-d14 (S)	61	%	26-135		1	11/02/15 12:00	11/03/15 10:08	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 22:52	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 22:52	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 22:52	108-88-3	
Xylene (Total)	<b>&lt;1.5</b>	ug/L	3.0	1.5	1		10/30/15 22:52	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/30/15 22:52	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 22:52	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	70-130		1		10/30/15 22:52	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		10/30/15 22:52	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		10/30/15 22:52	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<b>18.1</b>	mg/L	4.0	2.0	1		11/09/15 23:58	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	<b>442</b>	mg/L	100	37.5	5		11/05/15 11:41		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		11/09/15 13:14		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

**Sample: 102715011**      **Lab ID: 40123659011**      Collected: 10/27/15 13:00      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		10/30/15 10:29	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 10:26	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 10:26	7440-36-0	
Copper, Dissolved	2.8	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 10:26	7440-50-8	
Iron, Dissolved	151J	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 10:26	7439-89-6	B
Manganese, Dissolved	1960	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 10:26	7439-96-5	
Nickel, Dissolved	2.6	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 10:26	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 10:26	7440-22-4	
Vanadium, Dissolved	<0.15	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 10:26	7440-62-2	
Zinc, Dissolved	8.9J	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 10:26	7440-66-6	B
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<0.0048	ug/L	0.049	0.0048	1	11/02/15 12:00	11/03/15 10:24	83-32-9	
Acenaphthylene	<0.0048	ug/L	0.049	0.0048	1	11/02/15 12:00	11/03/15 10:24	208-96-8	
Anthracene	<0.0039	ug/L	0.049	0.0039	1	11/02/15 12:00	11/03/15 10:24	120-12-7	
Benzo(a)anthracene	<0.0050	ug/L	0.049	0.0050	1	11/02/15 12:00	11/03/15 10:24	56-55-3	
Benzo(a)pyrene	<0.0043	ug/L	0.049	0.0043	1	11/02/15 12:00	11/03/15 10:24	50-32-8	
Benzo(b)fluoranthene	<0.0052	ug/L	0.049	0.0052	1	11/02/15 12:00	11/03/15 10:24	205-99-2	
Benzo(g,h,i)perylene	<0.0034	ug/L	0.049	0.0034	1	11/02/15 12:00	11/03/15 10:24	191-24-2	
Benzo(k)fluoranthene	<0.0055	ug/L	0.049	0.0055	1	11/02/15 12:00	11/03/15 10:24	207-08-9	
Chrysene	<0.0041	ug/L	0.049	0.0041	1	11/02/15 12:00	11/03/15 10:24	218-01-9	
Dibenz(a,h)anthracene	<0.0054	ug/L	0.049	0.0054	1	11/02/15 12:00	11/03/15 10:24	53-70-3	
Fluoranthene	<0.0091	ug/L	0.049	0.0091	1	11/02/15 12:00	11/03/15 10:24	206-44-0	
Fluorene	<0.0039	ug/L	0.049	0.0039	1	11/02/15 12:00	11/03/15 10:24	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0035	ug/L	0.049	0.0035	1	11/02/15 12:00	11/03/15 10:24	193-39-5	
1-Methylnaphthalene	0.0036J	ug/L	0.049	0.0030	1	11/02/15 12:00	11/03/15 10:24	90-12-0	B
2-Methylnaphthalene	0.0044J	ug/L	0.049	0.0027	1	11/02/15 12:00	11/03/15 10:24	91-57-6	B
Naphthalene	0.011J	ug/L	0.049	0.0044	1	11/02/15 12:00	11/03/15 10:24	91-20-3	B
Phenanthrene	0.0079J	ug/L	0.049	0.0074	1	11/02/15 12:00	11/03/15 10:24	85-01-8	
Pyrene	<0.0075	ug/L	0.049	0.0075	1	11/02/15 12:00	11/03/15 10:24	129-00-0	
Total PAHs	0.050	ug/L			1	11/02/15 12:00	11/03/15 10:24		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	50	%	40-130		1	11/02/15 12:00	11/03/15 10:24	321-60-8	
Terphenyl-d14 (S)	79	%	26-135		1	11/02/15 12:00	11/03/15 10:24	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/15 23:14	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/15 23:14	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/15 23:14	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/30/15 23:14	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/15 23:14	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/15 23:14	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	105	%	70-130		1		10/30/15 23:14	1868-53-7	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

**Sample: 102715011**      **Lab ID: 40123659011**      Collected: 10/27/15 13:00      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
<i>Surrogates</i>									
Toluene-d8 (S)	108	%	70-130		1		10/30/15 23:14	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		10/30/15 23:14	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<b>119</b>	mg/L	20.0	10.0	5		11/10/15 16:10	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub>	<b>271</b>	mg/L	20.0	7.5	1		11/05/15 10:38		
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO <sub>2</sub> plus NO <sub>3</sub>	<b>4.0</b>	mg/L	0.25	0.095	1		11/09/15 13:15		

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## ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

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**Sample: 102715013**      **Lab ID: 40123659013**      Collected: 10/27/15 14:05      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		10/30/15 10:36	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 10:32	7429-90-5	
Antimony, Dissolved	0.16J	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 10:32	7440-36-0	
Copper, Dissolved	2.2	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 10:32	7440-50-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Sample Project No.: 40123659

**Sample: 102715013**      **Lab ID: 40123659013**      Collected: 10/27/15 14:05      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Iron, Dissolved	<b>28.7J</b>	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 10:32	7439-89-6	B
Manganese, Dissolved	<b>10.5</b>	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 10:32	7439-96-5	
Nickel, Dissolved	<b>1.0</b>	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 10:32	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 10:32	7440-22-4	
Vanadium, Dissolved	<b>0.63J</b>	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 10:32	7440-62-2	
Zinc, Dissolved	<b>35.1</b>	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 10:32	7440-66-6	B
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0053</b>	ug/L	0.053	0.0053	1	11/02/15 12:00	11/03/15 12:54	83-32-9	
Acenaphthylene	<b>0.0064J</b>	ug/L	0.053	0.0053	1	11/02/15 12:00	11/03/15 12:54	208-96-8	
Anthracene	<b>&lt;0.0043</b>	ug/L	0.053	0.0043	1	11/02/15 12:00	11/03/15 12:54	120-12-7	
Benzo(a)anthracene	<b>0.0067J</b>	ug/L	0.053	0.0055	1	11/02/15 12:00	11/03/15 12:54	56-55-3	
Benzo(a)pyrene	<b>0.0055J</b>	ug/L	0.053	0.0047	1	11/02/15 12:00	11/03/15 12:54	50-32-8	
Benzo(b)fluoranthene	<b>0.011J</b>	ug/L	0.053	0.0056	1	11/02/15 12:00	11/03/15 12:54	205-99-2	
Benzo(g,h,i)perylene	<b>0.0058J</b>	ug/L	0.053	0.0037	1	11/02/15 12:00	11/03/15 12:54	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0060</b>	ug/L	0.053	0.0060	1	11/02/15 12:00	11/03/15 12:54	207-08-9	
Chrysene	<b>0.012J</b>	ug/L	0.053	0.0045	1	11/02/15 12:00	11/03/15 12:54	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0059</b>	ug/L	0.053	0.0059	1	11/02/15 12:00	11/03/15 12:54	53-70-3	
Fluoranthene	<b>0.014J</b>	ug/L	0.053	0.010	1	11/02/15 12:00	11/03/15 12:54	206-44-0	
Fluorene	<b>&lt;0.0043</b>	ug/L	0.053	0.0043	1	11/02/15 12:00	11/03/15 12:54	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.0038</b>	ug/L	0.053	0.0038	1	11/02/15 12:00	11/03/15 12:54	193-39-5	
1-Methylnaphthalene	<b>&lt;0.0033</b>	ug/L	0.053	0.0033	1	11/02/15 12:00	11/03/15 12:54	90-12-0	
2-Methylnaphthalene	<b>&lt;0.0029</b>	ug/L	0.053	0.0029	1	11/02/15 12:00	11/03/15 12:54	91-57-6	
Naphthalene	<b>&lt;0.0048</b>	ug/L	0.053	0.0048	1	11/02/15 12:00	11/03/15 12:54	91-20-3	
Phenanthrene	<b>0.023J</b>	ug/L	0.053	0.0081	1	11/02/15 12:00	11/03/15 12:54	85-01-8	
Pyrene	<b>0.016J</b>	ug/L	0.053	0.0082	1	11/02/15 12:00	11/03/15 12:54	129-00-0	
Total PAHs	<b>0.12</b>	ug/L			1	11/02/15 12:00	11/03/15 12:54		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	63	%	40-130		1	11/02/15 12:00	11/03/15 12:54	321-60-8	
Terphenyl-d14 (S)	88	%	26-135		1	11/02/15 12:00	11/03/15 12:54	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 23:36	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 23:36	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 23:36	108-88-3	
Xylene (Total)	<b>&lt;1.5</b>	ug/L	3.0	1.5	1		10/30/15 23:36	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/30/15 23:36	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/30/15 23:36	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	109	%	70-130		1		10/30/15 23:36	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/30/15 23:36	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		10/30/15 23:36	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>590</b>	mg/L	80.0	40.0	20		11/10/15 13:20	14808-79-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

Sample: 102715013      Lab ID: 40123659013      Collected: 10/27/15 14:05      Received: 10/28/15 10:00      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	166	mg/L	20.0	7.5	1		11/05/15 10:42		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	2.0	mg/L	0.25	0.095	1		11/09/15 13:21		

Sample: 102715014      Lab ID: 40123659014      Collected: 10/27/15 15:09      Received: 10/28/15 10:00      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	6.0	ug/L	2.8	1.4	1		10/30/15 10:43	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 10:39	7429-90-5	
Antimony, Dissolved	0.60J	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 10:39	7440-36-0	
Copper, Dissolved	7.4	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 10:39	7440-50-8	
Iron, Dissolved	19.8J	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 10:39	7439-89-6	B
Manganese, Dissolved	65.6	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 10:39	7439-96-5	
Nickel, Dissolved	3.6	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 10:39	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 10:39	7440-22-4	
Vanadium, Dissolved	2.1	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 10:39	7440-62-2	
Zinc, Dissolved	26.8	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 10:39	7440-66-6	B
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<0.0046	ug/L	0.047	0.0046	1	11/02/15 12:00	11/03/15 11:14	83-32-9	
Acenaphthylene	<0.0046	ug/L	0.047	0.0046	1	11/02/15 12:00	11/03/15 11:14	208-96-8	
Anthracene	0.021J	ug/L	0.047	0.0038	1	11/02/15 12:00	11/03/15 11:14	120-12-7	
Benzo(a)anthracene	0.010J	ug/L	0.047	0.0048	1	11/02/15 12:00	11/03/15 11:14	56-55-3	
Benzo(a)pyrene	0.0054J	ug/L	0.047	0.0041	1	11/02/15 12:00	11/03/15 11:14	50-32-8	
Benzo(b)fluoranthene	0.013J	ug/L	0.047	0.0050	1	11/02/15 12:00	11/03/15 11:14	205-99-2	
Benzo(g,h,i)perylene	0.0051J	ug/L	0.047	0.0033	1	11/02/15 12:00	11/03/15 11:14	191-24-2	
Benzo(k)fluoranthene	<0.0053	ug/L	0.047	0.0053	1	11/02/15 12:00	11/03/15 11:14	207-08-9	
Chrysene	0.0062J	ug/L	0.047	0.0040	1	11/02/15 12:00	11/03/15 11:14	218-01-9	
Dibenz(a,h)anthracene	<0.0052	ug/L	0.047	0.0052	1	11/02/15 12:00	11/03/15 11:14	53-70-3	
Fluoranthene	0.012J	ug/L	0.047	0.0088	1	11/02/15 12:00	11/03/15 11:14	206-44-0	
Fluorene	<0.0038	ug/L	0.047	0.0038	1	11/02/15 12:00	11/03/15 11:14	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0036J	ug/L	0.047	0.0033	1	11/02/15 12:00	11/03/15 11:14	193-39-5	
1-Methylnaphthalene	<0.0029	ug/L	0.047	0.0029	1	11/02/15 12:00	11/03/15 11:14	90-12-0	
2-Methylnaphthalene	0.0027J	ug/L	0.047	0.0026	1	11/02/15 12:00	11/03/15 11:14	91-57-6	B
Naphthalene	0.0081J	ug/L	0.047	0.0042	1	11/02/15 12:00	11/03/15 11:14	91-20-3	B
Phenanthrene	0.011J	ug/L	0.047	0.0072	1	11/02/15 12:00	11/03/15 11:14	85-01-8	
Pyrene	0.013J	ug/L	0.047	0.0072	1	11/02/15 12:00	11/03/15 11:14	129-00-0	
Total PAHs	0.12	ug/L			1	11/02/15 12:00	11/03/15 11:14		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

**Sample: 102715014**      **Lab ID: 40123659014**      Collected: 10/27/15 15:09      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	52	%	40-130		1	11/02/15 12:00	11/03/15 11:14	321-60-8	
Terphenyl-d14 (S)	73	%	26-135		1	11/02/15 12:00	11/03/15 11:14	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/30/15 23:58	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/30/15 23:58	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/30/15 23:58	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/30/15 23:58	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/30/15 23:58	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/30/15 23:58	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	106	%	70-130		1		10/30/15 23:58	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		10/30/15 23:58	2037-26-5	
4-Bromofluorobenzene (S)	83	%	70-130		1		10/30/15 23:58	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	119	mg/L	20.0	10.0	5		11/10/15 13:32	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	422	mg/L	100	37.5	5		11/05/15 11:45		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		11/09/15 13:21		

**Sample: 102715015**      **Lab ID: 40123659015**      Collected: 10/27/15 15:14      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	5.6	ug/L	2.8	1.4	1		10/30/15 10:50	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 10:45	7429-90-5	
Antimony, Dissolved	0.63J	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 10:45	7440-36-0	
Copper, Dissolved	7.2	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 10:45	7440-50-8	
Iron, Dissolved	22.8J	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 10:45	7439-89-6	B
Manganese, Dissolved	72.2	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 10:45	7439-96-5	
Nickel, Dissolved	3.5	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 10:45	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 10:45	7440-22-4	
Vanadium, Dissolved	2.2	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 10:45	7440-62-2	
Zinc, Dissolved	27.8	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 10:45	7440-66-6	B

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

**Sample: 102715015**      **Lab ID: 40123659015**      Collected: 10/27/15 15:14      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510							
Acenaphthene	<0.0052	ug/L	0.053	0.0052	1	11/02/15 12:00	11/03/15 13:11	83-32-9	
Acenaphthylene	<0.0052	ug/L	0.053	0.0052	1	11/02/15 12:00	11/03/15 13:11	208-96-8	
Anthracene	0.020J	ug/L	0.053	0.0043	1	11/02/15 12:00	11/03/15 13:11	120-12-7	
Benzo(a)anthracene	<0.0054	ug/L	0.053	0.0054	1	11/02/15 12:00	11/03/15 13:11	56-55-3	
Benzo(a)pyrene	<0.0047	ug/L	0.053	0.0047	1	11/02/15 12:00	11/03/15 13:11	50-32-8	
Benzo(b)fluoranthene	0.0083J	ug/L	0.053	0.0056	1	11/02/15 12:00	11/03/15 13:11	205-99-2	
Benzo(g,h,i)perylene	<0.0037	ug/L	0.053	0.0037	1	11/02/15 12:00	11/03/15 13:11	191-24-2	
Benzo(k)fluoranthene	<0.0059	ug/L	0.053	0.0059	1	11/02/15 12:00	11/03/15 13:11	207-08-9	
Chrysene	0.0065J	ug/L	0.053	0.0045	1	11/02/15 12:00	11/03/15 13:11	218-01-9	
Dibenz(a,h)anthracene	<0.0059	ug/L	0.053	0.0059	1	11/02/15 12:00	11/03/15 13:11	53-70-3	
Fluoranthene	<0.0099	ug/L	0.053	0.0099	1	11/02/15 12:00	11/03/15 13:11	206-44-0	
Fluorene	<0.0043	ug/L	0.053	0.0043	1	11/02/15 12:00	11/03/15 13:11	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0038	ug/L	0.053	0.0038	1	11/02/15 12:00	11/03/15 13:11	193-39-5	
1-Methylnaphthalene	<0.0033	ug/L	0.053	0.0033	1	11/02/15 12:00	11/03/15 13:11	90-12-0	
2-Methylnaphthalene	0.0037J	ug/L	0.053	0.0029	1	11/02/15 12:00	11/03/15 13:11	91-57-6	B
Naphthalene	0.0091J	ug/L	0.053	0.0048	1	11/02/15 12:00	11/03/15 13:11	91-20-3	B
Phenanthrene	0.0087J	ug/L	0.053	0.0081	1	11/02/15 12:00	11/03/15 13:11	85-01-8	
Pyrene	0.011J	ug/L	0.053	0.0081	1	11/02/15 12:00	11/03/15 13:11	129-00-0	
Total PAHs	0.092	ug/L			1	11/02/15 12:00	11/03/15 13:11		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	62	%	40-130		1	11/02/15 12:00	11/03/15 13:11	321-60-8	
Terphenyl-d14 (S)	80	%	26-135		1	11/02/15 12:00	11/03/15 13:11	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/31/15 00:19	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/31/15 00:19	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/31/15 00:19	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/31/15 00:19	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/31/15 00:19	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/31/15 00:19	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	70-130		1		10/31/15 00:19	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		10/31/15 00:19	2037-26-5	
4-Bromofluorobenzene (S)	84	%	70-130		1		10/31/15 00:19	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	119	mg/L	20.0	10.0	5		11/10/15 13:43	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	428	mg/L	100	37.5	5		11/05/15 11:47		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		11/09/15 13:22		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

**Sample: 102715016**      **Lab ID: 40123659016**      Collected: 10/27/15 15:50      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Methane	<1.4	ug/L	2.8	1.4	1		10/30/15 10:57	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020      Preparation Method: EPA 3010							
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 10:52	7429-90-5	
Antimony, Dissolved	0.17J	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 10:52	7440-36-0	
Copper, Dissolved	1.2	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 10:52	7440-50-8	
Iron, Dissolved	41.9J	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 10:52	7439-89-6	B
Manganese, Dissolved	7.9	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 10:52	7439-96-5	
Nickel, Dissolved	0.86J	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 10:52	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 10:52	7440-22-4	
Vanadium, Dissolved	0.68J	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 10:52	7440-62-2	
Zinc, Dissolved	7.1J	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 10:52	7440-66-6	B
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510							
Acenaphthene	<0.0053	ug/L	0.054	0.0053	1	11/02/15 12:00	11/03/15 11:48	83-32-9	
Acenaphthylene	0.012J	ug/L	0.054	0.0053	1	11/02/15 12:00	11/03/15 11:48	208-96-8	
Anthracene	<0.0043	ug/L	0.054	0.0043	1	11/02/15 12:00	11/03/15 11:48	120-12-7	
Benzo(a)anthracene	<0.0055	ug/L	0.054	0.0055	1	11/02/15 12:00	11/03/15 11:48	56-55-3	
Benzo(a)pyrene	0.0063J	ug/L	0.054	0.0048	1	11/02/15 12:00	11/03/15 11:48	50-32-8	
Benzo(b)fluoranthene	0.0092J	ug/L	0.054	0.0057	1	11/02/15 12:00	11/03/15 11:48	205-99-2	
Benzo(g,h,i)perylene	<0.0038	ug/L	0.054	0.0038	1	11/02/15 12:00	11/03/15 11:48	191-24-2	
Benzo(k)fluoranthene	<0.0061	ug/L	0.054	0.0061	1	11/02/15 12:00	11/03/15 11:48	207-08-9	
Chrysene	0.010J	ug/L	0.054	0.0046	1	11/02/15 12:00	11/03/15 11:48	218-01-9	
Dibenz(a,h)anthracene	<0.0060	ug/L	0.054	0.0060	1	11/02/15 12:00	11/03/15 11:48	53-70-3	
Fluoranthene	0.014J	ug/L	0.054	0.010	1	11/02/15 12:00	11/03/15 11:48	206-44-0	
Fluorene	0.0046J	ug/L	0.054	0.0043	1	11/02/15 12:00	11/03/15 11:48	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0038	ug/L	0.054	0.0038	1	11/02/15 12:00	11/03/15 11:48	193-39-5	
1-Methylnaphthalene	0.0075J	ug/L	0.054	0.0033	1	11/02/15 12:00	11/03/15 11:48	90-12-0	B
2-Methylnaphthalene	0.0098J	ug/L	0.054	0.0030	1	11/02/15 12:00	11/03/15 11:48	91-57-6	B
Naphthalene	0.027J	ug/L	0.054	0.0049	1	11/02/15 12:00	11/03/15 11:48	91-20-3	B
Phenanthrene	0.030J	ug/L	0.054	0.0082	1	11/02/15 12:00	11/03/15 11:48	85-01-8	
Pyrene	0.019J	ug/L	0.054	0.0083	1	11/02/15 12:00	11/03/15 11:48	129-00-0	
Total PAHs	0.17	ug/L			1	11/02/15 12:00	11/03/15 11:48		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	55	%	40-130		1	11/02/15 12:00	11/03/15 11:48	321-60-8	
Terphenyl-d14 (S)	65	%	26-135		1	11/02/15 12:00	11/03/15 11:48	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/31/15 00:41	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/31/15 00:41	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/31/15 00:41	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/31/15 00:41	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/31/15 00:41	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/31/15 00:41	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	70-130		1		10/31/15 00:41	1868-53-7	

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## ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

**Sample: 102715016**      **Lab ID: 40123659016**      Collected: 10/27/15 15:50      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	105	%	70-130		1		10/31/15 00:41	2037-26-5	
4-Bromofluorobenzene (S)	84	%	70-130		1		10/31/15 00:41	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>822</b>	mg/L	80.0	40.0	20		11/10/15 13:55	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>146</b>	mg/L	20.0	7.5	1		11/05/15 10:44		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>0.27</b>	mg/L	0.25	0.095	1		11/09/15 13:23		

**Sample: 102715017**      **Lab ID: 40123659017**      Collected: 10/27/15 16:43      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>44.9</b>	ug/L	2.8	1.4	1		10/30/15 11:04	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 10:58	7429-90-5	
Antimony, Dissolved	<b>0.10J</b>	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 10:58	7440-36-0	
Copper, Dissolved	<b>4.2</b>	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 10:58	7440-50-8	
Iron, Dissolved	<b>5340</b>	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 10:58	7439-89-6	
Manganese, Dissolved	<b>3300</b>	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 10:58	7439-96-5	
Nickel, Dissolved	<b>15.3</b>	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 10:58	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 10:58	7440-22-4	
Vanadium, Dissolved	<b>1.1</b>	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 10:58	7440-62-2	
Zinc, Dissolved	<b>183</b>	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 10:58	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0049</b>	ug/L	0.049	0.0049	1	11/02/15 12:00	11/03/15 12:04	83-32-9	
Acenaphthylene	<b>&lt;0.0048</b>	ug/L	0.049	0.0048	1	11/02/15 12:00	11/03/15 12:04	208-96-8	
Anthracene	<b>&lt;0.0040</b>	ug/L	0.049	0.0040	1	11/02/15 12:00	11/03/15 12:04	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0050</b>	ug/L	0.049	0.0050	1	11/02/15 12:00	11/03/15 12:04	56-55-3	
Benzo(a)pyrene	<b>0.0045J</b>	ug/L	0.049	0.0043	1	11/02/15 12:00	11/03/15 12:04	50-32-8	
Benzo(b)fluoranthene	<b>0.0073J</b>	ug/L	0.049	0.0052	1	11/02/15 12:00	11/03/15 12:04	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0034</b>	ug/L	0.049	0.0034	1	11/02/15 12:00	11/03/15 12:04	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0055</b>	ug/L	0.049	0.0055	1	11/02/15 12:00	11/03/15 12:04	207-08-9	
Chrysene	<b>0.0085J</b>	ug/L	0.049	0.0042	1	11/02/15 12:00	11/03/15 12:04	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0055</b>	ug/L	0.049	0.0055	1	11/02/15 12:00	11/03/15 12:04	53-70-3	
Fluoranthene	<b>0.013J</b>	ug/L	0.049	0.0092	1	11/02/15 12:00	11/03/15 12:04	206-44-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

**Sample: 102715017**      **Lab ID: 40123659017**      Collected: 10/27/15 16:43      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Fluorene	<0.0040	ug/L	0.049	0.0040	1	11/02/15 12:00	11/03/15 12:04	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0035	ug/L	0.049	0.0035	1	11/02/15 12:00	11/03/15 12:04	193-39-5	
1-Methylnaphthalene	<0.0030	ug/L	0.049	0.0030	1	11/02/15 12:00	11/03/15 12:04	90-12-0	
2-Methylnaphthalene	<0.0027	ug/L	0.049	0.0027	1	11/02/15 12:00	11/03/15 12:04	91-57-6	
Naphthalene	0.0080J	ug/L	0.049	0.0044	1	11/02/15 12:00	11/03/15 12:04	91-20-3	B
Phenanthrene	0.0098J	ug/L	0.049	0.0075	1	11/02/15 12:00	11/03/15 12:04	85-01-8	
Pyrene	0.012J	ug/L	0.049	0.0075	1	11/02/15 12:00	11/03/15 12:04	129-00-0	
Total PAHs	0.080	ug/L			1	11/02/15 12:00	11/03/15 12:04		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	41	%	40-130		1	11/02/15 12:00	11/03/15 12:04	321-60-8	
Terphenyl-d14 (S)	55	%	26-135		1	11/02/15 12:00	11/03/15 12:04	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/31/15 01:03	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/31/15 01:03	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/31/15 01:03	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/31/15 01:03	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/31/15 01:03	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/31/15 01:03	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	104	%	70-130		1		10/31/15 01:03	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/31/15 01:03	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		10/31/15 01:03	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	348	mg/L	80.0	40.0	20		11/10/15 14:06	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	653	mg/L	100	37.5	5		11/05/15 11:49		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		11/09/15 13:24		

**Sample: 102715018**      **Lab ID: 40123659018**      Collected: 10/27/15 17:20      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	70.0	ug/L	2.8	1.4	1		10/30/15 11:11	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 11:04	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 11:04	7440-36-0	
Copper, Dissolved	0.94J	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 11:04	7440-50-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
 Lab Project No.: 40123659

**Sample: 102715018**      **Lab ID: 40123659018**      Collected: 10/27/15 17:20      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Iron, Dissolved	4580	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 11:04	7439-89-6	
Manganese, Dissolved	1030	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 11:04	7439-96-5	
Nickel, Dissolved	2.7	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 11:04	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 11:04	7440-22-4	
Vanadium, Dissolved	3.1	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 11:04	7440-62-2	
Zinc, Dissolved	16.8	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 11:04	7440-66-6	B
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	4.9	ug/L	0.047	0.0047	1	11/02/15 12:00	11/03/15 12:21	83-32-9	
Acenaphthylene	0.24	ug/L	0.047	0.0047	1	11/02/15 12:00	11/03/15 12:21	208-96-8	
Anthracene	0.045J	ug/L	0.047	0.0038	1	11/02/15 12:00	11/03/15 12:21	120-12-7	
Benzo(a)anthracene	0.014J	ug/L	0.047	0.0048	1	11/02/15 12:00	11/03/15 12:21	56-55-3	
Benzo(a)pyrene	<0.0042	ug/L	0.047	0.0042	1	11/02/15 12:00	11/03/15 12:21	50-32-8	
Benzo(b)fluoranthene	<0.0050	ug/L	0.047	0.0050	1	11/02/15 12:00	11/03/15 12:21	205-99-2	
Benzo(g,h,i)perylene	<0.0033	ug/L	0.047	0.0033	1	11/02/15 12:00	11/03/15 12:21	191-24-2	
Benzo(k)fluoranthene	<0.0053	ug/L	0.047	0.0053	1	11/02/15 12:00	11/03/15 12:21	207-08-9	
Chrysene	0.011J	ug/L	0.047	0.0040	1	11/02/15 12:00	11/03/15 12:21	218-01-9	
Dibenz(a,h)anthracene	<0.0052	ug/L	0.047	0.0052	1	11/02/15 12:00	11/03/15 12:21	53-70-3	
Fluoranthene	0.41	ug/L	0.047	0.0089	1	11/02/15 12:00	11/03/15 12:21	206-44-0	
Fluorene	0.097	ug/L	0.047	0.0038	1	11/02/15 12:00	11/03/15 12:21	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0034	ug/L	0.047	0.0034	1	11/02/15 12:00	11/03/15 12:21	193-39-5	
1-Methylnaphthalene	0.11	ug/L	0.047	0.0029	1	11/02/15 12:00	11/03/15 12:21	90-12-0	B
2-Methylnaphthalene	0.0064J	ug/L	0.047	0.0026	1	11/02/15 12:00	11/03/15 12:21	91-57-6	B
Naphthalene	0.33	ug/L	0.047	0.0043	1	11/02/15 12:00	11/03/15 12:21	91-20-3	B
Phenanthrene	0.030J	ug/L	0.047	0.0072	1	11/02/15 12:00	11/03/15 12:21	85-01-8	
Pyrene	0.32	ug/L	0.047	0.0073	1	11/02/15 12:00	11/03/15 12:21	129-00-0	
Total PAHs	6.5	ug/L			1	11/02/15 12:00	11/03/15 12:21		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	50	%	40-130		1	11/02/15 12:00	11/03/15 12:21	321-60-8	
Terphenyl-d14 (S)	69	%	26-135		1	11/02/15 12:00	11/03/15 12:21	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/31/15 01:25	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/31/15 01:25	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/31/15 01:25	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/31/15 01:25	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/31/15 01:25	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/31/15 01:25	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	70-130		1		10/31/15 01:25	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		10/31/15 01:25	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		10/31/15 01:25	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	19.9	mg/L	4.0	2.0	1		11/09/15 19:41	14808-79-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

**Sample: 102715018**      **Lab ID: 40123659018**      Collected: 10/27/15 17:20      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>445</b>	mg/L	100	37.5	5		11/05/15 11:50		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		11/09/15 13:25		

**Sample: 102715019**      **Lab ID: 40123659019**      Collected: 10/27/15 17:56      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>3080</b>	ug/L	56.0	27.4	20		10/30/15 12:43	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 11:11	7429-90-5	
Antimony, Dissolved	<b>&lt;0.073</b>	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 11:11	7440-36-0	
Copper, Dissolved	<b>9.0</b>	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 11:11	7440-50-8	
Iron, Dissolved	<b>29300</b>	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 11:11	7439-89-6	
Manganese, Dissolved	<b>1220</b>	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 11:11	7439-96-5	
Nickel, Dissolved	<b>1.5</b>	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 11:11	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 11:11	7440-22-4	
Vanadium, Dissolved	<b>2.7</b>	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 11:11	7440-62-2	
Zinc, Dissolved	<b>10.6</b>	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 11:11	7440-66-6	B
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>86.2</b>	ug/L	4.9	0.48	100	11/02/15 12:00	11/03/15 10:58	83-32-9	
Acenaphthylene	<b>1.4J</b>	ug/L	4.9	0.48	100	11/02/15 12:00	11/03/15 10:58	208-96-8	
Anthracene	<b>3.4J</b>	ug/L	4.9	0.39	100	11/02/15 12:00	11/03/15 10:58	120-12-7	
Benzo(a)anthracene	<b>&lt;0.50</b>	ug/L	4.9	0.50	100	11/02/15 12:00	11/03/15 10:58	56-55-3	
Benzo(a)pyrene	<b>&lt;0.43</b>	ug/L	4.9	0.43	100	11/02/15 12:00	11/03/15 10:58	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.52</b>	ug/L	4.9	0.52	100	11/02/15 12:00	11/03/15 10:58	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.34</b>	ug/L	4.9	0.34	100	11/02/15 12:00	11/03/15 10:58	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.55</b>	ug/L	4.9	0.55	100	11/02/15 12:00	11/03/15 10:58	207-08-9	
Chrysene	<b>&lt;0.41</b>	ug/L	4.9	0.41	100	11/02/15 12:00	11/03/15 10:58	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.54</b>	ug/L	4.9	0.54	100	11/02/15 12:00	11/03/15 10:58	53-70-3	
Fluoranthene	<b>2.1J</b>	ug/L	4.9	0.91	100	11/02/15 12:00	11/03/15 10:58	206-44-0	
Fluorene	<b>22.4</b>	ug/L	4.9	0.39	100	11/02/15 12:00	11/03/15 10:58	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.35</b>	ug/L	4.9	0.35	100	11/02/15 12:00	11/03/15 10:58	193-39-5	
1-Methylnaphthalene	<b>98.7</b>	ug/L	4.9	0.30	100	11/02/15 12:00	11/03/15 10:58	90-12-0	
2-Methylnaphthalene	<b>17.2</b>	ug/L	4.9	0.27	100	11/02/15 12:00	11/03/15 10:58	91-57-6	B
Naphthalene	<b>580</b>	ug/L	4.9	0.44	100	11/02/15 12:00	11/03/15 10:58	91-20-3	
Phenanthrene	<b>24.8</b>	ug/L	4.9	0.74	100	11/02/15 12:00	11/03/15 10:58	85-01-8	
Pyrene	<b>2.0J</b>	ug/L	4.9	0.75	100	11/02/15 12:00	11/03/15 10:58	129-00-0	
Total PAHs	<b>839</b>	ug/L			100	11/02/15 12:00	11/03/15 10:58		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

**Sample: 102715019**      **Lab ID: 40123659019**      Collected: 10/27/15 17:56      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	50	%	40-130		100	11/02/15 12:00	11/03/15 10:58	321-60-8	
Terphenyl-d14 (S)	42	%	26-135		100	11/02/15 12:00	11/03/15 10:58	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>172</b>	ug/L	10.0	5.0	10		10/31/15 16:17	71-43-2	
Ethylbenzene	<b>137</b>	ug/L	10.0	5.0	10		10/31/15 16:17	100-41-4	
Toluene	<b>7.3J</b>	ug/L	10.0	5.0	10		10/31/15 16:17	108-88-3	
Xylene (Total)	<b>76.7</b>	ug/L	30.0	15.0	10		10/31/15 16:17	1330-20-7	
m&p-Xylene	<b>12.9J</b>	ug/L	20.0	10.0	10		10/31/15 16:17	179601-23-1	
o-Xylene	<b>63.7</b>	ug/L	10.0	5.0	10		10/31/15 16:17	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	105	%	70-130		10		10/31/15 16:17	1868-53-7	D3
Toluene-d8 (S)	109	%	70-130		10		10/31/15 16:17	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		10		10/31/15 16:17	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>&lt;10.0</b>	mg/L	20.0	10.0	5		11/09/15 19:53	14808-79-8	D3
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO <sub>3</sub>	<b>967</b>	mg/L	100	37.5	5		11/05/15 11:52		P6
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO <sub>2</sub> plus NO <sub>3</sub>	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		11/09/15 13:26		

**Sample: 102715020**      **Lab ID: 40123659020**      Collected: 10/27/15 18:37      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>6030</b>	ug/L	70.0	34.2	25		10/30/15 12:50	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	12/02/15 09:23	12/09/15 11:17	7429-90-5	
Antimony, Dissolved	<b>&lt;0.073</b>	ug/L	1.0	0.073	1	12/02/15 09:23	12/09/15 11:17	7440-36-0	
Copper, Dissolved	<b>0.58J</b>	ug/L	1.0	0.26	1	12/02/15 09:23	12/09/15 11:17	7440-50-8	
Iron, Dissolved	<b>36800</b>	ug/L	250	10.0	1	12/02/15 09:23	12/09/15 11:17	7439-89-6	
Manganese, Dissolved	<b>774</b>	ug/L	1.0	0.18	1	12/02/15 09:23	12/09/15 11:17	7439-96-5	
Nickel, Dissolved	<b>1.1</b>	ug/L	1.0	0.11	1	12/02/15 09:23	12/09/15 11:17	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	12/02/15 09:23	12/09/15 11:17	7440-22-4	
Vanadium, Dissolved	<b>0.36J</b>	ug/L	1.0	0.15	1	12/02/15 09:23	12/09/15 11:17	7440-62-2	
Zinc, Dissolved	<b>7.2J</b>	ug/L	10.0	3.1	1	12/02/15 09:23	12/09/15 11:17	7440-66-6	B

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

**Sample: 102715020**      **Lab ID: 40123659020**      Collected: 10/27/15 18:37      Received: 10/28/15 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510							
Acenaphthene	<b>2.0</b>	ug/L	0.048	0.0047	1	11/02/15 12:00	11/03/15 12:37	83-32-9	
Acenaphthylene	<b>0.072</b>	ug/L	0.048	0.0047	1	11/02/15 12:00	11/03/15 12:37	208-96-8	
Anthracene	<b>0.064</b>	ug/L	0.048	0.0038	1	11/02/15 12:00	11/03/15 12:37	120-12-7	
Benzo(a)anthracene	<b>0.024J</b>	ug/L	0.048	0.0049	1	11/02/15 12:00	11/03/15 12:37	56-55-3	
Benzo(a)pyrene	<b>0.012J</b>	ug/L	0.048	0.0042	1	11/02/15 12:00	11/03/15 12:37	50-32-8	
Benzo(b)fluoranthene	<b>0.020J</b>	ug/L	0.048	0.0051	1	11/02/15 12:00	11/03/15 12:37	205-99-2	
Benzo(g,h,i)perylene	<b>0.0070J</b>	ug/L	0.048	0.0033	1	11/02/15 12:00	11/03/15 12:37	191-24-2	
Benzo(k)fluoranthene	<b>0.0099J</b>	ug/L	0.048	0.0054	1	11/02/15 12:00	11/03/15 12:37	207-08-9	
Chrysene	<b>0.035J</b>	ug/L	0.048	0.0040	1	11/02/15 12:00	11/03/15 12:37	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0053</b>	ug/L	0.048	0.0053	1	11/02/15 12:00	11/03/15 12:37	53-70-3	
Fluoranthene	<b>0.20</b>	ug/L	0.048	0.0090	1	11/02/15 12:00	11/03/15 12:37	206-44-0	
Fluorene	<b>0.43</b>	ug/L	0.048	0.0038	1	11/02/15 12:00	11/03/15 12:37	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.0051J</b>	ug/L	0.048	0.0034	1	11/02/15 12:00	11/03/15 12:37	193-39-5	
1-Methylnaphthalene	<b>0.22</b>	ug/L	0.048	0.0029	1	11/02/15 12:00	11/03/15 12:37	90-12-0	
2-Methylnaphthalene	<b>0.021J</b>	ug/L	0.048	0.0026	1	11/02/15 12:00	11/03/15 12:37	91-57-6	B
Naphthalene	<b>0.097</b>	ug/L	0.048	0.0043	1	11/02/15 12:00	11/03/15 12:37	91-20-3	B
Phenanthrene	<b>0.12</b>	ug/L	0.048	0.0073	1	11/02/15 12:00	11/03/15 12:37	85-01-8	
Pyrene	<b>0.21</b>	ug/L	0.048	0.0073	1	11/02/15 12:00	11/03/15 12:37	129-00-0	
Total PAHs	<b>3.5</b>	ug/L			1	11/02/15 12:00	11/03/15 12:37		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	50	%	40-130		1	11/02/15 12:00	11/03/15 12:37	321-60-8	
Terphenyl-d14 (S)	73	%	26-135		1	11/02/15 12:00	11/03/15 12:37	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/31/15 15:12	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/31/15 15:12	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/31/15 15:12	108-88-3	
Xylene (Total)	<b>&lt;1.5</b>	ug/L	3.0	1.5	1		10/31/15 15:12	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/31/15 15:12	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/31/15 15:12	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	70-130		1		10/31/15 15:12	1868-53-7	
Toluene-d8 (S)	109	%	70-130		1		10/31/15 15:12	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		10/31/15 15:12	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<b>&lt;2.0</b>	mg/L	4.0	2.0	1		11/09/15 20:04	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	<b>534</b>	mg/L	100	37.5	5		11/05/15 11:55		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		11/09/15 13:27		M0

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## ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

**Sample information not related to current property and therefore not show.**

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

QC Batch: GCV/15274 Analysis Method: EPA 8015B Modified  
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV  
Associated Lab Samples: 40123659001, 40123659002, 40123659003, 40123659004, 40123659005, 40123659006, 40123659007, 40123659008, 40123659009, 40123659010, 40123659011, 40123659012, 40123659013, 40123659014, 40123659015, 40123659016, 40123659017, 40123659018, 40123659019, 40123659020

METHOD BLANK: 1249260 Matrix: Water  
Associated Lab Samples: 40123659001, 40123659002, 40123659003, 40123659004, 40123659005, 40123659006, 40123659007, 40123659008, 40123659009, 40123659010, 40123659011, 40123659012, 40123659013, 40123659014, 40123659015, 40123659016, 40123659017, 40123659018, 40123659019, 40123659020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<1.4	2.8	10/30/15 07:47	

LABORATORY CONTROL SAMPLE & LCSD: 1249261 1249262

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	28.5	29.5	100	103	74-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1249263 1249264

Parameter	Units	40123659012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	893	286	286	1710	1810	287	322	68-120	6	20	M1

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

QC Batch: MPRP/12996 Analysis Method: EPA 6020  
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
Associated Lab Samples: 40123659001, 40123659002, 40123659003, 40123659004, 40123659005, 40123659006, 40123659007, 40123659008, 40123659009, 40123659010, 40123659011, 40123659012, 40123659013, 40123659014, 40123659015, 40123659016, 40123659017, 40123659018, 40123659019, 40123659020

METHOD BLANK: 1267073 Matrix: Water  
Associated Lab Samples: 40123659001, 40123659002, 40123659003, 40123659004, 40123659005, 40123659006, 40123659007, 40123659008, 40123659009, 40123659010, 40123659011, 40123659012, 40123659013, 40123659014, 40123659015, 40123659016, 40123659017, 40123659018, 40123659019, 40123659020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<68.7	250	12/09/15 07:47	
Antimony, Dissolved	ug/L	<0.073	1.0	12/09/15 07:47	
Copper, Dissolved	ug/L	<0.26	1.0	12/09/15 07:47	
Iron, Dissolved	ug/L	22.0J	250	12/09/15 07:47	
Manganese, Dissolved	ug/L	<0.18	1.0	12/09/15 07:47	
Nickel, Dissolved	ug/L	<0.11	1.0	12/09/15 07:47	
Silver, Dissolved	ug/L	<0.016	0.50	12/09/15 07:47	
Vanadium, Dissolved	ug/L	<0.15	1.0	12/09/15 07:47	
Zinc, Dissolved	ug/L	4.2J	10.0	12/09/15 07:47	

LABORATORY CONTROL SAMPLE: 1267074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	5120	102	80-120	
Antimony, Dissolved	ug/L	500	527	105	80-120	
Copper, Dissolved	ug/L	500	539	108	80-120	
Iron, Dissolved	ug/L	5000	5240	105	80-120	
Manganese, Dissolved	ug/L	500	514	103	80-120	
Nickel, Dissolved	ug/L	500	525	105	80-120	
Silver, Dissolved	ug/L	250	259	104	80-120	
Vanadium, Dissolved	ug/L	500	522	104	80-120	
Zinc, Dissolved	ug/L	500	541	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1267075 1267076

Parameter	Units	40123659012 Result	MS Spike Conc.	MSD Spike Conc.	1267075		1267076		% Rec Limits	RPD	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec				
Aluminum, Dissolved	ug/L	87.9J	5000	5000	4660	4800	91	94	75-125	3	20	
Antimony, Dissolved	ug/L	0.31J	500	500	507	521	101	104	75-125	3	20	
Copper, Dissolved	ug/L	0.51J	500	500	485	503	97	101	75-125	4	20	
Iron, Dissolved	ug/L	16500	5000	5000	20000	20200	69	74	75-125	1	20	M0
Manganese, Dissolved	ug/L	525	500	500	966	983	88	92	75-125	2	20	
Nickel, Dissolved	ug/L	1.8	500	500	480	497	96	99	75-125	3	20	
Silver, Dissolved	ug/L	<0.016	250	250	223	231	89	92	75-125	4	20	
Vanadium, Dissolved	ug/L	4.8	500	500	510	528	101	105	75-125	3	20	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

Parameter	Units	40123659012		1267075		1267076		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Zinc, Dissolved	ug/L	10.0	500	500	510	530	100	104	75-125	4	20			

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

QC Batch: MSV/30953 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
 Associated Lab Samples: 40123659001, 40123659002, 40123659003, 40123659004, 40123659005, 40123659006, 40123659007, 40123659008, 40123659009, 40123659010, 40123659011, 40123659012, 40123659013, 40123659014, 40123659015, 40123659016, 40123659017, 40123659018

METHOD BLANK: 1248285 Matrix: Water  
 Associated Lab Samples: 40123659001, 40123659002, 40123659003, 40123659004, 40123659005, 40123659006, 40123659007, 40123659008, 40123659009, 40123659010, 40123659011, 40123659012, 40123659013, 40123659014, 40123659015, 40123659016, 40123659017, 40123659018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	10/30/15 17:46	
Ethylbenzene	ug/L	<0.50	1.0	10/30/15 17:46	
m&p-Xylene	ug/L	<1.0	2.0	10/30/15 17:46	
o-Xylene	ug/L	<0.50	1.0	10/30/15 17:46	
Toluene	ug/L	<0.50	1.0	10/30/15 17:46	
Xylene (Total)	ug/L	<1.5	3.0	10/30/15 17:46	
4-Bromofluorobenzene (S)	%	90	70-130	10/30/15 17:46	
Dibromofluoromethane (S)	%	105	70-130	10/30/15 17:46	
Toluene-d8 (S)	%	109	70-130	10/30/15 17:46	

LABORATORY CONTROL SAMPLE: 1248286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	51.7	103	70-130	
Ethylbenzene	ug/L	50	52.4	105	70-132	
m&p-Xylene	ug/L	100	108	108	70-131	
o-Xylene	ug/L	50	51.3	103	70-131	
Toluene	ug/L	50	52.3	105	70-130	
Xylene (Total)	ug/L	150	160	106	70-132	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			106	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1248287 1248288

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40123659012 Result	Spike Conc.	Spike Conc.	MSD Result								
Benzene	ug/L	<5.0	500	500	453	503	91	101	70-130	10	20		
Ethylbenzene	ug/L	75.9	500	500	601	605	105	106	70-132	1	20		
m&p-Xylene	ug/L	236	1000	1000	1290	1290	106	106	70-131	0	20		
o-Xylene	ug/L	233	500	500	760	759	106	105	70-131	0	20		
Toluene	ug/L	<5.0	500	500	508	502	102	100	70-130	1	20		
Xylene (Total)	ug/L	468	1500	1500	2050	2050	106	106	70-132	0	20		
4-Bromofluorobenzene (S)	%						99	99	70-130				
Dibromofluoromethane (S)	%						100	107	70-130				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1248287		1248288									
Parameter	Units	40123659012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Toluene-d8 (S)	%						103	105	70-130				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

QC Batch: MSV/30954 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Associated Lab Samples: 40123659019, 40123659020, 40123659021, 40123659022

METHOD BLANK: 1248289 Matrix: Water  
Associated Lab Samples: 40123659019, 40123659020, 40123659021, 40123659022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	10/31/15 07:55	
Ethylbenzene	ug/L	<0.50	1.0	10/31/15 07:55	
m&p-Xylene	ug/L	<1.0	2.0	10/31/15 07:55	
o-Xylene	ug/L	<0.50	1.0	10/31/15 07:55	
Toluene	ug/L	<0.50	1.0	10/31/15 07:55	
Xylene (Total)	ug/L	<1.5	3.0	10/31/15 07:55	
4-Bromofluorobenzene (S)	%	84	70-130	10/31/15 07:55	
Dibromofluoromethane (S)	%	105	70-130	10/31/15 07:55	
Toluene-d8 (S)	%	106	70-130	10/31/15 07:55	

LABORATORY CONTROL SAMPLE: 1248290

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	49.5	99	70-130	
Ethylbenzene	ug/L	50	52.3	105	70-132	
m&p-Xylene	ug/L	100	107	107	70-131	
o-Xylene	ug/L	50	51.0	102	70-131	
Toluene	ug/L	50	51.5	103	70-130	
Xylene (Total)	ug/L	150	158	105	70-132	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1250076 1250077

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40123663001 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	ND	50	50	50.9	50.9	102	102	70-130	0	20
Ethylbenzene	ug/L	ND	50	50	53.3	51.8	107	104	70-132	3	20
m&p-Xylene	ug/L	ND	100	100	110	105	110	105	70-131	4	20
o-Xylene	ug/L	ND	50	50	52.4	50.4	105	101	70-131	4	20
Toluene	ug/L	ND	50	50	53.2	51.5	106	103	70-130	3	20
Xylene (Total)	ug/L	ND	150	150	162	156	108	104	70-132	4	20
4-Bromofluorobenzene (S)	%						101	96	70-130		
Dibromofluoromethane (S)	%						105	106	70-130		
Toluene-d8 (S)	%						107	104	70-130		

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

QC Batch: OEXT/28550 Analysis Method: EPA 8270 by HVI  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI  
 Associated Lab Samples: 40123659001, 40123659002

METHOD BLANK: 1250072 Matrix: Water

Associated Lab Samples: 40123659001, 40123659002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.0057J	0.050	11/02/15 10:11	
2-Methylnaphthalene	ug/L	0.0093J	0.050	11/02/15 10:11	
Acenaphthene	ug/L	<0.0050	0.050	11/02/15 10:11	
Acenaphthylene	ug/L	<0.0049	0.050	11/02/15 10:11	
Anthracene	ug/L	<0.0040	0.050	11/02/15 10:11	
Benzo(a)anthracene	ug/L	<0.0051	0.050	11/02/15 10:11	
Benzo(a)pyrene	ug/L	<0.0044	0.050	11/02/15 10:11	
Benzo(b)fluoranthene	ug/L	0.0054J	0.050	11/02/15 10:11	
Benzo(g,h,i)perylene	ug/L	0.0035J	0.050	11/02/15 10:11	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	11/02/15 10:11	
Chrysene	ug/L	0.0049J	0.050	11/02/15 10:11	
Dibenz(a,h)anthracene	ug/L	<0.0056	0.050	11/02/15 10:11	
Fluoranthene	ug/L	<0.0094	0.050	11/02/15 10:11	
Fluorene	ug/L	<0.0040	0.050	11/02/15 10:11	
Indeno(1,2,3-cd)pyrene	ug/L	0.0037J	0.050	11/02/15 10:11	
Naphthalene	ug/L	0.014J	0.050	11/02/15 10:11	
Phenanthrene	ug/L	0.0091J	0.050	11/02/15 10:11	
Pyrene	ug/L	<0.0077	0.050	11/02/15 10:11	
Total PAHs	ug/L	0.084		11/02/15 10:11	
2-Fluorobiphenyl (S)	%	67	40-130	11/02/15 10:11	
Terphenyl-d14 (S)	%	101	26-135	11/02/15 10:11	

LABORATORY CONTROL SAMPLE: 1250073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.4	70	46-130	
2-Methylnaphthalene	ug/L	2	1.4	72	47-130	
Acenaphthene	ug/L	2	1.5	75	49-130	
Acenaphthylene	ug/L	2	1.5	76	44-130	
Anthracene	ug/L	2	1.6	79	53-130	
Benzo(a)anthracene	ug/L	2	1.8	90	49-130	
Benzo(a)pyrene	ug/L	2	2.1	104	47-130	
Benzo(b)fluoranthene	ug/L	2	1.9	95	54-133	
Benzo(g,h,i)perylene	ug/L	2	1.3	63	33-132	
Benzo(k)fluoranthene	ug/L	2	2.0	101	59-143	
Chrysene	ug/L	2	2.1	105	70-157	
Dibenz(a,h)anthracene	ug/L	2	1.1	57	24-130	
Fluoranthene	ug/L	2	1.9	97	59-130	
Fluorene	ug/L	2	1.5	76	49-130	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	85	52-130	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

LABORATORY CONTROL SAMPLE: 1250073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	1.4	70	45-130	
Phenanthrene	ug/L	2	1.8	88	60-130	
Pyrene	ug/L	2	2.0	99	64-147	
Total PAHs	ug/L		30.0			
2-Fluorobiphenyl (S)	%			67	40-130	
Terphenyl-d14 (S)	%			100	26-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1250074 1250075

Parameter	Units	40123660010		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1-Methylnaphthalene	ug/L	0.0039J	1.9	2	1.4	1.6	74	79	27-130	9	42		
2-Methylnaphthalene	ug/L	0.0063J	1.9	2	1.5	1.6	76	80	33-130	9	37		
Acenaphthene	ug/L	<0.0053	1.9	2	1.6	1.7	80	84	32-130	8	35		
Acenaphthylene	ug/L	<0.0053	1.9	2	1.5	1.6	76	80	34-130	8	29		
Anthracene	ug/L	<0.0043	1.9	2	1.6	1.7	82	84	31-130	5	29		
Benzo(a)anthracene	ug/L	0.016J	1.9	2	1.7	1.7	87	84	35-135	0	20		
Benzo(a)pyrene	ug/L	0.014J	1.9	2	2.0	2.0	101	102	21-139	4	22		
Benzo(b)fluoranthene	ug/L	0.026J	1.9	2	2.0	2.1	103	104	26-144	4	20		
Benzo(g,h,i)perylene	ug/L	0.014J	1.9	2	1.2	1.5	60	74	10-142	23	20	R1	
Benzo(k)fluoranthene	ug/L	0.013J	1.9	2	2.1	2.2	108	110	21-155	4	20		
Chrysene	ug/L	0.022J	1.9	2	2.2	2.3	114	112	46-157	1	20		
Dibenz(a,h)anthracene	ug/L	<0.0059	1.9	2	1.2	1.4	62	70	10-143	16	20		
Fluoranthene	ug/L	0.034J	1.9	2	2.0	2.0	101	99	35-138	2	20		
Fluorene	ug/L	<0.0043	1.9	2	1.6	1.7	83	86	28-130	7	27		
Indeno(1,2,3-cd)pyrene	ug/L	0.0095J	1.9	2	1.4	1.7	72	85	16-139	20	20		
Naphthalene	ug/L	0.015J	1.9	2	1.4	1.6	74	78	35-130	9	39		
Phenanthrene	ug/L	0.014J	1.9	2	1.9	2.0	99	99	41-131	3	22		
Pyrene	ug/L	0.034J	1.9	2	2.1	2.1	105	104	50-151	1	20		
Total PAHs	ug/L	0.23			30.5	32.5					7		
2-Fluorobiphenyl (S)	%						73	79	40-130				
Terphenyl-d14 (S)	%						109	107	26-135				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

QC Batch:	OEXT/28552	Analysis Method:	EPA 8270 by HVI
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water PAH by HVI
Associated Lab Samples:	40123659003, 40123659004, 40123659005, 40123659006, 40123659007, 40123659008, 40123659009, 40123659010, 40123659011, 40123659012, 40123659013, 40123659014, 40123659015, 40123659016, 40123659017, 40123659018, 40123659019, 40123659020		

METHOD BLANK: 1250314 Matrix: Water  
Associated Lab Samples: 40123659003, 40123659004, 40123659005, 40123659006, 40123659007, 40123659008, 40123659009, 40123659010, 40123659011, 40123659012, 40123659013, 40123659014, 40123659015, 40123659016, 40123659017, 40123659018, 40123659019, 40123659020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.013J	0.050	11/02/15 13:47	
2-Methylnaphthalene	ug/L	0.018J	0.050	11/02/15 13:47	
Acenaphthene	ug/L	<0.0050	0.050	11/02/15 13:47	
Acenaphthylene	ug/L	<0.0049	0.050	11/02/15 13:47	
Anthracene	ug/L	<0.0040	0.050	11/02/15 13:47	
Benzo(a)anthracene	ug/L	<0.0051	0.050	11/02/15 13:47	
Benzo(a)pyrene	ug/L	<0.0044	0.050	11/02/15 13:47	
Benzo(b)fluoranthene	ug/L	<0.0053	0.050	11/02/15 13:47	
Benzo(g,h,i)perylene	ug/L	<0.0035	0.050	11/02/15 13:47	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	11/02/15 13:47	
Chrysene	ug/L	<0.0042	0.050	11/02/15 13:47	
Dibenz(a,h)anthracene	ug/L	<0.0056	0.050	11/02/15 13:47	
Fluoranthene	ug/L	<0.0094	0.050	11/02/15 13:47	
Fluorene	ug/L	<0.0040	0.050	11/02/15 13:47	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	0.050	11/02/15 13:47	
Naphthalene	ug/L	0.16	0.050	11/02/15 13:47	
Phenanthrene	ug/L	<0.0077	0.050	11/02/15 13:47	
Pyrene	ug/L	<0.0077	0.050	11/02/15 13:47	
Total PAHs	ug/L	0.21		11/02/15 13:47	
2-Fluorobiphenyl (S)	%	59	40-130	11/02/15 13:47	
Terphenyl-d14 (S)	%	102	26-135	11/02/15 13:47	

LABORATORY CONTROL SAMPLE: 1250315

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.4	68	46-130	
2-Methylnaphthalene	ug/L	2	1.4	70	47-130	
Acenaphthene	ug/L	2	1.5	74	49-130	
Acenaphthylene	ug/L	2	1.3	66	44-130	
Anthracene	ug/L	2	1.3	67	53-130	
Benzo(a)anthracene	ug/L	2	1.4	70	49-130	
Benzo(a)pyrene	ug/L	2	1.8	89	47-130	
Benzo(b)fluoranthene	ug/L	2	2.0	100	54-133	
Benzo(g,h,i)perylene	ug/L	2	1.2	59	33-132	
Benzo(k)fluoranthene	ug/L	2	2.2	112	59-143	
Chrysene	ug/L	2	2.2	109	70-157	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

LABORATORY CONTROL SAMPLE: 1250315

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibenz(a,h)anthracene	ug/L	2	1.0	51	24-130	
Fluoranthene	ug/L	2	1.7	87	59-130	
Fluorene	ug/L	2	1.5	75	49-130	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.5	76	52-130	
Naphthalene	ug/L	2	1.4	70	45-130	
Phenanthrene	ug/L	2	1.8	88	60-130	
Pyrene	ug/L	2	1.9	94	64-147	
Total PAHs	ug/L		28.5			
2-Fluorobiphenyl (S)	%			68	40-130	
Terphenyl-d14 (S)	%			103	26-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1250316 1250317

Parameter	Units	40123659012		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	Result						
1-Methylnaphthalene	ug/L	5.2	2	2	5.8	5.9	31	38	27-130	2	42		
2-Methylnaphthalene	ug/L	2.6J	2	2	3.5	3.5	46	48	33-130	1	37		
Acenaphthene	ug/L	0.89J	2	2	1.9J	2.0J	49	57	32-130		35		
Acenaphthylene	ug/L	<0.26	2	2	0.96J	1.0J	41	45	34-130		29		
Anthracene	ug/L	<0.21	2	2	0.69J	0.69J	35	35	31-130		29		
Benzo(a)anthracene	ug/L	<0.27	2	2	1.0J	1.1J	52	55	35-135		20		
Benzo(a)pyrene	ug/L	<0.23	2	2	0.86J	0.86J	44	44	21-139		22		
Benzo(b)fluoranthene	ug/L	<0.28	2	2	1.3J	1.3J	58	59	26-144		20		
Benzo(g,h,i)perylene	ug/L	<0.18	2	2	0.66J	0.67J	34	34	10-142		20		
Benzo(k)fluoranthene	ug/L	<0.30	2	2	0.95J	0.70J	44	32	21-155		20		
Chrysene	ug/L	<0.22	2	2	1.5J	1.3J	67	62	46-157		20		
Dibenz(a,h)anthracene	ug/L	<0.29	2	2	0.38J	0.36J	20	18	10-143		20		
Fluoranthene	ug/L	<0.49	2	2	1.2J	1.3J	51	56	35-138		20		
Fluorene	ug/L	0.21J	2	2	1.2J	1.3J	51	54	28-130		27		
Indeno(1,2,3-cd)pyrene	ug/L	<0.19	2	2	0.51J	0.55J	26	28	16-139		20		
Naphthalene	ug/L	371	2	2	348	353	-1150	-913	35-130	1	39	M6	
Phenanthrene	ug/L	0.44J	2	2	1.6J	1.6J	60	60	41-131		22		
Pyrene	ug/L	0.50J	2	2	1.8J	1.8J	65	66	50-151		20		
Total PAHs	ug/L	381			374	379					1		
2-Fluorobiphenyl (S)	%						53	54	40-130				
Terphenyl-d14 (S)	%						59	67	26-135				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

QC Batch: WETA/31118 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40123659001, 40123659002, 40123659003, 40123659004, 40123659005, 40123659006, 40123659007, 40123659008, 40123659009, 40123659010, 40123659011

METHOD BLANK: 1253979 Matrix: Water  
Associated Lab Samples: 40123659001, 40123659002, 40123659003, 40123659004, 40123659005, 40123659006, 40123659007, 40123659008, 40123659009, 40123659010, 40123659011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	4.0	11/10/15 10:06	

LABORATORY CONTROL SAMPLE: 1253980

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: 1253981 1253982

Parameter	Units	40123991006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	831	1000	1000	1820	1810	99	97	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1253983 1253984

Parameter	Units	40123659011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	119	100	100	223	221	104	102	90-110	1	20	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

QC Batch: WETA/31135 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40123659012, 40123659013, 40123659014, 40123659015, 40123659016, 40123659017, 40123659018, 40123659019, 40123659020

METHOD BLANK: 1254912 Matrix: Water  
Associated Lab Samples: 40123659012, 40123659013, 40123659014, 40123659015, 40123659016, 40123659017, 40123659018, 40123659019, 40123659020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	4.0	11/09/15 17:23	

LABORATORY CONTROL SAMPLE: 1254913

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: 1254914 1254915

Parameter	Units	40123659012 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Sulfate	mg/L	<10.0	100	100	102	103	93	93	90-110	1	20			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1254916 1254917

Parameter	Units	40123732001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Sulfate	mg/L	85.7	400	400	464	463	95	94	90-110	0	20			

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

QC Batch: WETA/31081 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
Associated Lab Samples: 40123659001, 40123659002, 40123659003, 40123659004, 40123659005, 40123659006, 40123659007, 40123659008, 40123659009, 40123659010, 40123659011, 40123659012, 40123659013, 40123659014, 40123659015, 40123659016, 40123659017, 40123659018, 40123659019

METHOD BLANK: 1252700 Matrix: Water  
Associated Lab Samples: 40123659001, 40123659002, 40123659003, 40123659004, 40123659005, 40123659006, 40123659007, 40123659008, 40123659009, 40123659010, 40123659011, 40123659012, 40123659013, 40123659014, 40123659015, 40123659016, 40123659017, 40123659018, 40123659019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.5	20.0	11/05/15 10:28	

LABORATORY CONTROL SAMPLE: 1252701

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	103	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1252702 1252703

Parameter	Units	40123659012		1252703		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	936	100	100	1020	1010	79	72	90-110	1	20	P6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1252704 1252705

Parameter	Units	40123659019		1252705		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	967	100	100	1070	1050	106	85	90-110	2	20	P6

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

QC Batch: WETA/31082 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
Associated Lab Samples: 40123659020

METHOD BLANK: 1252706 Matrix: Water  
Associated Lab Samples: 40123659020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<7.5	20.0	11/05/15 10:50	

LABORATORY CONTROL SAMPLE: 1252707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	100	99.2	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1252708 1252709

Parameter	Units	1252708		1252709		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40124038002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	318	200	200	501	502	91	92	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1252710 1252711

Parameter	Units	1252710		1252711		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40124038001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	260	200	200	426	441	83	90	90-110	3	20 M0	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

QC Batch: WETA/31134 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 40123659001, 40123659002, 40123659003, 40123659004, 40123659005, 40123659006, 40123659007, 40123659008, 40123659009, 40123659010, 40123659011, 40123659012, 40123659013, 40123659014, 40123659015, 40123659016, 40123659017, 40123659018, 40123659019, 40123659020

METHOD BLANK: 1254873 Matrix: Water  
Associated Lab Samples: 40123659001, 40123659002, 40123659003, 40123659004, 40123659005, 40123659006, 40123659007, 40123659008, 40123659009, 40123659010, 40123659011, 40123659012, 40123659013, 40123659014, 40123659015, 40123659016, 40123659017, 40123659018, 40123659019, 40123659020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	11/09/15 13:02	

LABORATORY CONTROL SAMPLE: 1254874

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.6	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1254875 1254876

Parameter	Units	40123659012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.095	2.5	2.5	2.4	2.3	98	93	90-110	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1254877 1254878

Parameter	Units	40123659020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.095	2.5	2.5	2.2	2.1	88	83	90-110	6	20 M0	

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## QUALIFIERS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### BATCH QUALIFIERS

Batch: MSSV/8434

[1] Naphthalene was present above the RDL in the Extraction Blank, samples were either below the RDL for this compound, greater than 20 times the blank value for this compound, or were not able to be re-extracted due to lack of sample hold time.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

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

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

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

R1 RPD value was outside control limits.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40123659001	102615001	EPA 8015B Modified	GCV/15274		
40123659002	102615002	EPA 8015B Modified	GCV/15274		
40123659003	102715003	EPA 8015B Modified	GCV/15274		
40123659004	102715004	EPA 8015B Modified	GCV/15274		
40123659005	102715005	EPA 8015B Modified	GCV/15274		
40123659006	102715006	EPA 8015B Modified	GCV/15274		
40123659007	102715007	EPA 8015B Modified	GCV/15274		
40123659008	102715008	EPA 8015B Modified	GCV/15274		
40123659009	102715009	EPA 8015B Modified	GCV/15274		
40123659010	102715010	EPA 8015B Modified	GCV/15274		
40123659011	102715011	EPA 8015B Modified	GCV/15274		
40123659012	102715012	EPA 8015B Modified	GCV/15274		
40123659013	102715013	EPA 8015B Modified	GCV/15274		
40123659014	102715014	EPA 8015B Modified	GCV/15274		
40123659015	102715015	EPA 8015B Modified	GCV/15274		
40123659016	102715016	EPA 8015B Modified	GCV/15274		
40123659017	102715017	EPA 8015B Modified	GCV/15274		
40123659018	102715018	EPA 8015B Modified	GCV/15274		
40123659019	102715019	EPA 8015B Modified	GCV/15274		
40123659020	102715020	EPA 8015B Modified	GCV/15274		
40123659001	102615001	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659002	102615002	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659003	102715003	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659004	102715004	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659005	102715005	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659006	102715006	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659007	102715007	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659008	102715008	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659009	102715009	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659010	102715010	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659011	102715011	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659012	102715012	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659013	102715013	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659014	102715014	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659015	102715015	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659016	102715016	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659017	102715017	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659018	102715018	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659019	102715019	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659020	102715020	EPA 3010	MPRP/12996	EPA 6020	ICPM/6050
40123659001	102615001	EPA 3510	OEXT/28550	EPA 8270 by HVI	MSSV/8433
40123659002	102615002	EPA 3510	OEXT/28550	EPA 8270 by HVI	MSSV/8433
40123659003	102715003	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659004	102715004	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659005	102715005	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659006	102715006	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659007	102715007	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40123659008	102715008	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659009	102715009	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659010	102715010	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659011	102715011	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659012	102715012	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659013	102715013	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659014	102715014	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659015	102715015	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659016	102715016	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659017	102715017	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659018	102715018	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659019	102715019	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659020	102715020	EPA 3510	OEXT/28552	EPA 8270 by HVI	MSSV/8434
40123659001	102615001	EPA 8260	MSV/30953		
40123659002	102615002	EPA 8260	MSV/30953		
40123659003	102715003	EPA 8260	MSV/30953		
40123659004	102715004	EPA 8260	MSV/30953		
40123659005	102715005	EPA 8260	MSV/30953		
40123659006	102715006	EPA 8260	MSV/30953		
40123659007	102715007	EPA 8260	MSV/30953		
40123659008	102715008	EPA 8260	MSV/30953		
40123659009	102715009	EPA 8260	MSV/30953		
40123659010	102715010	EPA 8260	MSV/30953		
40123659011	102715011	EPA 8260	MSV/30953		
40123659012	102715012	EPA 8260	MSV/30953		
40123659013	102715013	EPA 8260	MSV/30953		
40123659014	102715014	EPA 8260	MSV/30953		
40123659015	102715015	EPA 8260	MSV/30953		
40123659016	102715016	EPA 8260	MSV/30953		
40123659017	102715017	EPA 8260	MSV/30953		
40123659018	102715018	EPA 8260	MSV/30953		
40123659019	102715019	EPA 8260	MSV/30954		
40123659020	102715020	EPA 8260	MSV/30954		
40123659021	102715021	EPA 8260	MSV/30954		
40123659022	102715022	EPA 8260	MSV/30954		
40123659001	102615001	EPA 300.0	WETA/31118		
40123659002	102615002	EPA 300.0	WETA/31118		
40123659003	102715003	EPA 300.0	WETA/31118		
40123659004	102715004	EPA 300.0	WETA/31118		
40123659005	102715005	EPA 300.0	WETA/31118		
40123659006	102715006	EPA 300.0	WETA/31118		
40123659007	102715007	EPA 300.0	WETA/31118		
40123659008	102715008	EPA 300.0	WETA/31118		
40123659009	102715009	EPA 300.0	WETA/31118		
40123659010	102715010	EPA 300.0	WETA/31118		
40123659011	102715011	EPA 300.0	WETA/31118		
40123659012	102715012	EPA 300.0	WETA/31135		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40123659

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40123659013	102715013	EPA 300.0	WETA/31135		
40123659014	102715014	EPA 300.0	WETA/31135		
40123659015	102715015	EPA 300.0	WETA/31135		
40123659016	102715016	EPA 300.0	WETA/31135		
40123659017	102715017	EPA 300.0	WETA/31135		
40123659018	102715018	EPA 300.0	WETA/31135		
40123659019	102715019	EPA 300.0	WETA/31135		
40123659020	102715020	EPA 300.0	WETA/31135		
40123659001	102615001	EPA 310.2	WETA/31081		
40123659002	102615002	EPA 310.2	WETA/31081		
40123659003	102715003	EPA 310.2	WETA/31081		
40123659004	102715004	EPA 310.2	WETA/31081		
40123659005	102715005	EPA 310.2	WETA/31081		
40123659006	102715006	EPA 310.2	WETA/31081		
40123659007	102715007	EPA 310.2	WETA/31081		
40123659008	102715008	EPA 310.2	WETA/31081		
40123659009	102715009	EPA 310.2	WETA/31081		
40123659010	102715010	EPA 310.2	WETA/31081		
40123659011	102715011	EPA 310.2	WETA/31081		
40123659012	102715012	EPA 310.2	WETA/31081		
40123659013	102715013	EPA 310.2	WETA/31081		
40123659014	102715014	EPA 310.2	WETA/31081		
40123659015	102715015	EPA 310.2	WETA/31081		
40123659016	102715016	EPA 310.2	WETA/31081		
40123659017	102715017	EPA 310.2	WETA/31081		
40123659018	102715018	EPA 310.2	WETA/31081		
40123659019	102715019	EPA 310.2	WETA/31081		
40123659020	102715020	EPA 310.2	WETA/31082		
40123659001	102615001	EPA 353.2	WETA/31134		
40123659002	102615002	EPA 353.2	WETA/31134		
40123659003	102715003	EPA 353.2	WETA/31134		
40123659004	102715004	EPA 353.2	WETA/31134		
40123659005	102715005	EPA 353.2	WETA/31134		
40123659006	102715006	EPA 353.2	WETA/31134		
40123659007	102715007	EPA 353.2	WETA/31134		
40123659008	102715008	EPA 353.2	WETA/31134		
40123659009	102715009	EPA 353.2	WETA/31134		
40123659010	102715010	EPA 353.2	WETA/31134		
40123659011	102715011	EPA 353.2	WETA/31134		
40123659012	102715012	EPA 353.2	WETA/31134		
40123659013	102715013	EPA 353.2	WETA/31134		
40123659014	102715014	EPA 353.2	WETA/31134		
40123659015	102715015	EPA 353.2	WETA/31134		
40123659016	102715016	EPA 353.2	WETA/31134		
40123659017	102715017	EPA 353.2	WETA/31134		
40123659018	102715018	EPA 353.2	WETA/31134		
40123659019	102715019	EPA 353.2	WETA/31134		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40123659

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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
40123659020	102715020	EPA 353.2	WETA/31134		

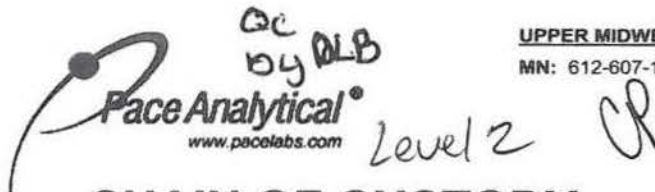
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### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Natural Resource Tech  
 Branch/Location: Milwaukee, WI  
 Project Contact: Brian Hennings  
 Phone: 414-837-3524  
 Project Number: 1549  
 Project Name: Marinette Former MGP  
 Project State: WI  
 Sampled By (Print): Andrew Course  
 Sampled By (Sign): [Signature]  
 PO #: 3400010643 Regulatory Program:



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

Mar-001

40123059

### CHAIN OF CUSTODY

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

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

Y/N	N	N	Y	N	N	N	N
Pick Letter	B	A	D	A	A	B	C
Analyses Requested	BTEX 8260	PAH 8270	Metals 6020	Alkalinity 310.2	Sulfate 300	Methane 8015	Nitrate/Nitrite 5532

Quote #: \_\_\_\_\_  
 Mail To Contact: Data@naturalresource.com  
 Mail To Company: Natural Resource Tech  
 Mail To Address: 234 W Floridast Milwaukee, WI  
 Invoice To Contact: Accounts Payable  
 Invoice To Company: WPSC  
 Invoice To Address: PO Box 14800 Green Bay, WI  
 Invoice To Phone: 920-433-2929  
 CLIENT COMMENTS: \_\_\_\_\_  
 LAB COMMENTS (Lab Use Only): \_\_\_\_\_  
 Profile #: \_\_\_\_\_

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	102615001	10/26/15	17:24	GW
002	102615002	10/26/15	18:06	
003	102715003	10/27/15	7:07	
004	102715004		8:10	
005	102715009		8:47	
006	102715006		8:52	
007	102715007		9:31	
008	102715008		10:20	
009	102715009		11:06	
010	102715010		11:49	
011	102715011		13:00	
012	102715012		13:39	
013	102715013		14:05	

★ Al, Sb, Cu, Ni, Ag, V, Zn, Fe, Mn  
 3-250mlp<sup>100</sup> 2-100mlg<sup>100</sup> 40ml  
 ms/msd  
 6-100mlg<sup>100</sup> 18-40ml<sup>100</sup> 40ml<sup>100</sup>

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

Relinquished By: [Signature] Date/Time: 10/28/15 10:00  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: [Signature] Date/Time: 10/28/15 10:00  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

PACE Project No. 40123059  
 Receipt Temp = ROT °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present  
 Intact / Not Intact

(Please Print Clearly)

Company Name: Natural Resource Tech  
 Branch/Location: Milwaukee, WI  
 Project Contact: Brian Hennings  
 Phone: 414-837-3524  
 Project Number: 1549  
 Project Name: Marinette Former-MGP  
 Project State: WI  
 Sampled By (Print): Andrew Cawise  
 Sampled By (Sign): [Signature]  
 PO #: 3400010643 Regulatory Program:



UPPER MIDWEST REGION

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

Level 2

Mar-002

### CHAIN OF CUSTODY

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

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

Y/N	Pick Letter	Analyses Requested							
		N	N	Y	N	N	N	N	N
		B	A	D	A	A	B	C	
		BTEX 8260	PAH 8270	Metals 6020	Alkalinity 310.2	Sulfate 300	Methane 805	Nitrate/Nitrite 353.2	

**Quote #:**  
**Mail To Contact:** Data@naturalrt.com  
**Mail To Company:** Natural Resource Tech  
**Mail To Address:** 234 W Florida St Milwaukee, WI  
**Invoice To Contact:** Accounts Payable  
**Invoice To Company:** WPSC  
**Invoice To Address:** PO Box 19800 Green Bay, WI  
**Invoice To Phone:** 920-433-2929

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
014	102715014	10/27/15	15:09	GW
015	102715015		15:14	
016	102715016		15:50	
017	102715017		16:43	
018	102715018		17:20	
019	102715019		17:56	
020	102715020		18:37	
021	102715021	-	-	-
022	102715022	10/27/15	18:50	W

**CLIENT COMMENTS**  
 \*Aluminum, Antimony, 3-250ml<sup>15</sup>  
 Copper, Nickel, Silver  
 Vanadium, Zinc, Iron, Manganese  
 Trip

**LAB COMMENTS (Lab Use Only)**  
 2-40mlv<sup>B</sup>  
 3-40mlv<sup>B</sup>

**Profile #**

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_

Relinquished By: [Signature] Date/Time: 10/28/15 10:00  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: [Signature] Date/Time: 10-28-15 1000  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Transmit Prelim Rush Results by (complete what you want): \_\_\_\_\_

Email #1: \_\_\_\_\_ Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Email #2: \_\_\_\_\_ Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Telephone: \_\_\_\_\_ Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Fax: \_\_\_\_\_ Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 40123059  
 Receipt Temp = ROI °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present Intact / Not Intact



Sample Condition Upon Receipt

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

Project #: WO#: 40123659

Client Name: NRT

Courier: Fed Ex UPS 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 N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RDT Corr: Biological Tissue is Frozen: yes

Temp Blank Present: yes no

Person examining contents:
Date: 10/28/15
Initials: TL

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Table with 15 rows for checklist items (Chain of Custody, Short Hold Time Analysis, Rush Turn Around Time, etc.) and checkboxes for Yes/No/N/A.

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

Project Manager Review: [Signature] Date: 10-28-15

April 29, 2016

Brian Hennings  
NATURAL RESOURCE TECHNOLOGY  
234 W. Florida St, 5th Floor  
Milwaukee, WI 53204

RE: Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

Dear Brian Hennings:

Enclosed are the analytical results for sample(s) received by the laboratory on April 13, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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  
Project Manager

Enclosures

cc: NRT Data, Natural Resource Technologies



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

---

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP ID: 460263

Virginia VELAP Certification ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40130733001	041216001	Water	04/12/16 11:05	04/13/16 12:55
40130733002	041216002	Water	04/12/16 11:45	04/13/16 12:55
40130733003	041216003	Water	04/12/16 12:20	04/13/16 12:55
40130733004	041216004	Water	04/12/16 13:10	04/13/16 12:55
40130733005	041216005	Water	04/12/16 13:15	04/13/16 12:55
40130733006	041216006	Water	04/12/16 14:41	04/13/16 12:55
40130733007	041216007	Water	04/12/16 15:34	04/13/16 12:55
40130733008	041216008	Water	04/12/16 16:51	04/13/16 12:55
40130733009	041216009	Water	04/12/16 17:59	04/13/16 12:55
40130733010	041216010	Water	04/12/16 18:04	04/13/16 12:55
40130733011	041216011	Water	04/12/16 18:56	04/13/16 12:55
40130733012	041316012	Water	04/13/16 07:00	04/13/16 12:55
40130733013	041316013	Water	04/13/16 07:44	04/13/16 12:55
40130733014	041316014	Water	04/13/16 08:34	04/13/16 12:55
40130733015	041316015	Water	04/13/16 09:18	04/13/16 12:55
40130733016	041316016	Water	04/13/16 10:05	04/13/16 12:55
40130733017	041316017	Water	04/13/16 10:30	04/13/16 12:55
40130733018	041316018	Water	04/13/16 00:00	04/13/16 12:55

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40130733001	041216001	EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40130733002	041216002	EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40130733003	041216003	EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40130733004	041216004	EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40130733005	041216005	EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40130733006	041216006	EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40130733007	041216007	EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
40130733008	041216008	EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	JSK	1	PASI-G
40130733009	041216009	EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
40130733010	041216010	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40130733011	041216011	EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
		EPA 300.0	HMB	1	PASI-G

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40130733012	041316012	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
40130733013	041316013	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
40130733014	041316014	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
40130733015	041316015	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G
40130733016	041316016	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	JSK	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	SMT	9	PASI-G

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	DAW	1	PASI-G
40130733017	041316017	EPA 8260	SMT	9	PASI-G
40130733018	041316018	EPA 8260	SMT	9	PASI-G

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

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**Method:** EPA 8015B Modified

**Description:** Methane, Ethane, Ethene GCV

**Client:** Natural Resources Technologies

**Date:** April 29, 2016

**General Information:**

16 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: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

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**Method:** EPA 6020

**Description:** 6020 MET ICPMS, Dissolved

**Client:** Natural Resources Technologies

**Date:** April 29, 2016

**General Information:**

16 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: MPRP/13638

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

- 041216008 (Lab ID: 40130733008)
  - Silver, Dissolved

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

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**Method:** EPA 8270 by HVI

**Description:** 8270 MSSV PAH by HVI

**Client:** Natural Resources Technologies

**Date:** April 29, 2016

### General Information:

16 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.

### Method Blank:

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

QC Batch: OEXT/30167

B: Analyte was detected in the associated method blank.

- BLANK for HBN 221944 [OEXT/301 (Lab ID: 1319925)]
- Chrysene

QC Batch: OEXT/30173

B: Analyte was detected in the associated method blank.

- BLANK for HBN 222028 [OEXT/301 (Lab ID: 1320447)]
- Naphthalene

QC Batch: OEXT/30184

B: Analyte was detected in the associated method blank.

- BLANK for HBN 222243 [OEXT/301 (Lab ID: 1322122)]
- Benzo(g,h,i)perylene
- Indeno(1,2,3-cd)pyrene
- Naphthalene

### Laboratory Control Spike:

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

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

---

**Method:** EPA 8270 by HVI

**Description:** 8270 MSSV PAH by HVI

**Client:** Natural Resources Technologies

**Date:** April 29, 2016

### Matrix Spikes:

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

QC Batch: OEXT/30184

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

### Additional Comments:

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

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**Method:** EPA 8260

**Description:** 8260 MSV UST

**Client:** Natural Resources Technologies

**Date:** April 29, 2016

**General Information:**

18 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:**

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

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**Method:** EPA 300.0

**Description:** 300.0 IC Anions 28 Days

**Client:** Natural Resources Technologies

**Date:** April 29, 2016

**General Information:**

16 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.

**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.

**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: WETA/33212

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

- 041316012 (Lab ID: 40130733012)
  - Sulfate
- 041316015 (Lab ID: 40130733015)
  - Sulfate
- 041316016 (Lab ID: 40130733016)
  - Sulfate

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

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**Method:** EPA 310.2

**Description:** 310.2 Alkalinity

**Client:** Natural Resources Technologies

**Date:** April 29, 2016

**General Information:**

16 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.

**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.

**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: WETA/33228

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40130733008,40130981005

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

- MS (Lab ID: 1322861)
  - Alkalinity, Total as CaCO<sub>3</sub>
- MSD (Lab ID: 1322862)
  - Alkalinity, Total as CaCO<sub>3</sub>

**Additional Comments:**

Analyte Comments:

QC Batch: WETA/33228

1q: Analyte was measured in the associated method blank at a concentration of -12.9 mg/L.

- 041216011 (Lab ID: 40130733011)
  - Alkalinity, Total as CaCO<sub>3</sub>
- 041316012 (Lab ID: 40130733012)
  - Alkalinity, Total as CaCO<sub>3</sub>

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

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**Method:** EPA 353.2  
**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.  
**Client:** Natural Resources Technologies  
**Date:** April 29, 2016

**General Information:**

16 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.

**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.

**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: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

Sample: 041216001 Lab ID: 40130733001 Collected: 04/12/16 11:05 Received: 04/13/16 12:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Methane	<1.4	ug/L	2.8	1.4	1		04/20/16 08:28	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 04:11	7429-90-5	
Antimony, Dissolved	0.16J	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 04:11	7440-36-0	
Copper, Dissolved	4.1	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 04:11	7440-50-8	
Iron, Dissolved	598	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 04:11	7439-89-6	
Manganese, Dissolved	0.33J	ug/L	1.0	0.18	1	04/20/16 08:40	04/26/16 04:11	7439-96-5	
Nickel, Dissolved	0.72J	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 04:11	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/20/16 08:40	04/26/16 04:11	7440-22-4	
Vanadium, Dissolved	0.28J	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 04:11	7440-62-2	
Zinc, Dissolved	8.1J	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 04:11	7440-66-6	
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	<0.0047	ug/L	0.047	0.0047	1	04/14/16 13:30	04/15/16 16:20	83-32-9	
Acenaphthylene	<0.0047	ug/L	0.047	0.0047	1	04/14/16 13:30	04/15/16 16:20	208-96-8	
Anthracene	0.011J	ug/L	0.047	0.0038	1	04/14/16 13:30	04/15/16 16:20	120-12-7	
Benzo(a)anthracene	<0.0048	ug/L	0.047	0.0048	1	04/14/16 13:30	04/15/16 16:20	56-55-3	
Benzo(a)pyrene	<0.0042	ug/L	0.047	0.0042	1	04/14/16 13:30	04/15/16 16:20	50-32-8	
Benzo(b)fluoranthene	<0.0050	ug/L	0.047	0.0050	1	04/14/16 13:30	04/15/16 16:20	205-99-2	
Benzo(g,h,i)perylene	0.0049J	ug/L	0.047	0.0033	1	04/14/16 13:30	04/15/16 16:20	191-24-2	
Benzo(k)fluoranthene	<0.0053	ug/L	0.047	0.0053	1	04/14/16 13:30	04/15/16 16:20	207-08-9	
Chrysene	<0.0040	ug/L	0.047	0.0040	1	04/14/16 13:30	04/15/16 16:20	218-01-9	
Dibenz(a,h)anthracene	<0.0052	ug/L	0.047	0.0052	1	04/14/16 13:30	04/15/16 16:20	53-70-3	
Fluoranthene	0.011J	ug/L	0.047	0.0089	1	04/14/16 13:30	04/15/16 16:20	206-44-0	
Fluorene	<0.0038	ug/L	0.047	0.0038	1	04/14/16 13:30	04/15/16 16:20	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0034	ug/L	0.047	0.0034	1	04/14/16 13:30	04/15/16 16:20	193-39-5	
1-Methylnaphthalene	0.0036J	ug/L	0.047	0.0029	1	04/14/16 13:30	04/15/16 16:20	90-12-0	
2-Methylnaphthalene	0.0064J	ug/L	0.047	0.0026	1	04/14/16 13:30	04/15/16 16:20	91-57-6	
Naphthalene	0.017J	ug/L	0.047	0.0043	1	04/14/16 13:30	04/15/16 16:20	91-20-3	
Phenanthrene	<0.0072	ug/L	0.047	0.0072	1	04/14/16 13:30	04/15/16 16:20	85-01-8	
Pyrene	0.015J	ug/L	0.047	0.0073	1	04/14/16 13:30	04/15/16 16:20	129-00-0	
Total PAHs	0.096	ug/L			1	04/14/16 13:30	04/15/16 16:20		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	55	%	25-130		1	04/14/16 13:30	04/15/16 16:20	321-60-8	
Terphenyl-d14 (S)	83	%	13-158		1	04/14/16 13:30	04/15/16 16:20	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		04/15/16 13:03	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/15/16 13:03	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/15/16 13:03	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/15/16 13:03	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/15/16 13:03	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/15/16 13:03	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	115	%	70-130		1		04/15/16 13:03	1868-53-7	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Sample Project No.: 40130733

**Sample: 041216001**      **Lab ID: 40130733001**      Collected: 04/12/16 11:05      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<b>Surrogates</b>									
Toluene-d8 (S)	105	%	70-130		1		04/15/16 13:03	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/15/16 13:03	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>193</b>	mg/L	40.0	20.0	10		04/27/16 03:37	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>367</b>	mg/L	47.0	14.1	2		04/20/16 11:30		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>14.6</b>	mg/L	1.2	0.48	5		04/26/16 09:50		

**Sample: 041216002**      **Lab ID: 40130733002**      Collected: 04/12/16 11:45      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>&lt;1.4</b>	ug/L	2.8	1.4	1		04/20/16 08:34	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 04:24	7429-90-5	
Antimony, Dissolved	<b>0.46J</b>	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 04:24	7440-36-0	
Copper, Dissolved	<b>4.4</b>	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 04:24	7440-50-8	
Iron, Dissolved	<b>42.9J</b>	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 04:24	7439-89-6	
Manganese, Dissolved	<b>0.85J</b>	ug/L	1.0	0.18	1	04/20/16 08:40	04/26/16 04:24	7439-96-5	
Nickel, Dissolved	<b>2.7</b>	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 04:24	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/20/16 08:40	04/26/16 04:24	7440-22-4	
Vanadium, Dissolved	<b>0.18J</b>	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 04:24	7440-62-2	
Zinc, Dissolved	<b>3.4J</b>	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 04:24	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0047</b>	ug/L	0.048	0.0047	1	04/14/16 13:30	04/15/16 16:36	83-32-9	
Acenaphthylene	<b>&lt;0.0047</b>	ug/L	0.048	0.0047	1	04/14/16 13:30	04/15/16 16:36	208-96-8	
Anthracene	<b>0.0076J</b>	ug/L	0.048	0.0038	1	04/14/16 13:30	04/15/16 16:36	120-12-7	
Benzo(a)anthracene	<b>0.0082J</b>	ug/L	0.048	0.0049	1	04/14/16 13:30	04/15/16 16:36	56-55-3	
Benzo(a)pyrene	<b>0.0045J</b>	ug/L	0.048	0.0042	1	04/14/16 13:30	04/15/16 16:36	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0051</b>	ug/L	0.048	0.0051	1	04/14/16 13:30	04/15/16 16:36	205-99-2	
Benzo(g,h,i)perylene	<b>0.0067J</b>	ug/L	0.048	0.0033	1	04/14/16 13:30	04/15/16 16:36	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0054</b>	ug/L	0.048	0.0054	1	04/14/16 13:30	04/15/16 16:36	207-08-9	
Chrysene	<b>0.0053J</b>	ug/L	0.048	0.0040	1	04/14/16 13:30	04/15/16 16:36	218-01-9	B
Dibenz(a,h)anthracene	<b>&lt;0.0053</b>	ug/L	0.048	0.0053	1	04/14/16 13:30	04/15/16 16:36	53-70-3	
Fluoranthene	<b>0.013J</b>	ug/L	0.048	0.0090	1	04/14/16 13:30	04/15/16 16:36	206-44-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Project No.: 40130733

**Sample: 041216002**      **Lab ID: 40130733002**      Collected: 04/12/16 11:45      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Fluorene	<0.0038	ug/L	0.048	0.0038	1	04/14/16 13:30	04/15/16 16:36	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0034	ug/L	0.048	0.0034	1	04/14/16 13:30	04/15/16 16:36	193-39-5	
1-Methylnaphthalene	0.0080J	ug/L	0.048	0.0029	1	04/14/16 13:30	04/15/16 16:36	90-12-0	
2-Methylnaphthalene	0.015J	ug/L	0.048	0.0026	1	04/14/16 13:30	04/15/16 16:36	91-57-6	
Naphthalene	0.039J	ug/L	0.048	0.0043	1	04/14/16 13:30	04/15/16 16:36	91-20-3	
Phenanthrene	0.018J	ug/L	0.048	0.0073	1	04/14/16 13:30	04/15/16 16:36	85-01-8	
Pyrene	0.014J	ug/L	0.048	0.0073	1	04/14/16 13:30	04/15/16 16:36	129-00-0	
Total PAHs	0.16	ug/L			1	04/14/16 13:30	04/15/16 16:36		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	54	%	25-130		1	04/14/16 13:30	04/15/16 16:36	321-60-8	
Terphenyl-d14 (S)	87	%	13-158		1	04/14/16 13:30	04/15/16 16:36	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/15/16 13:25	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/15/16 13:25	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/15/16 13:25	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/15/16 13:25	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/15/16 13:25	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/15/16 13:25	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	119	%	70-130		1		04/15/16 13:25	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		04/15/16 13:25	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/15/16 13:25	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	69.6	mg/L	20.0	10.0	5		04/27/16 03:49	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	287	mg/L	47.0	14.1	2		04/20/16 11:31		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	4.1	mg/L	0.25	0.095	1		04/26/16 08:41		

**Sample: 041216003**      **Lab ID: 40130733003**      Collected: 04/12/16 12:20      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/20/16 08:42	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 04:31	7429-90-5	
Antimony, Dissolved	2.1	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 04:31	7440-36-0	
Copper, Dissolved	4.6	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 04:31	7440-50-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

Sample: 041216003 Lab ID: 40130733003 Collected: 04/12/16 12:20 Received: 04/13/16 12:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Iron, Dissolved	80.6J	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 04:31	7439-89-6	
Manganese, Dissolved	5.6	ug/L	1.0	0.18	1	04/20/16 08:40	04/26/16 04:31	7439-96-5	
Nickel, Dissolved	1.4	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 04:31	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/20/16 08:40	04/26/16 04:31	7440-22-4	
Vanadium, Dissolved	2.7	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 04:31	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 04:31	7440-66-6	
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.0079J	ug/L	0.047	0.0046	1	04/14/16 13:30	04/15/16 16:53	83-32-9	
Acenaphthylene	0.011J	ug/L	0.047	0.0046	1	04/14/16 13:30	04/15/16 16:53	208-96-8	
Anthracene	0.025J	ug/L	0.047	0.0038	1	04/14/16 13:30	04/15/16 16:53	120-12-7	
Benzo(a)anthracene	0.014J	ug/L	0.047	0.0048	1	04/14/16 13:30	04/15/16 16:53	56-55-3	
Benzo(a)pyrene	0.011J	ug/L	0.047	0.0041	1	04/14/16 13:30	04/15/16 16:53	50-32-8	
Benzo(b)fluoranthene	0.013J	ug/L	0.047	0.0050	1	04/14/16 13:30	04/15/16 16:53	205-99-2	
Benzo(g,h,i)perylene	0.0094J	ug/L	0.047	0.0033	1	04/14/16 13:30	04/15/16 16:53	191-24-2	
Benzo(k)fluoranthene	<0.0053	ug/L	0.047	0.0053	1	04/14/16 13:30	04/15/16 16:53	207-08-9	
Chrysene	0.013J	ug/L	0.047	0.0040	1	04/14/16 13:30	04/15/16 16:53	218-01-9	B
Dibenz(a,h)anthracene	<0.0052	ug/L	0.047	0.0052	1	04/14/16 13:30	04/15/16 16:53	53-70-3	
Fluoranthene	0.025J	ug/L	0.047	0.0088	1	04/14/16 13:30	04/15/16 16:53	206-44-0	
Fluorene	0.0057J	ug/L	0.047	0.0038	1	04/14/16 13:30	04/15/16 16:53	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0057J	ug/L	0.047	0.0033	1	04/14/16 13:30	04/15/16 16:53	193-39-5	
1-Methylnaphthalene	0.013J	ug/L	0.047	0.0029	1	04/14/16 13:30	04/15/16 16:53	90-12-0	
2-Methylnaphthalene	0.015J	ug/L	0.047	0.0026	1	04/14/16 13:30	04/15/16 16:53	91-57-6	
Naphthalene	0.031J	ug/L	0.047	0.0042	1	04/14/16 13:30	04/15/16 16:53	91-20-3	
Phenanthrene	0.023J	ug/L	0.047	0.0072	1	04/14/16 13:30	04/15/16 16:53	85-01-8	
Pyrene	0.026J	ug/L	0.047	0.0072	1	04/14/16 13:30	04/15/16 16:53	129-00-0	
Total PAHs	0.25	ug/L			1	04/14/16 13:30	04/15/16 16:53		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	53	%	25-130		1	04/14/16 13:30	04/15/16 16:53	321-60-8	
Terphenyl-d14 (S)	78	%	13-158		1	04/14/16 13:30	04/15/16 16:53	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	0.85J	ug/L	1.0	0.50	1		04/15/16 13:47	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/15/16 13:47	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/15/16 13:47	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/15/16 13:47	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/15/16 13:47	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/15/16 13:47	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	110	%	70-130		1		04/15/16 13:47	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		04/15/16 13:47	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/15/16 13:47	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	23.8	mg/L	4.0	2.0	1		04/26/16 11:49	14808-79-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Project No.: 40130733

**Sample: 041216003**      **Lab ID: 40130733003**      Collected: 04/12/16 12:20      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>314</b>	mg/L	47.0	14.1	2		04/20/16 11:31		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>0.61</b>	mg/L	0.25	0.095	1		04/26/16 08:42		

**Sample: 041216004**      **Lab ID: 40130733004**      Collected: 04/12/16 13:10      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>167</b>	ug/L	2.8	1.4	1		04/20/16 08:48	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 04:51	7429-90-5	
Antimony, Dissolved	<b>0.48J</b>	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 04:51	7440-36-0	
Copper, Dissolved	<b>4.0</b>	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 04:51	7440-50-8	
Iron, Dissolved	<b>383</b>	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 04:51	7439-89-6	
Manganese, Dissolved	<b>743</b>	ug/L	1.0	0.18	1	04/20/16 08:40	04/26/16 04:51	7439-96-5	
Nickel, Dissolved	<b>4.0</b>	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 04:51	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/20/16 08:40	04/26/16 04:51	7440-22-4	
Vanadium, Dissolved	<b>0.37J</b>	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 04:51	7440-62-2	
Zinc, Dissolved	<b>3.5J</b>	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 04:51	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>0.0087J</b>	ug/L	0.050	0.0050	1	04/14/16 13:30	04/15/16 17:09	83-32-9	
Acenaphthylene	<b>&lt;0.0049</b>	ug/L	0.050	0.0049	1	04/14/16 13:30	04/15/16 17:09	208-96-8	
Anthracene	<b>0.026J</b>	ug/L	0.050	0.0040	1	04/14/16 13:30	04/15/16 17:09	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0051</b>	ug/L	0.050	0.0051	1	04/14/16 13:30	04/15/16 17:09	56-55-3	
Benzo(a)pyrene	<b>&lt;0.0044</b>	ug/L	0.050	0.0044	1	04/14/16 13:30	04/15/16 17:09	50-32-8	
Benzo(b)fluoranthene	<b>0.0058J</b>	ug/L	0.050	0.0053	1	04/14/16 13:30	04/15/16 17:09	205-99-2	
Benzo(g,h,i)perylene	<b>0.0054J</b>	ug/L	0.050	0.0035	1	04/14/16 13:30	04/15/16 17:09	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0056</b>	ug/L	0.050	0.0056	1	04/14/16 13:30	04/15/16 17:09	207-08-9	
Chrysene	<b>0.0054J</b>	ug/L	0.050	0.0042	1	04/14/16 13:30	04/15/16 17:09	218-01-9	B
Dibenz(a,h)anthracene	<b>&lt;0.0056</b>	ug/L	0.050	0.0056	1	04/14/16 13:30	04/15/16 17:09	53-70-3	
Fluoranthene	<b>0.012J</b>	ug/L	0.050	0.0094	1	04/14/16 13:30	04/15/16 17:09	206-44-0	
Fluorene	<b>0.0043J</b>	ug/L	0.050	0.0040	1	04/14/16 13:30	04/15/16 17:09	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.0036</b>	ug/L	0.050	0.0036	1	04/14/16 13:30	04/15/16 17:09	193-39-5	
1-Methylnaphthalene	<b>0.0082J</b>	ug/L	0.050	0.0031	1	04/14/16 13:30	04/15/16 17:09	90-12-0	
2-Methylnaphthalene	<b>0.013J</b>	ug/L	0.050	0.0028	1	04/14/16 13:30	04/15/16 17:09	91-57-6	
Naphthalene	<b>0.025J</b>	ug/L	0.050	0.0045	1	04/14/16 13:30	04/15/16 17:09	91-20-3	
Phenanthrene	<b>0.019J</b>	ug/L	0.050	0.0077	1	04/14/16 13:30	04/15/16 17:09	85-01-8	
Pyrene	<b>0.023J</b>	ug/L	0.050	0.0077	1	04/14/16 13:30	04/15/16 17:09	129-00-0	
Total PAHs	<b>0.17</b>	ug/L			1	04/14/16 13:30	04/15/16 17:09		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Sample Project No.: 40130733

**Sample: 041216004**      **Lab ID: 40130733004**      Collected: 04/12/16 13:10      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	54	%	25-130		1	04/14/16 13:30	04/15/16 17:09	321-60-8	
Terphenyl-d14 (S)	93	%	13-158		1	04/14/16 13:30	04/15/16 17:09	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/15/16 14:09	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/15/16 14:09	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/15/16 14:09	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/15/16 14:09	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/15/16 14:09	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/15/16 14:09	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	112	%	70-130		1		04/15/16 14:09	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		04/15/16 14:09	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/15/16 14:09	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	158	mg/L	20.0	10.0	5		04/26/16 12:25	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	487	mg/L	47.0	14.1	2		04/20/16 11:32		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	3.4	mg/L	0.25	0.095	1		04/26/16 08:43		

**Sample: 041216005**      **Lab ID: 40130733005**      Collected: 04/12/16 13:15      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	167	ug/L	2.8	1.4	1		04/20/16 08:55	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 04:57	7429-90-5	
Antimony, Dissolved	0.52J	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 04:57	7440-36-0	
Copper, Dissolved	3.9	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 04:57	7440-50-8	
Iron, Dissolved	373	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 04:57	7439-89-6	
Manganese, Dissolved	818	ug/L	1.0	0.18	1	04/20/16 08:40	04/26/16 04:57	7439-96-5	
Nickel, Dissolved	2.4	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 04:57	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/20/16 08:40	04/26/16 04:57	7440-22-4	
Vanadium, Dissolved	0.34J	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 04:57	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 04:57	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

**Sample: 041216005**      **Lab ID: 40130733005**      Collected: 04/12/16 13:15      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510							
Acenaphthene	<0.0050	ug/L	0.050	0.0050	1	04/14/16 13:30	04/15/16 17:26	83-32-9	
Acenaphthylene	<0.0049	ug/L	0.050	0.0049	1	04/14/16 13:30	04/15/16 17:26	208-96-8	
Anthracene	0.026J	ug/L	0.050	0.0040	1	04/14/16 13:30	04/15/16 17:26	120-12-7	
Benzo(a)anthracene	<0.0051	ug/L	0.050	0.0051	1	04/14/16 13:30	04/15/16 17:26	56-55-3	
Benzo(a)pyrene	<0.0044	ug/L	0.050	0.0044	1	04/14/16 13:30	04/15/16 17:26	50-32-8	
Benzo(b)fluoranthene	0.0061J	ug/L	0.050	0.0053	1	04/14/16 13:30	04/15/16 17:26	205-99-2	
Benzo(g,h,i)perylene	0.0077J	ug/L	0.050	0.0035	1	04/14/16 13:30	04/15/16 17:26	191-24-2	
Benzo(k)fluoranthene	<0.0056	ug/L	0.050	0.0056	1	04/14/16 13:30	04/15/16 17:26	207-08-9	
Chrysene	0.0044J	ug/L	0.050	0.0042	1	04/14/16 13:30	04/15/16 17:26	218-01-9	B
Dibenz(a,h)anthracene	<0.0056	ug/L	0.050	0.0056	1	04/14/16 13:30	04/15/16 17:26	53-70-3	
Fluoranthene	<0.0094	ug/L	0.050	0.0094	1	04/14/16 13:30	04/15/16 17:26	206-44-0	
Fluorene	<0.0040	ug/L	0.050	0.0040	1	04/14/16 13:30	04/15/16 17:26	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0044J	ug/L	0.050	0.0036	1	04/14/16 13:30	04/15/16 17:26	193-39-5	
1-Methylnaphthalene	0.0031J	ug/L	0.050	0.0031	1	04/14/16 13:30	04/15/16 17:26	90-12-0	
2-Methylnaphthalene	0.0054J	ug/L	0.050	0.0028	1	04/14/16 13:30	04/15/16 17:26	91-57-6	
Naphthalene	0.025J	ug/L	0.050	0.0045	1	04/14/16 13:30	04/15/16 17:26	91-20-3	
Phenanthrene	<0.0077	ug/L	0.050	0.0077	1	04/14/16 13:30	04/15/16 17:26	85-01-8	
Pyrene	0.018J	ug/L	0.050	0.0077	1	04/14/16 13:30	04/15/16 17:26	129-00-0	
Total PAHs	0.13	ug/L			1	04/14/16 13:30	04/15/16 17:26		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	52	%	25-130		1	04/14/16 13:30	04/15/16 17:26	321-60-8	
Terphenyl-d14 (S)	82	%	13-158		1	04/14/16 13:30	04/15/16 17:26	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		04/15/16 14:31	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/15/16 14:31	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/15/16 14:31	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/15/16 14:31	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/15/16 14:31	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/15/16 14:31	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	112	%	70-130		1		04/15/16 14:31	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		04/15/16 14:31	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/15/16 14:31	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	148	mg/L	20.0	10.0	5		04/26/16 12:37	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	470	mg/L	47.0	14.1	2		04/20/16 11:33		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	3.5	mg/L	0.25	0.095	1		04/26/16 08:44		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

**Sample: 041216006**      **Lab ID: 40130733006**      Collected: 04/12/16 14:41      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Methane	<b>1760</b>	ug/L	28.0	13.7	10		04/20/16 11:00	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 05:04	7429-90-5	
Antimony, Dissolved	<b>0.96J</b>	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 05:04	7440-36-0	
Copper, Dissolved	<b>4.9</b>	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 05:04	7440-50-8	
Iron, Dissolved	<b>451</b>	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 05:04	7439-89-6	
Manganese, Dissolved	<b>174</b>	ug/L	1.0	0.18	1	04/20/16 08:40	04/26/16 05:04	7439-96-5	
Nickel, Dissolved	<b>4.0</b>	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 05:04	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/20/16 08:40	04/26/16 05:04	7440-22-4	
Vanadium, Dissolved	<b>1.1</b>	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 05:04	7440-62-2	
Zinc, Dissolved	<b>5.4J</b>	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 05:04	7440-66-6	
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	<b>0.0088J</b>	ug/L	0.053	0.0052	1	04/14/16 13:30	04/15/16 17:42	83-32-9	
Acenaphthylene	<b>0.0071J</b>	ug/L	0.053	0.0052	1	04/14/16 13:30	04/15/16 17:42	208-96-8	
Anthracene	<b>0.022J</b>	ug/L	0.053	0.0043	1	04/14/16 13:30	04/15/16 17:42	120-12-7	
Benzo(a)anthracene	<b>0.016J</b>	ug/L	0.053	0.0054	1	04/14/16 13:30	04/15/16 17:42	56-55-3	
Benzo(a)pyrene	<b>0.0054J</b>	ug/L	0.053	0.0047	1	04/14/16 13:30	04/15/16 17:42	50-32-8	
Benzo(b)fluoranthene	<b>0.019J</b>	ug/L	0.053	0.0056	1	04/14/16 13:30	04/15/16 17:42	205-99-2	
Benzo(g,h,i)perylene	<b>0.012J</b>	ug/L	0.053	0.0037	1	04/14/16 13:30	04/15/16 17:42	191-24-2	
Benzo(k)fluoranthene	<b>0.0088J</b>	ug/L	0.053	0.0059	1	04/14/16 13:30	04/15/16 17:42	207-08-9	
Chrysene	<b>0.018J</b>	ug/L	0.053	0.0045	1	04/14/16 13:30	04/15/16 17:42	218-01-9	B
Dibenz(a,h)anthracene	<b>&lt;0.0059</b>	ug/L	0.053	0.0059	1	04/14/16 13:30	04/15/16 17:42	53-70-3	
Fluoranthene	<b>0.022J</b>	ug/L	0.053	0.0099	1	04/14/16 13:30	04/15/16 17:42	206-44-0	
Fluorene	<b>0.0071J</b>	ug/L	0.053	0.0043	1	04/14/16 13:30	04/15/16 17:42	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.0088J</b>	ug/L	0.053	0.0038	1	04/14/16 13:30	04/15/16 17:42	193-39-5	
1-Methylnaphthalene	<b>0.0045J</b>	ug/L	0.053	0.0033	1	04/14/16 13:30	04/15/16 17:42	90-12-0	
2-Methylnaphthalene	<b>0.0061J</b>	ug/L	0.053	0.0029	1	04/14/16 13:30	04/15/16 17:42	91-57-6	
Naphthalene	<b>0.021J</b>	ug/L	0.053	0.0048	1	04/14/16 13:30	04/15/16 17:42	91-20-3	
Phenanthrene	<b>0.015J</b>	ug/L	0.053	0.0081	1	04/14/16 13:30	04/15/16 17:42	85-01-8	
Pyrene	<b>0.023J</b>	ug/L	0.053	0.0081	1	04/14/16 13:30	04/15/16 17:42	129-00-0	
Total PAHs	<b>0.23</b>	ug/L			1	04/14/16 13:30	04/15/16 17:42		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	51	%	25-130		1	04/14/16 13:30	04/15/16 17:42	321-60-8	
Terphenyl-d14 (S)	84	%	13-158		1	04/14/16 13:30	04/15/16 17:42	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/15/16 14:53	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/15/16 14:53	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/15/16 14:53	108-88-3	
Xylene (Total)	<b>&lt;1.5</b>	ug/L	3.0	1.5	1		04/15/16 14:53	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/15/16 14:53	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/15/16 14:53	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	115	%	70-130		1		04/15/16 14:53	1868-53-7	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Project No.: 40130733

**Sample: 041216006**      **Lab ID: 40130733006**      Collected: 04/12/16 14:41      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	105	%	70-130		1		04/15/16 14:53	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/15/16 14:53	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>69.1</b>	mg/L	20.0	10.0	5		04/26/16 12:49	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>308</b>	mg/L	47.0	14.1	2		04/20/16 11:33		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>3.6</b>	mg/L	0.25	0.095	1		04/26/16 08:45		

**Sample: 041216007**      **Lab ID: 40130733007**      Collected: 04/12/16 15:34      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>&lt;1.4</b>	ug/L	2.8	1.4	1		04/20/16 09:09	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 05:11	7429-90-5	
Antimony, Dissolved	<b>&lt;0.073</b>	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 05:11	7440-36-0	
Copper, Dissolved	<b>2.4</b>	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 05:11	7440-50-8	
Iron, Dissolved	<b>11.3J</b>	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 05:11	7439-89-6	
Manganese, Dissolved	<b>283</b>	ug/L	1.0	0.18	1	04/20/16 08:40	04/26/16 05:11	7439-96-5	
Nickel, Dissolved	<b>2.4</b>	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 05:11	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/20/16 08:40	04/26/16 05:11	7440-22-4	
Vanadium, Dissolved	<b>&lt;0.15</b>	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 05:11	7440-62-2	
Zinc, Dissolved	<b>&lt;3.1</b>	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 05:11	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0048</b>	ug/L	0.049	0.0048	1	04/15/16 08:20	04/15/16 19:21	83-32-9	
Acenaphthylene	<b>&lt;0.0048</b>	ug/L	0.049	0.0048	1	04/15/16 08:20	04/15/16 19:21	208-96-8	
Anthracene	<b>&lt;0.0039</b>	ug/L	0.049	0.0039	1	04/15/16 08:20	04/15/16 19:21	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0050</b>	ug/L	0.049	0.0050	1	04/15/16 08:20	04/15/16 19:21	56-55-3	
Benzo(a)pyrene	<b>0.0049J</b>	ug/L	0.049	0.0043	1	04/15/16 08:20	04/15/16 19:21	50-32-8	
Benzo(b)fluoranthene	<b>0.0096J</b>	ug/L	0.049	0.0052	1	04/15/16 08:20	04/15/16 19:21	205-99-2	
Benzo(g,h,i)perylene	<b>0.010J</b>	ug/L	0.049	0.0034	1	04/15/16 08:20	04/15/16 19:21	191-24-2	B
Benzo(k)fluoranthene	<b>0.0070J</b>	ug/L	0.049	0.0055	1	04/15/16 08:20	04/15/16 19:21	207-08-9	
Chrysene	<b>0.0093J</b>	ug/L	0.049	0.0041	1	04/15/16 08:20	04/15/16 19:21	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0054</b>	ug/L	0.049	0.0054	1	04/15/16 08:20	04/15/16 19:21	53-70-3	
Fluoranthene	<b>&lt;0.0091</b>	ug/L	0.049	0.0091	1	04/15/16 08:20	04/15/16 19:21	206-44-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

**Sample: 041216007**      **Lab ID: 40130733007**      Collected: 04/12/16 15:34      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Fluorene	<0.0039	ug/L	0.049	0.0039	1	04/15/16 08:20	04/15/16 19:21	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0078J	ug/L	0.049	0.0035	1	04/15/16 08:20	04/15/16 19:21	193-39-5	
1-Methylnaphthalene	0.0036J	ug/L	0.049	0.0030	1	04/15/16 08:20	04/15/16 19:21	90-12-0	
2-Methylnaphthalene	0.0069J	ug/L	0.049	0.0027	1	04/15/16 08:20	04/15/16 19:21	91-57-6	
Naphthalene	0.015J	ug/L	0.049	0.0044	1	04/15/16 08:20	04/15/16 19:21	91-20-3	B
Phenanthrene	0.0082J	ug/L	0.049	0.0074	1	04/15/16 08:20	04/15/16 19:21	85-01-8	
Pyrene	0.012J	ug/L	0.049	0.0075	1	04/15/16 08:20	04/15/16 19:21	129-00-0	
Total PAHs	0.11	ug/L			1	04/15/16 08:20	04/15/16 19:21		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	49	%	25-130		1	04/15/16 08:20	04/15/16 19:21	321-60-8	
Terphenyl-d14 (S)	84	%	13-158		1	04/15/16 08:20	04/15/16 19:21	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/15/16 15:15	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/15/16 15:15	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/15/16 15:15	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/15/16 15:15	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/15/16 15:15	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/15/16 15:15	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	113	%	70-130		1		04/15/16 15:15	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		04/15/16 15:15	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/15/16 15:15	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	97.9	mg/L	20.0	10.0	5		04/27/16 04:01	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	276	mg/L	47.0	14.1	2		04/20/16 11:34		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	2.8	mg/L	0.25	0.095	1		04/26/16 08:46		

**Sample: 041216008**      **Lab ID: 40130733008**      Collected: 04/12/16 16:51      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	6.5	ug/L	2.8	1.4	1		04/20/16 09:16	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 03:44	7429-90-5	
Antimony, Dissolved	0.23J	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 03:44	7440-36-0	
Copper, Dissolved	5.6	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 03:44	7440-50-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

**Sample: 041216008**      **Lab ID: 40130733008**      Collected: 04/12/16 16:51      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Iron, Dissolved	1360	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 03:44	7439-89-6	
Manganese, Dissolved	965	ug/L	2.0	0.36	2	04/20/16 08:40	04/28/16 15:57	7439-96-5	
Nickel, Dissolved	22.4	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 03:44	7440-02-0	
Silver, Dissolved	<0.033	ug/L	1.0	0.033	2	04/20/16 08:40	04/26/16 15:30	7440-22-4	D3
Vanadium, Dissolved	0.45J	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 03:44	7440-62-2	
Zinc, Dissolved	279	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 03:44	7440-66-6	
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<0.0050	ug/L	0.050	0.0050	1	04/15/16 08:20	04/15/16 17:59	83-32-9	
Acenaphthylene	<0.0049	ug/L	0.050	0.0049	1	04/15/16 08:20	04/15/16 17:59	208-96-8	
Anthracene	<0.0040	ug/L	0.050	0.0040	1	04/15/16 08:20	04/15/16 17:59	120-12-7	
Benzo(a)anthracene	<0.0051	ug/L	0.050	0.0051	1	04/15/16 08:20	04/15/16 17:59	56-55-3	
Benzo(a)pyrene	<0.0044	ug/L	0.050	0.0044	1	04/15/16 08:20	04/15/16 17:59	50-32-8	
Benzo(b)fluoranthene	<0.0053	ug/L	0.050	0.0053	1	04/15/16 08:20	04/15/16 17:59	205-99-2	
Benzo(g,h,i)perylene	0.0040J	ug/L	0.050	0.0035	1	04/15/16 08:20	04/15/16 17:59	191-24-2	
Benzo(k)fluoranthene	<0.0056	ug/L	0.050	0.0056	1	04/15/16 08:20	04/15/16 17:59	207-08-9	
Chrysene	<0.0042	ug/L	0.050	0.0042	1	04/15/16 08:20	04/15/16 17:59	218-01-9	
Dibenz(a,h)anthracene	<0.0056	ug/L	0.050	0.0056	1	04/15/16 08:20	04/15/16 17:59	53-70-3	
Fluoranthene	<0.0094	ug/L	0.050	0.0094	1	04/15/16 08:20	04/15/16 17:59	206-44-0	
Fluorene	<0.0040	ug/L	0.050	0.0040	1	04/15/16 08:20	04/15/16 17:59	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0036	ug/L	0.050	0.0036	1	04/15/16 08:20	04/15/16 17:59	193-39-5	
1-Methylnaphthalene	0.0044J	ug/L	0.050	0.0031	1	04/15/16 08:20	04/15/16 17:59	90-12-0	
2-Methylnaphthalene	0.0066J	ug/L	0.050	0.0028	1	04/15/16 08:20	04/15/16 17:59	91-57-6	
Naphthalene	0.014J	ug/L	0.050	0.0045	1	04/15/16 08:20	04/15/16 17:59	91-20-3	B
Phenanthrene	<0.0077	ug/L	0.050	0.0077	1	04/15/16 08:20	04/15/16 17:59	85-01-8	
Pyrene	0.0098J	ug/L	0.050	0.0077	1	04/15/16 08:20	04/15/16 17:59	129-00-0	
Total PAHs	0.064	ug/L			1	04/15/16 08:20	04/15/16 17:59		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	25-130		1	04/15/16 08:20	04/15/16 17:59	321-60-8	
Terphenyl-d14 (S)	89	%	13-158		1	04/15/16 08:20	04/15/16 17:59	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/15/16 15:37	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/15/16 15:37	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/15/16 15:37	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/15/16 15:37	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/15/16 15:37	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/15/16 15:37	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	117	%	70-130		1		04/15/16 15:37	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		04/15/16 15:37	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/15/16 15:37	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	723	mg/L	200	100	50		04/27/16 10:03	14808-79-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

**Sample: 041216008**      **Lab ID: 40130733008**      Collected: 04/12/16 16:51      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>648</b>	mg/L	117	35.2	5		04/20/16 11:35		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>0.54</b>	mg/L	0.25	0.095	1		04/26/16 08:49		

**Sample: 041216009**      **Lab ID: 40130733009**      Collected: 04/12/16 17:59      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>&lt;1.4</b>	ug/L	2.8	1.4	1		04/20/16 09:23	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 05:17	7429-90-5	
Antimony, Dissolved	<b>0.78J</b>	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 05:17	7440-36-0	
Copper, Dissolved	<b>5.9</b>	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 05:17	7440-50-8	
Iron, Dissolved	<b>37.4J</b>	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 05:17	7439-89-6	
Manganese, Dissolved	<b>6.3</b>	ug/L	1.0	0.18	1	04/20/16 08:40	04/26/16 05:17	7439-96-5	
Nickel, Dissolved	<b>3.8</b>	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 05:17	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/20/16 08:40	04/26/16 05:17	7440-22-4	
Vanadium, Dissolved	<b>1.1</b>	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 05:17	7440-62-2	
Zinc, Dissolved	<b>44.3</b>	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 05:17	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0050</b>	ug/L	0.050	0.0050	1	04/15/16 08:20	04/15/16 19:38	83-32-9	
Acenaphthylene	<b>0.0050J</b>	ug/L	0.050	0.0049	1	04/15/16 08:20	04/15/16 19:38	208-96-8	
Anthracene	<b>0.012J</b>	ug/L	0.050	0.0040	1	04/15/16 08:20	04/15/16 19:38	120-12-7	
Benzo(a)anthracene	<b>0.013J</b>	ug/L	0.050	0.0051	1	04/15/16 08:20	04/15/16 19:38	56-55-3	
Benzo(a)pyrene	<b>0.0075J</b>	ug/L	0.050	0.0044	1	04/15/16 08:20	04/15/16 19:38	50-32-8	
Benzo(b)fluoranthene	<b>0.010J</b>	ug/L	0.050	0.0053	1	04/15/16 08:20	04/15/16 19:38	205-99-2	
Benzo(g,h,i)perylene	<b>0.0091J</b>	ug/L	0.050	0.0035	1	04/15/16 08:20	04/15/16 19:38	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0056</b>	ug/L	0.050	0.0056	1	04/15/16 08:20	04/15/16 19:38	207-08-9	
Chrysene	<b>0.011J</b>	ug/L	0.050	0.0042	1	04/15/16 08:20	04/15/16 19:38	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0056</b>	ug/L	0.050	0.0056	1	04/15/16 08:20	04/15/16 19:38	53-70-3	
Fluoranthene	<b>0.016J</b>	ug/L	0.050	0.0094	1	04/15/16 08:20	04/15/16 19:38	206-44-0	
Fluorene	<b>&lt;0.0040</b>	ug/L	0.050	0.0040	1	04/15/16 08:20	04/15/16 19:38	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.0052J</b>	ug/L	0.050	0.0036	1	04/15/16 08:20	04/15/16 19:38	193-39-5	
1-Methylnaphthalene	<b>&lt;0.0031</b>	ug/L	0.050	0.0031	1	04/15/16 08:20	04/15/16 19:38	90-12-0	
2-Methylnaphthalene	<b>0.0032J</b>	ug/L	0.050	0.0028	1	04/15/16 08:20	04/15/16 19:38	91-57-6	
Naphthalene	<b>0.0095J</b>	ug/L	0.050	0.0045	1	04/15/16 08:20	04/15/16 19:38	91-20-3	B
Phenanthrene	<b>0.011J</b>	ug/L	0.050	0.0077	1	04/15/16 08:20	04/15/16 19:38	85-01-8	
Pyrene	<b>0.022J</b>	ug/L	0.050	0.0077	1	04/15/16 08:20	04/15/16 19:38	129-00-0	
Total PAHs	<b>0.15</b>	ug/L			1	04/15/16 08:20	04/15/16 19:38		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Sample Project No.: 40130733

**Sample: 041216009**      **Lab ID: 40130733009**      Collected: 04/12/16 17:59      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	50	%	25-130		1	04/15/16 08:20	04/15/16 19:38	321-60-8	
Terphenyl-d14 (S)	84	%	13-158		1	04/15/16 08:20	04/15/16 19:38	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/15/16 15:59	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/15/16 15:59	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/15/16 15:59	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/15/16 15:59	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/15/16 15:59	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/15/16 15:59	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	115	%	70-130		1		04/15/16 15:59	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		04/15/16 15:59	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		04/15/16 15:59	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	95.6	mg/L	20.0	10.0	5		04/27/16 04:13	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	412	mg/L	47.0	14.1	2		04/20/16 12:38		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	6.2	mg/L	0.25	0.095	1		04/26/16 08:52		

**Sample: 041216010**      **Lab ID: 40130733010**      Collected: 04/12/16 18:04      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/20/16 09:30	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 05:24	7429-90-5	
Antimony, Dissolved	0.78J	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 05:24	7440-36-0	
Copper, Dissolved	5.1	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 05:24	7440-50-8	
Iron, Dissolved	40.7J	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 05:24	7439-89-6	
Manganese, Dissolved	7.4	ug/L	1.0	0.18	1	04/20/16 08:40	04/26/16 05:24	7439-96-5	
Nickel, Dissolved	1.9	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 05:24	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/20/16 08:40	04/26/16 05:24	7440-22-4	
Vanadium, Dissolved	0.96J	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 05:24	7440-62-2	
Zinc, Dissolved	44.6	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 05:24	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

**Sample: 041216010**      **Lab ID: 40130733010**      Collected: 04/12/16 18:04      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510							
Acenaphthene	<0.0050	ug/L	0.050	0.0050	1	04/15/16 08:20	04/15/16 19:54	83-32-9	
Acenaphthylene	<0.0049	ug/L	0.050	0.0049	1	04/15/16 08:20	04/15/16 19:54	208-96-8	
Anthracene	0.014J	ug/L	0.050	0.0040	1	04/15/16 08:20	04/15/16 19:54	120-12-7	
Benzo(a)anthracene	0.016J	ug/L	0.050	0.0051	1	04/15/16 08:20	04/15/16 19:54	56-55-3	
Benzo(a)pyrene	0.011J	ug/L	0.050	0.0044	1	04/15/16 08:20	04/15/16 19:54	50-32-8	
Benzo(b)fluoranthene	0.015J	ug/L	0.050	0.0053	1	04/15/16 08:20	04/15/16 19:54	205-99-2	
Benzo(g,h,i)perylene	0.013J	ug/L	0.050	0.0035	1	04/15/16 08:20	04/15/16 19:54	191-24-2	
Benzo(k)fluoranthene	0.0061J	ug/L	0.050	0.0056	1	04/15/16 08:20	04/15/16 19:54	207-08-9	
Chrysene	0.016J	ug/L	0.050	0.0042	1	04/15/16 08:20	04/15/16 19:54	218-01-9	
Dibenz(a,h)anthracene	<0.0056	ug/L	0.050	0.0056	1	04/15/16 08:20	04/15/16 19:54	53-70-3	
Fluoranthene	0.028J	ug/L	0.050	0.0094	1	04/15/16 08:20	04/15/16 19:54	206-44-0	
Fluorene	<0.0040	ug/L	0.050	0.0040	1	04/15/16 08:20	04/15/16 19:54	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0077J	ug/L	0.050	0.0036	1	04/15/16 08:20	04/15/16 19:54	193-39-5	
1-Methylnaphthalene	0.0032J	ug/L	0.050	0.0031	1	04/15/16 08:20	04/15/16 19:54	90-12-0	
2-Methylnaphthalene	0.0044J	ug/L	0.050	0.0028	1	04/15/16 08:20	04/15/16 19:54	91-57-6	
Naphthalene	0.011J	ug/L	0.050	0.0045	1	04/15/16 08:20	04/15/16 19:54	91-20-3	B
Phenanthrene	0.024J	ug/L	0.050	0.0077	1	04/15/16 08:20	04/15/16 19:54	85-01-8	
Pyrene	0.027J	ug/L	0.050	0.0077	1	04/15/16 08:20	04/15/16 19:54	129-00-0	
Total PAHs	0.21	ug/L			1	04/15/16 08:20	04/15/16 19:54		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	53	%	25-130		1	04/15/16 08:20	04/15/16 19:54	321-60-8	
Terphenyl-d14 (S)	85	%	13-158		1	04/15/16 08:20	04/15/16 19:54	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		04/15/16 16:21	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/15/16 16:21	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/15/16 16:21	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/15/16 16:21	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/15/16 16:21	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/15/16 16:21	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	114	%	70-130		1		04/15/16 16:21	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		04/15/16 16:21	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/15/16 16:21	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	95.8	mg/L	20.0	10.0	5		04/27/16 04:25	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	424	mg/L	47.0	14.1	2		04/20/16 12:38		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	6.3	mg/L	0.25	0.095	1		04/26/16 08:52		

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## ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

**Sample: 041316012**      **Lab ID: 40130733012**      Collected: 04/13/16 07:00      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>5500</b>	ug/L	140	68.5	50		04/20/16 11:14	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 05:37	7429-90-5	
Antimony, Dissolved	<b>&lt;0.073</b>	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 05:37	7440-36-0	
Copper, Dissolved	<b>1.5</b>	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 05:37	7440-50-8	
Iron, Dissolved	<b>41600</b>	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 05:37	7439-89-6	
Manganese, Dissolved	<b>529</b>	ug/L	1.0	0.18	1	04/20/16 08:40	04/26/16 05:37	7439-96-5	
Nickel, Dissolved	<b>1.8</b>	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 05:37	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/20/16 08:40	04/26/16 05:37	7440-22-4	
Vanadium, Dissolved	<b>0.20J</b>	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 05:37	7440-62-2	
Zinc, Dissolved	<b>4.3J</b>	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 05:37	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>1.5</b>	ug/L	0.049	0.0049	1	04/15/16 08:20	04/18/16 17:29	83-32-9	
Acenaphthylene	<b>0.049</b>	ug/L	0.049	0.0048	1	04/15/16 08:20	04/18/16 17:29	208-96-8	
Anthracene	<b>0.046J</b>	ug/L	0.049	0.0040	1	04/15/16 08:20	04/18/16 17:29	120-12-7	
Benzo(a)anthracene	<b>0.022J</b>	ug/L	0.049	0.0050	1	04/15/16 08:20	04/18/16 17:29	56-55-3	
Benzo(a)pyrene	<b>0.0075J</b>	ug/L	0.049	0.0043	1	04/15/16 08:20	04/18/16 17:29	50-32-8	
Benzo(b)fluoranthene	<b>0.017J</b>	ug/L	0.049	0.0052	1	04/15/16 08:20	04/18/16 17:29	205-99-2	
Benzo(g,h,i)perylene	<b>0.0077J</b>	ug/L	0.049	0.0034	1	04/15/16 08:20	04/18/16 17:29	191-24-2	B
Benzo(k)fluoranthene	<b>0.0098J</b>	ug/L	0.049	0.0055	1	04/15/16 08:20	04/18/16 17:29	207-08-9	
Chrysene	<b>0.041J</b>	ug/L	0.049	0.0042	1	04/15/16 08:20	04/18/16 17:29	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0055</b>	ug/L	0.049	0.0055	1	04/15/16 08:20	04/18/16 17:29	53-70-3	
Fluoranthene	<b>0.18</b>	ug/L	0.049	0.0092	1	04/15/16 08:20	04/18/16 17:29	206-44-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

**Sample: 041316012**      **Lab ID: 40130733012**      Collected: 04/13/16 07:00      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Fluorene	0.30	ug/L	0.049	0.0040	1	04/15/16 08:20	04/18/16 17:29	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0053J	ug/L	0.049	0.0035	1	04/15/16 08:20	04/18/16 17:29	193-39-5	
1-Methylnaphthalene	0.18	ug/L	0.049	0.0030	1	04/15/16 08:20	04/18/16 17:29	90-12-0	
2-Methylnaphthalene	0.013J	ug/L	0.049	0.0027	1	04/15/16 08:20	04/18/16 17:29	91-57-6	
Naphthalene	0.11	ug/L	0.049	0.0044	1	04/15/16 08:20	04/18/16 17:29	91-20-3	
Phenanthrene	0.17	ug/L	0.049	0.0075	1	04/15/16 08:20	04/18/16 17:29	85-01-8	
Pyrene	0.16	ug/L	0.049	0.0075	1	04/15/16 08:20	04/18/16 17:29	129-00-0	
Total PAHs	2.8	ug/L			1	04/15/16 08:20	04/18/16 17:29		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	44	%	25-130		1	04/15/16 08:20	04/18/16 17:29	321-60-8	
Terphenyl-d14 (S)	96	%	13-158		1	04/15/16 08:20	04/18/16 17:29	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/15/16 17:06	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/15/16 17:06	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/15/16 17:06	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/15/16 17:06	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/15/16 17:06	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/15/16 17:06	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	115	%	70-130		1		04/15/16 17:06	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		04/15/16 17:06	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/15/16 17:06	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	12.4J	mg/L	20.0	10.0	5		04/26/16 14:49	14808-79-8	D3
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	384	mg/L	117	35.2	5		04/20/16 12:39		1q
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/26/16 08:54		

**Sample: 041316013**      **Lab ID: 40130733013**      Collected: 04/13/16 07:44      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	2820	ug/L	56.0	27.4	20		04/20/16 11:21	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 05:44	7429-90-5	
Antimony, Dissolved	0.17J	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 05:44	7440-36-0	
Copper, Dissolved	0.39J	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 05:44	7440-50-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

**Sample: 041316013**      **Lab ID: 40130733013**      Collected: 04/13/16 07:44      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Iron, Dissolved	<b>26100</b>	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 05:44	7439-89-6	
Manganese, Dissolved	<b>1210</b>	ug/L	1.0	0.18	1	04/20/16 08:40	04/26/16 05:44	7439-96-5	
Nickel, Dissolved	<b>1.3</b>	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 05:44	7440-02-0	
Silver, Dissolved	<b>0.030J</b>	ug/L	0.50	0.016	1	04/20/16 08:40	04/26/16 05:44	7440-22-4	
Vanadium, Dissolved	<b>2.1</b>	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 05:44	7440-62-2	
Zinc, Dissolved	<b>4.8J</b>	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 05:44	7440-66-6	
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<b>55.7</b>	ug/L	3.6	0.35	75	04/15/16 08:20	04/18/16 17:46	83-32-9	
Acenaphthylene	<b>0.85J</b>	ug/L	3.6	0.35	75	04/15/16 08:20	04/18/16 17:46	208-96-8	
Anthracene	<b>1.7J</b>	ug/L	3.6	0.29	75	04/15/16 08:20	04/18/16 17:46	120-12-7	
Benzo(a)anthracene	<b>&lt;0.37</b>	ug/L	3.6	0.37	75	04/15/16 08:20	04/18/16 17:46	56-55-3	
Benzo(a)pyrene	<b>&lt;0.32</b>	ug/L	3.6	0.32	75	04/15/16 08:20	04/18/16 17:46	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.38</b>	ug/L	3.6	0.38	75	04/15/16 08:20	04/18/16 17:46	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.25</b>	ug/L	3.6	0.25	75	04/15/16 08:20	04/18/16 17:46	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.40</b>	ug/L	3.6	0.40	75	04/15/16 08:20	04/18/16 17:46	207-08-9	
Chrysene	<b>&lt;0.30</b>	ug/L	3.6	0.30	75	04/15/16 08:20	04/18/16 17:46	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.40</b>	ug/L	3.6	0.40	75	04/15/16 08:20	04/18/16 17:46	53-70-3	
Fluoranthene	<b>1.3J</b>	ug/L	3.6	0.67	75	04/15/16 08:20	04/18/16 17:46	206-44-0	
Fluorene	<b>12.9</b>	ug/L	3.6	0.29	75	04/15/16 08:20	04/18/16 17:46	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.26</b>	ug/L	3.6	0.26	75	04/15/16 08:20	04/18/16 17:46	193-39-5	
1-Methylnaphthalene	<b>79.9</b>	ug/L	3.6	0.22	75	04/15/16 08:20	04/18/16 17:46	90-12-0	
2-Methylnaphthalene	<b>10.3</b>	ug/L	3.6	0.20	75	04/15/16 08:20	04/18/16 17:46	91-57-6	
Naphthalene	<b>459</b>	ug/L	3.6	0.32	75	04/15/16 08:20	04/18/16 17:46	91-20-3	
Phenanthrene	<b>15.8</b>	ug/L	3.6	0.55	75	04/15/16 08:20	04/18/16 17:46	85-01-8	
Pyrene	<b>1.2J</b>	ug/L	3.6	0.55	75	04/15/16 08:20	04/18/16 17:46	129-00-0	
Total PAHs	<b>639</b>	ug/L			75	04/15/16 08:20	04/18/16 17:46		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	43	%	25-130		75	04/15/16 08:20	04/18/16 17:46	321-60-8	
Terphenyl-d14 (S)	45	%	13-158		75	04/15/16 08:20	04/18/16 17:46	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<b>234</b>	ug/L	2.0	1.0	2		04/18/16 13:01	71-43-2	
Ethylbenzene	<b>183</b>	ug/L	2.0	1.0	2		04/18/16 13:01	100-41-4	
Toluene	<b>14.5</b>	ug/L	2.0	1.0	2		04/18/16 13:01	108-88-3	
Xylene (Total)	<b>124</b>	ug/L	6.0	3.0	2		04/18/16 13:01	1330-20-7	
m&p-Xylene	<b>26.5</b>	ug/L	4.0	2.0	2		04/18/16 13:01	179601-23-1	
o-Xylene	<b>97.2</b>	ug/L	2.0	1.0	2		04/18/16 13:01	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	123	%	70-130		2		04/18/16 13:01	1868-53-7	
Toluene-d8 (S)	103	%	70-130		2		04/18/16 13:01	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		2		04/18/16 13:01	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>45.4</b>	mg/L	20.0	10.0	5		04/26/16 15:02	14808-79-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

**Sample: 041316013**      **Lab ID: 40130733013**      Collected: 04/13/16 07:44      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>744</b>	mg/L	47.0	14.1	2		04/20/16 12:40		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		04/26/16 08:55		

**Sample: 041316014**      **Lab ID: 40130733014**      Collected: 04/13/16 08:34      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>2900</b>	ug/L	56.0	27.4	20		04/20/16 11:35	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 05:50	7429-90-5	
Antimony, Dissolved	<b>&lt;0.073</b>	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 05:50	7440-36-0	
Copper, Dissolved	<b>1.1</b>	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 05:50	7440-50-8	
Iron, Dissolved	<b>33400</b>	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 05:50	7439-89-6	
Manganese, Dissolved	<b>1580</b>	ug/L	1.0	0.18	1	04/20/16 08:40	04/26/16 05:50	7439-96-5	
Nickel, Dissolved	<b>0.97J</b>	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 05:50	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/20/16 08:40	04/26/16 05:50	7440-22-4	
Vanadium, Dissolved	<b>3.9</b>	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 05:50	7440-62-2	
Zinc, Dissolved	<b>4.7J</b>	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 05:50	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>2.2</b>	ug/L	0.050	0.0050	1	04/19/16 07:50	04/20/16 21:13	83-32-9	
Acenaphthylene	<b>0.056</b>	ug/L	0.050	0.0049	1	04/19/16 07:50	04/20/16 21:13	208-96-8	
Anthracene	<b>0.035J</b>	ug/L	0.050	0.0040	1	04/19/16 07:50	04/20/16 21:13	120-12-7	
Benzo(a)anthracene	<b>0.011J</b>	ug/L	0.050	0.0051	1	04/19/16 07:50	04/20/16 21:13	56-55-3	
Benzo(a)pyrene	<b>0.0062J</b>	ug/L	0.050	0.0044	1	04/19/16 07:50	04/20/16 21:13	50-32-8	
Benzo(b)fluoranthene	<b>0.014J</b>	ug/L	0.050	0.0053	1	04/19/16 07:50	04/20/16 21:13	205-99-2	
Benzo(g,h,i)perylene	<b>0.0073J</b>	ug/L	0.050	0.0035	1	04/19/16 07:50	04/20/16 21:13	191-24-2	B
Benzo(k)fluoranthene	<b>0.0088J</b>	ug/L	0.050	0.0056	1	04/19/16 07:50	04/20/16 21:13	207-08-9	
Chrysene	<b>0.019J</b>	ug/L	0.050	0.0042	1	04/19/16 07:50	04/20/16 21:13	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0056</b>	ug/L	0.050	0.0056	1	04/19/16 07:50	04/20/16 21:13	53-70-3	
Fluoranthene	<b>0.10</b>	ug/L	0.050	0.0094	1	04/19/16 07:50	04/20/16 21:13	206-44-0	
Fluorene	<b>0.51</b>	ug/L	0.050	0.0040	1	04/19/16 07:50	04/20/16 21:13	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.0052J</b>	ug/L	0.050	0.0036	1	04/19/16 07:50	04/20/16 21:13	193-39-5	B
1-Methylnaphthalene	<b>0.80</b>	ug/L	0.050	0.0031	1	04/19/16 07:50	04/20/16 21:13	90-12-0	
2-Methylnaphthalene	<b>0.025J</b>	ug/L	0.050	0.0028	1	04/19/16 07:50	04/20/16 21:13	91-57-6	
Naphthalene	<b>1.0</b>	ug/L	0.050	0.0045	1	04/19/16 07:50	04/20/16 21:13	91-20-3	
Phenanthrene	<b>0.099</b>	ug/L	0.050	0.0077	1	04/19/16 07:50	04/20/16 21:13	85-01-8	
Pyrene	<b>0.093</b>	ug/L	0.050	0.0077	1	04/19/16 07:50	04/20/16 21:13	129-00-0	
Total PAHs	<b>5.1</b>	ug/L			1	04/19/16 07:50	04/20/16 21:13		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Sample Project No.: 40130733

**Sample: 041316014**      **Lab ID: 40130733014**      Collected: 04/13/16 08:34      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	53	%	25-130		1	04/19/16 07:50	04/20/16 21:13	321-60-8	
Terphenyl-d14 (S)	88	%	13-158		1	04/19/16 07:50	04/20/16 21:13	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/15/16 17:28	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/15/16 17:28	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/15/16 17:28	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/15/16 17:28	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/15/16 17:28	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/15/16 17:28	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	111	%	70-130		1		04/15/16 17:28	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		04/15/16 17:28	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/15/16 17:28	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	20.4	mg/L	20.0	10.0	5		04/26/16 15:14	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	537	mg/L	47.0	14.1	2		04/20/16 12:40		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/26/16 08:56		

**Sample: 041316015**      **Lab ID: 40130733015**      Collected: 04/13/16 09:18      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	8790	ug/L	280	137	100		04/20/16 11:42	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 06:10	7429-90-5	
Antimony, Dissolved	0.23J	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 06:10	7440-36-0	
Copper, Dissolved	0.34J	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 06:10	7440-50-8	
Iron, Dissolved	5200	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 06:10	7439-89-6	
Manganese, Dissolved	478	ug/L	1.0	0.18	1	04/20/16 08:40	04/26/16 06:10	7439-96-5	
Nickel, Dissolved	2.0	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 06:10	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/20/16 08:40	04/26/16 06:10	7440-22-4	
Vanadium, Dissolved	0.58J	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 06:10	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 06:10	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

**Sample: 041316015**      **Lab ID: 40130733015**      Collected: 04/13/16 09:18      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI					Preparation Method: EPA 3510				
Acenaphthene	0.16	ug/L	0.048	0.0048	1	04/19/16 07:50	04/20/16 21:31	83-32-9	
Acenaphthylene	0.0097J	ug/L	0.048	0.0048	1	04/19/16 07:50	04/20/16 21:31	208-96-8	
Anthracene	0.023J	ug/L	0.048	0.0039	1	04/19/16 07:50	04/20/16 21:31	120-12-7	
Benzo(a)anthracene	<0.0049	ug/L	0.048	0.0049	1	04/19/16 07:50	04/20/16 21:31	56-55-3	
Benzo(a)pyrene	<0.0042	ug/L	0.048	0.0042	1	04/19/16 07:50	04/20/16 21:31	50-32-8	
Benzo(b)fluoranthene	0.011J	ug/L	0.048	0.0051	1	04/19/16 07:50	04/20/16 21:31	205-99-2	
Benzo(g,h,i)perylene	0.0038J	ug/L	0.048	0.0034	1	04/19/16 07:50	04/20/16 21:31	191-24-2	B
Benzo(k)fluoranthene	<0.0054	ug/L	0.048	0.0054	1	04/19/16 07:50	04/20/16 21:31	207-08-9	
Chrysene	0.012J	ug/L	0.048	0.0041	1	04/19/16 07:50	04/20/16 21:31	218-01-9	
Dibenz(a,h)anthracene	<0.0053	ug/L	0.048	0.0053	1	04/19/16 07:50	04/20/16 21:31	53-70-3	
Fluoranthene	0.042J	ug/L	0.048	0.0090	1	04/19/16 07:50	04/20/16 21:31	206-44-0	
Fluorene	0.090	ug/L	0.048	0.0039	1	04/19/16 07:50	04/20/16 21:31	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0034	ug/L	0.048	0.0034	1	04/19/16 07:50	04/20/16 21:31	193-39-5	
1-Methylnaphthalene	0.010J	ug/L	0.048	0.0030	1	04/19/16 07:50	04/20/16 21:31	90-12-0	
2-Methylnaphthalene	0.0046J	ug/L	0.048	0.0026	1	04/19/16 07:50	04/20/16 21:31	91-57-6	
Naphthalene	0.036J	ug/L	0.048	0.0044	1	04/19/16 07:50	04/20/16 21:31	91-20-3	B
Phenanthrene	0.012J	ug/L	0.048	0.0074	1	04/19/16 07:50	04/20/16 21:31	85-01-8	
Pyrene	0.046J	ug/L	0.048	0.0074	1	04/19/16 07:50	04/20/16 21:31	129-00-0	
Total PAHs	0.47	ug/L			1	04/19/16 07:50	04/20/16 21:31		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	53	%	25-130		1	04/19/16 07:50	04/20/16 21:31	321-60-8	
Terphenyl-d14 (S)	83	%	13-158		1	04/19/16 07:50	04/20/16 21:31	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/15/16 17:50	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/15/16 17:50	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/15/16 17:50	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/15/16 17:50	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/15/16 17:50	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/15/16 17:50	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	119	%	70-130		1		04/15/16 17:50	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		04/15/16 17:50	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/15/16 17:50	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	11.2J	mg/L	20.0	10.0	5		04/26/16 15:26	14808-79-8	D3
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	692	mg/L	47.0	14.1	2		04/20/16 12:41		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/26/16 08:57		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

Sample: 041316016 Lab ID: 40130733016 Collected: 04/13/16 10:05 Received: 04/13/16 12:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	2800	ug/L	70.0	34.2	25		04/20/16 11:49	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<0.68.7	ug/L	250	68.7	1	04/20/16 08:40	04/26/16 06:17	7429-90-5	
Antimony, Dissolved	0.18J	ug/L	1.0	0.073	1	04/20/16 08:40	04/26/16 06:17	7440-36-0	
Copper, Dissolved	6.1	ug/L	1.0	0.26	1	04/20/16 08:40	04/26/16 06:17	7440-50-8	
Iron, Dissolved	5750	ug/L	250	10.0	1	04/20/16 08:40	04/26/16 06:17	7439-89-6	
Manganese, Dissolved	552	ug/L	1.0	0.18	1	04/20/16 08:40	04/26/16 06:17	7439-96-5	
Nickel, Dissolved	1.5	ug/L	1.0	0.11	1	04/20/16 08:40	04/26/16 06:17	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/20/16 08:40	04/26/16 06:17	7440-22-4	
Vanadium, Dissolved	0.73J	ug/L	1.0	0.15	1	04/20/16 08:40	04/26/16 06:17	7440-62-2	
Zinc, Dissolved	5.4J	ug/L	10.0	3.1	1	04/20/16 08:40	04/26/16 06:17	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.0083J	ug/L	0.048	0.0048	1	04/19/16 07:50	04/20/16 21:49	83-32-9	
Acenaphthylene	<0.0048	ug/L	0.048	0.0048	1	04/19/16 07:50	04/20/16 21:49	208-96-8	
Anthracene	<0.0039	ug/L	0.048	0.0039	1	04/19/16 07:50	04/20/16 21:49	120-12-7	
Benzo(a)anthracene	<0.0049	ug/L	0.048	0.0049	1	04/19/16 07:50	04/20/16 21:49	56-55-3	
Benzo(a)pyrene	<0.0042	ug/L	0.048	0.0042	1	04/19/16 07:50	04/20/16 21:49	50-32-8	
Benzo(b)fluoranthene	<0.0051	ug/L	0.048	0.0051	1	04/19/16 07:50	04/20/16 21:49	205-99-2	
Benzo(g,h,i)perylene	<0.0034	ug/L	0.048	0.0034	1	04/19/16 07:50	04/20/16 21:49	191-24-2	
Benzo(k)fluoranthene	<0.0054	ug/L	0.048	0.0054	1	04/19/16 07:50	04/20/16 21:49	207-08-9	
Chrysene	<0.0041	ug/L	0.048	0.0041	1	04/19/16 07:50	04/20/16 21:49	218-01-9	
Dibenz(a,h)anthracene	<0.0053	ug/L	0.048	0.0053	1	04/19/16 07:50	04/20/16 21:49	53-70-3	
Fluoranthene	<0.0090	ug/L	0.048	0.0090	1	04/19/16 07:50	04/20/16 21:49	206-44-0	
Fluorene	<0.0039	ug/L	0.048	0.0039	1	04/19/16 07:50	04/20/16 21:49	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0034	ug/L	0.048	0.0034	1	04/19/16 07:50	04/20/16 21:49	193-39-5	
1-Methylnaphthalene	<0.0030	ug/L	0.048	0.0030	1	04/19/16 07:50	04/20/16 21:49	90-12-0	
2-Methylnaphthalene	<0.0026	ug/L	0.048	0.0026	1	04/19/16 07:50	04/20/16 21:49	91-57-6	
Naphthalene	0.0099J	ug/L	0.048	0.0044	1	04/19/16 07:50	04/20/16 21:49	91-20-3	B
Phenanthrene	<0.0074	ug/L	0.048	0.0074	1	04/19/16 07:50	04/20/16 21:49	85-01-8	
Pyrene	<0.0074	ug/L	0.048	0.0074	1	04/19/16 07:50	04/20/16 21:49	129-00-0	
Total PAHs	0.043	ug/L			1	04/19/16 07:50	04/20/16 21:49		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	51	%	25-130		1	04/19/16 07:50	04/20/16 21:49	321-60-8	
Terphenyl-d14 (S)	83	%	13-158		1	04/19/16 07:50	04/20/16 21:49	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/15/16 18:12	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/15/16 18:12	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/15/16 18:12	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/15/16 18:12	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/15/16 18:12	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/15/16 18:12	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	116	%	70-130		1		04/15/16 18:12	1868-53-7	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

**Sample: 041316016**      **Lab ID: 40130733016**      Collected: 04/13/16 10:05      Received: 04/13/16 12:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
<b>Surrogates</b>									
Toluene-d8 (S)	106	%	70-130		1		04/15/16 18:12	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/15/16 18:12	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<10.0	mg/L	20.0	10.0	5		04/26/16 15:38	14808-79-8	D3
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	351	mg/L	47.0	14.1	2		04/20/16 12:41		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/26/16 09:00		

Sample information not related to current property, and therefore not shown.

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## ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

**Sample information not related to current property, and  
therefore not shown.**

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

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QC Batch: GCV/15922 Analysis Method: EPA 8015B Modified  
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV  
Associated Lab Samples: 40130733001, 40130733002, 40130733003, 40130733004, 40130733005, 40130733006, 40130733007, 40130733008, 40130733009, 40130733010, 40130733011, 40130733012, 40130733013, 40130733014, 40130733015, 40130733016

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METHOD BLANK: 1322816 Matrix: Water  
Associated Lab Samples: 40130733001, 40130733002, 40130733003, 40130733004, 40130733005, 40130733006, 40130733007, 40130733008, 40130733009, 40130733010, 40130733011, 40130733012, 40130733013, 40130733014, 40130733015, 40130733016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<1.4	2.8	04/20/16 08:07	

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LABORATORY CONTROL SAMPLE & LCSD: 1322817 1322818

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	26.2	25.9	92	91	73-122	1	20	

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322819 1322820

Parameter	Units	40130733008 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	29.5	31.2	81	86	15-187	5	20	

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

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

QC Batch: MPRP/13638 Analysis Method: EPA 6020  
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
Associated Lab Samples: 40130733001, 40130733002, 40130733003, 40130733004, 40130733005, 40130733006, 40130733007, 40130733008, 40130733009, 40130733010, 40130733011, 40130733012, 40130733013, 40130733014, 40130733015, 40130733016

METHOD BLANK: 1322967 Matrix: Water  
Associated Lab Samples: 40130733001, 40130733002, 40130733003, 40130733004, 40130733005, 40130733006, 40130733007, 40130733008, 40130733009, 40130733010, 40130733011, 40130733012, 40130733013, 40130733014, 40130733015, 40130733016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<68.7	250	04/26/16 03:31	
Antimony, Dissolved	ug/L	<0.073	1.0	04/26/16 03:31	
Copper, Dissolved	ug/L	<0.26	1.0	04/26/16 03:31	
Iron, Dissolved	ug/L	<10.0	250	04/26/16 03:31	
Manganese, Dissolved	ug/L	<0.18	1.0	04/26/16 03:31	
Nickel, Dissolved	ug/L	<0.11	1.0	04/26/16 03:31	
Silver, Dissolved	ug/L	<0.016	0.50	04/26/16 03:31	
Vanadium, Dissolved	ug/L	<0.15	1.0	04/26/16 03:31	
Zinc, Dissolved	ug/L	<3.1	10.0	04/26/16 03:31	

LABORATORY CONTROL SAMPLE: 1322968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	5040	101	80-120	
Antimony, Dissolved	ug/L	500	564	113	80-120	
Copper, Dissolved	ug/L	500	513	103	80-120	
Iron, Dissolved	ug/L	5000	5100	102	80-120	
Manganese, Dissolved	ug/L	500	510	102	80-120	
Nickel, Dissolved	ug/L	500	508	102	80-120	
Silver, Dissolved	ug/L	250	260	104	80-120	
Vanadium, Dissolved	ug/L	500	510	102	80-120	
Zinc, Dissolved	ug/L	500	523	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322969 1322970

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40130733008 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum, Dissolved	ug/L	<68.7	5000	5000	4380	4370	88	87	75-125	0	20	
Antimony, Dissolved	ug/L	0.23J	500	500	544	532	109	106	75-125	2	20	
Copper, Dissolved	ug/L	5.6	500	500	454	450	90	89	75-125	1	20	
Iron, Dissolved	ug/L	1360	5000	5000	6020	6030	93	93	75-125	0	20	
Manganese, Dissolved	ug/L	965	500	500	1440	1460	95	99	75-125	2	20	
Nickel, Dissolved	ug/L	22.4	500	500	467	463	89	88	75-125	1	20	
Silver, Dissolved	ug/L	<0.033	250	250	231	234	92	94	75-125	1	20	
Vanadium, Dissolved	ug/L	0.45J	500	500	500	502	100	100	75-125	0	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322969		1322970		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40130733008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									
Zinc, Dissolved	ug/L	279	500	500	757	754	96	95	75-125	0	20			

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

QC Batch: MSV/33007 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Associated Lab Samples: 40130733001, 40130733002, 40130733003, 40130733004, 40130733005, 40130733006, 40130733007, 40130733008, 40130733009, 40130733010, 40130733011, 40130733012, 40130733013, 40130733014, 40130733015, 40130733016, 40130733017, 40130733018

METHOD BLANK: 1319632 Matrix: Water  
Associated Lab Samples: 40130733001, 40130733002, 40130733003, 40130733004, 40130733005, 40130733006, 40130733007, 40130733008, 40130733009, 40130733010, 40130733011, 40130733012, 40130733013, 40130733014, 40130733015, 40130733016, 40130733017, 40130733018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	04/15/16 10:50	
Ethylbenzene	ug/L	<0.50	1.0	04/15/16 10:50	
m&p-Xylene	ug/L	<1.0	2.0	04/15/16 10:50	
o-Xylene	ug/L	<0.50	1.0	04/15/16 10:50	
Toluene	ug/L	<0.50	1.0	04/15/16 10:50	
Xylene (Total)	ug/L	<1.5	3.0	04/15/16 10:50	
4-Bromofluorobenzene (S)	%	95	70-130	04/15/16 10:50	
Dibromofluoromethane (S)	%	116	70-130	04/15/16 10:50	
Toluene-d8 (S)	%	105	70-130	04/15/16 10:50	

LABORATORY CONTROL SAMPLE: 1319633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	56.3	113	60-135	
Ethylbenzene	ug/L	50	53.6	107	70-136	
m&p-Xylene	ug/L	100	106	106	70-138	
o-Xylene	ug/L	50	51.8	104	70-134	
Toluene	ug/L	50	53.8	108	70-130	
Xylene (Total)	ug/L	150	158	105	70-135	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1319634 1319635

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40130733008 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	<0.50	50	50	62.1	55.0	124	110	57-138	12	20
Ethylbenzene	ug/L	<0.50	50	50	52.8	51.6	106	103	70-138	2	20
m&p-Xylene	ug/L	<1.0	100	100	103	101	103	101	70-140	2	20
o-Xylene	ug/L	<0.50	50	50	50.8	50.2	102	100	70-134	1	20
Toluene	ug/L	<0.50	50	50	52.0	51.7	104	103	70-130	1	20
Xylene (Total)	ug/L	<1.5	150	150	154	151	103	101	70-135	2	20
4-Bromofluorobenzene (S)	%						103	100	70-130		
Dibromofluoromethane (S)	%						117	102	70-130		

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1319634		1319635									
Parameter	Units	40130733008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Toluene-d8 (S)	%						105	104	70-130				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

QC Batch: OEXT/30167 Analysis Method: EPA 8270 by HVI  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI  
 Associated Lab Samples: 40130733001, 40130733002, 40130733003, 40130733004, 40130733005, 40130733006

METHOD BLANK: 1319925 Matrix: Water  
 Associated Lab Samples: 40130733001, 40130733002, 40130733003, 40130733004, 40130733005, 40130733006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0031	0.050	04/14/16 16:58	
2-Methylnaphthalene	ug/L	<0.0028	0.050	04/14/16 16:58	
Acenaphthene	ug/L	<0.0050	0.050	04/14/16 16:58	
Acenaphthylene	ug/L	<0.0049	0.050	04/14/16 16:58	
Anthracene	ug/L	<0.0040	0.050	04/14/16 16:58	
Benzo(a)anthracene	ug/L	<0.0051	0.050	04/14/16 16:58	
Benzo(a)pyrene	ug/L	<0.0044	0.050	04/14/16 16:58	
Benzo(b)fluoranthene	ug/L	<0.0053	0.050	04/14/16 16:58	
Benzo(g,h,i)perylene	ug/L	<0.0035	0.050	04/14/16 16:58	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	04/14/16 16:58	
Chrysene	ug/L	0.0048J	0.050	04/14/16 16:58	
Dibenz(a,h)anthracene	ug/L	<0.0056	0.050	04/14/16 16:58	
Fluoranthene	ug/L	<0.0094	0.050	04/14/16 16:58	
Fluorene	ug/L	<0.0040	0.050	04/14/16 16:58	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	0.050	04/14/16 16:58	
Naphthalene	ug/L	<0.0045	0.050	04/14/16 16:58	
Phenanthrene	ug/L	<0.0077	0.050	04/14/16 16:58	
Pyrene	ug/L	<0.0077	0.050	04/14/16 16:58	
Total PAHs	ug/L	0.022		04/14/16 16:58	
2-Fluorobiphenyl (S)	%	67	25-130	04/14/16 16:58	
Terphenyl-d14 (S)	%	109	13-158	04/14/16 16:58	

LABORATORY CONTROL SAMPLE: 1319926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	0.95	48	35-130	
2-Methylnaphthalene	ug/L	2	0.95	48	36-130	
Acenaphthene	ug/L	2	0.99	50	41-130	
Acenaphthylene	ug/L	2	0.95	48	41-130	
Anthracene	ug/L	2	1.1	54	38-130	
Benzo(a)anthracene	ug/L	2	0.98	49	49-130	
Benzo(a)pyrene	ug/L	2	1.5	76	69-143	
Benzo(b)fluoranthene	ug/L	2	1.6	79	63-146	
Benzo(g,h,i)perylene	ug/L	2	1.2	60	10-145	
Benzo(k)fluoranthene	ug/L	2	2.2	110	64-152	
Chrysene	ug/L	2	2.1	103	64-156	
Dibenz(a,h)anthracene	ug/L	2	0.88	44	10-143	
Fluoranthene	ug/L	2	1.6	79	54-134	
Fluorene	ug/L	2	1.0	52	44-130	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.2	59	39-140	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

LABORATORY CONTROL SAMPLE: 1319926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	0.97	48	35-130	
Phenanthrene	ug/L	2	1.4	71	51-130	
Pyrene	ug/L	2	1.6	82	61-140	
Total PAHs	ug/L		23.1			
2-Fluorobiphenyl (S)	%			60	25-130	
Terphenyl-d14 (S)	%			93	13-158	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1319927 1319928

Parameter	Units	40130720015		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1-Methylnaphthalene	ug/L	<0.0031	1.9	2	1.2	1.1	62	53	16-130	11	30		
2-Methylnaphthalene	ug/L	<0.0027	1.9	2	1.2	1.1	64	53	33-130	13	30		
Acenaphthene	ug/L	<0.0049	1.9	2	1.1	1.1	59	55	29-130	1	27		
Acenaphthylene	ug/L	<0.0049	1.9	2	1.2	1.1	64	54	33-130	11	27		
Anthracene	ug/L	<0.0040	1.9	2	1.4	1.3	72	67	26-130	2	31		
Benzo(a)anthracene	ug/L	<0.0051	1.9	2	1.6	1.7	87	86	27-130	5	36		
Benzo(a)pyrene	ug/L	<0.0044	1.9	2	1.7	1.9	90	94	16-151	10	44		
Benzo(b)fluoranthene	ug/L	<0.0053	1.9	2	1.8	1.9	93	95	30-142	8	41		
Benzo(g,h,i)perylene	ug/L	0.0038J	1.9	2	1.2	1.4	63	69	10-130	15	50		
Benzo(k)fluoranthene	ug/L	<0.0056	1.9	2	1.7	1.9	91	93	24-152	8	41		
Chrysene	ug/L	<0.0042	1.9	2	1.8	1.9	94	96	40-152	8	33		
Dibenz(a,h)anthracene	ug/L	<0.0055	1.9	2	1.3	1.4	66	72	10-130	14	50		
Fluoranthene	ug/L	0.011J	1.9	2	1.6	1.7	82	83	39-140	7	30		
Fluorene	ug/L	<0.0040	1.9	2	1.1	1.3	57	64	35-130	16	26		
Indeno(1,2,3-cd)pyrene	ug/L	<0.0035	1.9	2	1.6	1.8	82	88	10-130	12	50		
Naphthalene	ug/L	<0.0045	1.9	2	1.2	1.1	65	54	29-130	13	31		
Phenanthrene	ug/L	<0.0076	1.9	2	1.6	1.5	83	75	48-130	4	25		
Pyrene	ug/L	0.016J	1.9	2	1.5	1.6	80	81	42-143	6	25		
Total PAHs	ug/L	0.054			25.6	26.7					4		
2-Fluorobiphenyl (S)	%						66	59	25-130				
Terphenyl-d14 (S)	%						91	86	13-158				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

QC Batch: OEXT/30173 Analysis Method: EPA 8270 by HVI  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI  
 Associated Lab Samples: 40130733007, 40130733008, 40130733009, 40130733010, 40130733011, 40130733012, 40130733013

METHOD BLANK: 1320447 Matrix: Water  
 Associated Lab Samples: 40130733007, 40130733008, 40130733009, 40130733010, 40130733011, 40130733012, 40130733013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0031	0.050	04/15/16 18:15	
2-Methylnaphthalene	ug/L	<0.0028	0.050	04/15/16 18:15	
Acenaphthene	ug/L	<0.0050	0.050	04/15/16 18:15	
Acenaphthylene	ug/L	<0.0049	0.050	04/15/16 18:15	
Anthracene	ug/L	<0.0040	0.050	04/15/16 18:15	
Benzo(a)anthracene	ug/L	<0.0051	0.050	04/15/16 18:15	
Benzo(a)pyrene	ug/L	<0.0044	0.050	04/15/16 18:15	
Benzo(b)fluoranthene	ug/L	<0.0053	0.050	04/15/16 18:15	
Benzo(g,h,i)perylene	ug/L	<0.0035	0.050	04/15/16 18:15	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	04/15/16 18:15	
Chrysene	ug/L	<0.0042	0.050	04/15/16 18:15	
Dibenz(a,h)anthracene	ug/L	<0.0056	0.050	04/15/16 18:15	
Fluoranthene	ug/L	<0.0094	0.050	04/15/16 18:15	
Fluorene	ug/L	<0.0040	0.050	04/15/16 18:15	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	0.050	04/15/16 18:15	
Naphthalene	ug/L	0.0081J	0.050	04/15/16 18:15	
Phenanthrene	ug/L	<0.0077	0.050	04/15/16 18:15	
Pyrene	ug/L	<0.0077	0.050	04/15/16 18:15	
Total PAHs	ug/L	0.033		04/15/16 18:15	
2-Fluorobiphenyl (S)	%	54	25-130	04/15/16 18:15	
Terphenyl-d14 (S)	%	99	13-158	04/15/16 18:15	

LABORATORY CONTROL SAMPLE: 1320448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.2	60	35-130	
2-Methylnaphthalene	ug/L	2	1.2	62	36-130	
Acenaphthene	ug/L	2	1.1	54	41-130	
Acenaphthylene	ug/L	2	1.0	51	41-130	
Anthracene	ug/L	2	1.4	71	38-130	
Benzo(a)anthracene	ug/L	2	1.8	89	49-130	
Benzo(a)pyrene	ug/L	2	2.1	104	69-143	
Benzo(b)fluoranthene	ug/L	2	2.2	110	63-146	
Benzo(g,h,i)perylene	ug/L	2	1.8	90	10-145	
Benzo(k)fluoranthene	ug/L	2	2.0	101	64-152	
Chrysene	ug/L	2	2.1	103	64-156	
Dibenz(a,h)anthracene	ug/L	2	1.8	88	10-143	
Fluoranthene	ug/L	2	1.7	87	54-134	
Fluorene	ug/L	2	1.1	57	44-130	
Indeno(1,2,3-cd)pyrene	ug/L	2	2.0	100	39-140	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

LABORATORY CONTROL SAMPLE: 1320448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	1.1	56	35-130	
Phenanthrene	ug/L	2	1.7	85	51-130	
Pyrene	ug/L	2	1.7	86	61-140	
Total PAHs	ug/L		29.1			
2-Fluorobiphenyl (S)	%			56	25-130	
Terphenyl-d14 (S)	%			100	13-158	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1320449 1320450

Parameter	Units	40130733008		1320449		1320450		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
1-Methylnaphthalene	ug/L	0.0044J	2	2	1.3	1.2	64	62	16-130	2	30			
2-Methylnaphthalene	ug/L	0.0066J	2	2	1.3	1.3	66	64	33-130	4	30			
Acenaphthene	ug/L	<0.0050	2	2	1.0	1.1	51	56	29-130	9	27			
Acenaphthylene	ug/L	<0.0049	2	2	1.0	1.1	50	55	33-130	8	27			
Anthracene	ug/L	<0.0040	2	2	1.2	1.4	61	68	26-130	10	31			
Benzo(a)anthracene	ug/L	<0.0051	2	2	1.6	1.6	78	80	27-130	2	36			
Benzo(a)pyrene	ug/L	<0.0044	2	2	1.7	1.8	86	90	16-151	4	44			
Benzo(b)fluoranthene	ug/L	<0.0053	2	2	1.9	2.0	94	98	30-142	5	41			
Benzo(g,h,i)perylene	ug/L	0.0040J	2	2	1.2	1.4	59	72	10-130	20	50			
Benzo(k)fluoranthene	ug/L	<0.0056	2	2	1.8	1.8	88	91	24-152	3	41			
Chrysene	ug/L	<0.0042	2	2	1.8	1.8	89	92	40-152	3	33			
Dibenz(a,h)anthracene	ug/L	<0.0056	2	2	1.2	1.5	62	74	10-130	18	50			
Fluoranthene	ug/L	<0.0094	2	2	1.5	1.6	76	79	39-140	4	30			
Fluorene	ug/L	<0.0040	2	2	1.1	1.2	57	60	35-130	5	26			
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	2	2	1.5	1.6	77	82	10-130	7	50			
Naphthalene	ug/L	0.014J	2	2	1.2	1.1	58	56	29-130	4	31			
Phenanthrene	ug/L	<0.0077	2	2	1.5	1.6	73	80	48-130	9	25			
Pyrene	ug/L	0.0098J	2	2	1.5	1.6	76	78	42-143	3	25			
Total PAHs	ug/L	0.064			25.4	26.8					5			
2-Fluorobiphenyl (S)	%						56	58	25-130					
Terphenyl-d14 (S)	%						83	84	13-158					

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

QC Batch: OEXT/30184 Analysis Method: EPA 8270 by HVI  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI  
 Associated Lab Samples: 40130733014, 40130733015, 40130733016

METHOD BLANK: 1322122 Matrix: Water

Associated Lab Samples: 40130733014, 40130733015, 40130733016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0031	0.050	04/20/16 13:13	
2-Methylnaphthalene	ug/L	<0.0028	0.050	04/20/16 13:13	
Acenaphthene	ug/L	<0.0050	0.050	04/20/16 13:13	
Acenaphthylene	ug/L	<0.0049	0.050	04/20/16 13:13	
Anthracene	ug/L	<0.0040	0.050	04/20/16 13:13	
Benzo(a)anthracene	ug/L	<0.0051	0.050	04/20/16 13:13	
Benzo(a)pyrene	ug/L	<0.0044	0.050	04/20/16 13:13	
Benzo(b)fluoranthene	ug/L	<0.0053	0.050	04/20/16 13:13	
Benzo(g,h,i)perylene	ug/L	0.0053J	0.050	04/20/16 13:13	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	04/20/16 13:13	
Chrysene	ug/L	<0.0042	0.050	04/20/16 13:13	
Dibenz(a,h)anthracene	ug/L	<0.0056	0.050	04/20/16 13:13	
Fluoranthene	ug/L	<0.0094	0.050	04/20/16 13:13	
Fluorene	ug/L	<0.0040	0.050	04/20/16 13:13	
Indeno(1,2,3-cd)pyrene	ug/L	0.0044J	0.050	04/20/16 13:13	
Naphthalene	ug/L	0.0052J	0.050	04/20/16 13:13	
Phenanthrene	ug/L	<0.0077	0.050	04/20/16 13:13	
Pyrene	ug/L	<0.0077	0.050	04/20/16 13:13	
Total PAHs	ug/L	0.029		04/20/16 13:13	
2-Fluorobiphenyl (S)	%	58	25-130	04/20/16 13:13	
Terphenyl-d14 (S)	%	110	13-158	04/20/16 13:13	

LABORATORY CONTROL SAMPLE & LCSD: 1322123 1322124

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.4	1.6	71	78	35-130	8	36	
2-Methylnaphthalene	ug/L	2	1.4	1.6	72	79	36-130	9	37	
Acenaphthene	ug/L	2	1.4	1.5	71	75	41-130	6	32	
Acenaphthylene	ug/L	2	1.3	1.4	66	71	41-130	8	32	
Anthracene	ug/L	2	1.8	1.9	88	93	38-130	6	28	
Benzo(a)anthracene	ug/L	2	1.8	2.0	91	99	49-130	8	27	
Benzo(a)pyrene	ug/L	2	2.4	2.5	118	127	69-143	7	26	
Benzo(b)fluoranthene	ug/L	2	2.4	2.5	118	125	63-146	5	28	
Benzo(g,h,i)perylene	ug/L	2	1.5	1.7	77	84	10-145	8	37	
Benzo(k)fluoranthene	ug/L	2	2.5	2.6	125	132	64-152	6	28	
Chrysene	ug/L	2	2.4	2.5	121	123	64-156	1	26	
Dibenz(a,h)anthracene	ug/L	2	1.5	1.6	74	79	10-143	7	39	
Fluoranthene	ug/L	2	2.0	2.2	102	109	54-134	7	23	
Fluorene	ug/L	2	1.5	1.6	74	79	44-130	6	33	
Indeno(1,2,3-cd)pyrene	ug/L	2	2.3	2.4	113	122	39-140	7	26	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

Parameter	Units	Spike Conc.	1322123		1322124		% Rec Limits	RPD	Max RPD	Qualifiers
			LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Naphthalene	ug/L	2	1.3	1.5	67	74	35-130	11	39	
Phenanthrene	ug/L	2	1.9	2.0	95	101	51-130	6	29	
Pyrene	ug/L	2	2.2	2.3	108	113	61-140	5	24	
Total PAHs	ug/L		33.1	35.3				6		
2-Fluorobiphenyl (S)	%				64	69	25-130			
Terphenyl-d14 (S)	%				111	117	13-158			

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

QC Batch:	WETA/33212	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	40130733001, 40130733002, 40130733003, 40130733004, 40130733005, 40130733006, 40130733007, 40130733008, 40130733009, 40130733010, 40130733011, 40130733012, 40130733013, 40130733014, 40130733015, 40130733016		

METHOD BLANK:	1322530	Matrix:	Water
Associated Lab Samples:	40130733001, 40130733002, 40130733003, 40130733004, 40130733005, 40130733006, 40130733007, 40130733008, 40130733009, 40130733010, 40130733011, 40130733012, 40130733013, 40130733014, 40130733015, 40130733016		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	4.0	04/26/16 10:00	

LABORATORY CONTROL SAMPLE:	1322531
----------------------------	---------

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:	1322532			1322533								
--	---------	--	--	---------	--	--	--	--	--	--	--	--

Parameter	Units	40130733008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	723	1000	1000	1820	1730	109	101	90-110	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	1322534			1322535								
--	---------	--	--	---------	--	--	--	--	--	--	--	--

Parameter	Units	40130735001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	982	1000	1000	1950	2000	97	102	90-110	3	20	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

QC Batch: WETA/33228 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
Associated Lab Samples: 40130733001, 40130733002, 40130733003, 40130733004, 40130733005, 40130733006, 40130733007, 40130733008, 40130733009, 40130733010, 40130733011, 40130733012, 40130733013, 40130733014, 40130733015, 40130733016

METHOD BLANK: 1322857 Matrix: Water  
Associated Lab Samples: 40130733001, 40130733002, 40130733003, 40130733004, 40130733005, 40130733006, 40130733007, 40130733008, 40130733009, 40130733010, 40130733011, 40130733012, 40130733013, 40130733014, 40130733015, 40130733016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<7.0	23.5	04/20/16 11:29	

LABORATORY CONTROL SAMPLE: 1322858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	100	98.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322859 1322860

Parameter	Units	40130733008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	648	500	500	1140	1140	98	98	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322861 1322862

Parameter	Units	40130981005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	255	200	200	389	413	67	79	90-110	6	20 M0	

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**QUALITY CONTROL DATA**

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

QC Batch: WETA/33307 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 40130733001, 40130733002, 40130733003, 40130733004, 40130733005, 40130733006, 40130733007, 40130733008, 40130733009, 40130733010, 40130733011, 40130733012, 40130733013, 40130733014, 40130733015, 40130733016

METHOD BLANK: 1325433 Matrix: Water  
Associated Lab Samples: 40130733001, 40130733002, 40130733003, 40130733004, 40130733005, 40130733006, 40130733007, 40130733008, 40130733009, 40130733010, 40130733011, 40130733012, 40130733013, 40130733014, 40130733015, 40130733016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	04/26/16 08:39	

LABORATORY CONTROL SAMPLE: 1325434

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1325435 1325436

Parameter	Units	40130733008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.54	2.5	2.5	3.1	3.0	101	100	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1325437 1325438

Parameter	Units	40130831002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	21.2	12.5	12.5	34.0	34.0	103	103	90-110	0	20	

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**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### BATCH QUALIFIERS

Batch: MSSV/8945

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

### ANALYTE QUALIFIERS

1q Analyte was measured in the associated method blank at a concentration of -12.9 mg/L.

B Analyte was detected in the associated method blank.

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

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40130733

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40130733001	041216001	EPA 8015B Modified	GCV/15922		
40130733002	041216002	EPA 8015B Modified	GCV/15922		
40130733003	041216003	EPA 8015B Modified	GCV/15922		
40130733004	041216004	EPA 8015B Modified	GCV/15922		
40130733005	041216005	EPA 8015B Modified	GCV/15922		
40130733006	041216006	EPA 8015B Modified	GCV/15922		
40130733007	041216007	EPA 8015B Modified	GCV/15922		
40130733008	041216008	EPA 8015B Modified	GCV/15922		
40130733009	041216009	EPA 8015B Modified	GCV/15922		
40130733010	041216010	EPA 8015B Modified	GCV/15922		
40130733011	041216011	EPA 8015B Modified	GCV/15922		
40130733012	041316012	EPA 8015B Modified	GCV/15922		
40130733013	041316013	EPA 8015B Modified	GCV/15922		
40130733014	041316014	EPA 8015B Modified	GCV/15922		
40130733015	041316015	EPA 8015B Modified	GCV/15922		
40130733016	041316016	EPA 8015B Modified	GCV/15922		
40130733001	041216001	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733002	041216002	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733003	041216003	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733004	041216004	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733005	041216005	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733006	041216006	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733007	041216007	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733008	041216008	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733009	041216009	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733010	041216010	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733011	041216011	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733012	041316012	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733013	041316013	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733014	041316014	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733015	041316015	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733016	041316016	EPA 3010	MPRP/13638	EPA 6020	ICPM/6350
40130733001	041216001	EPA 3510	OEXT/30167	EPA 8270 by HVI	MSSV/8936
40130733002	041216002	EPA 3510	OEXT/30167	EPA 8270 by HVI	MSSV/8936
40130733003	041216003	EPA 3510	OEXT/30167	EPA 8270 by HVI	MSSV/8936
40130733004	041216004	EPA 3510	OEXT/30167	EPA 8270 by HVI	MSSV/8936
40130733005	041216005	EPA 3510	OEXT/30167	EPA 8270 by HVI	MSSV/8936
40130733006	041216006	EPA 3510	OEXT/30167	EPA 8270 by HVI	MSSV/8936
40130733007	041216007	EPA 3510	OEXT/30173	EPA 8270 by HVI	MSSV/8939
40130733008	041216008	EPA 3510	OEXT/30173	EPA 8270 by HVI	MSSV/8939
40130733009	041216009	EPA 3510	OEXT/30173	EPA 8270 by HVI	MSSV/8939
40130733010	041216010	EPA 3510	OEXT/30173	EPA 8270 by HVI	MSSV/8939
40130733011	041216011	EPA 3510	OEXT/30173	EPA 8270 by HVI	MSSV/8939
40130733012	041316012	EPA 3510	OEXT/30173	EPA 8270 by HVI	MSSV/8939
40130733013	041316013	EPA 3510	OEXT/30173	EPA 8270 by HVI	MSSV/8939
40130733014	041316014	EPA 3510	OEXT/30184	EPA 8270 by HVI	MSSV/8945
40130733015	041316015	EPA 3510	OEXT/30184	EPA 8270 by HVI	MSSV/8945

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40130733016	041316016	EPA 3510	OEXT/30184	EPA 8270 by HVI	MSSV/8945
40130733001	041216001	EPA 8260	MSV/33007		
40130733002	041216002	EPA 8260	MSV/33007		
40130733003	041216003	EPA 8260	MSV/33007		
40130733004	041216004	EPA 8260	MSV/33007		
40130733005	041216005	EPA 8260	MSV/33007		
40130733006	041216006	EPA 8260	MSV/33007		
40130733007	041216007	EPA 8260	MSV/33007		
40130733008	041216008	EPA 8260	MSV/33007		
40130733009	041216009	EPA 8260	MSV/33007		
40130733010	041216010	EPA 8260	MSV/33007		
40130733011	041216011	EPA 8260	MSV/33007		
40130733012	041316012	EPA 8260	MSV/33007		
40130733013	041316013	EPA 8260	MSV/33007		
40130733014	041316014	EPA 8260	MSV/33007		
40130733015	041316015	EPA 8260	MSV/33007		
40130733016	041316016	EPA 8260	MSV/33007		
40130733017	041316017	EPA 8260	MSV/33007		
40130733018	041316018	EPA 8260	MSV/33007		
40130733001	041216001	EPA 300.0	WETA/33212		
40130733002	041216002	EPA 300.0	WETA/33212		
40130733003	041216003	EPA 300.0	WETA/33212		
40130733004	041216004	EPA 300.0	WETA/33212		
40130733005	041216005	EPA 300.0	WETA/33212		
40130733006	041216006	EPA 300.0	WETA/33212		
40130733007	041216007	EPA 300.0	WETA/33212		
40130733008	041216008	EPA 300.0	WETA/33212		
40130733009	041216009	EPA 300.0	WETA/33212		
40130733010	041216010	EPA 300.0	WETA/33212		
40130733011	041216011	EPA 300.0	WETA/33212		
40130733012	041316012	EPA 300.0	WETA/33212		
40130733013	041316013	EPA 300.0	WETA/33212		
40130733014	041316014	EPA 300.0	WETA/33212		
40130733015	041316015	EPA 300.0	WETA/33212		
40130733016	041316016	EPA 300.0	WETA/33212		
40130733001	041216001	EPA 310.2	WETA/33228		
40130733002	041216002	EPA 310.2	WETA/33228		
40130733003	041216003	EPA 310.2	WETA/33228		
40130733004	041216004	EPA 310.2	WETA/33228		
40130733005	041216005	EPA 310.2	WETA/33228		
40130733006	041216006	EPA 310.2	WETA/33228		
40130733007	041216007	EPA 310.2	WETA/33228		
40130733008	041216008	EPA 310.2	WETA/33228		
40130733009	041216009	EPA 310.2	WETA/33228		
40130733010	041216010	EPA 310.2	WETA/33228		
40130733011	041216011	EPA 310.2	WETA/33228		
40130733012	041316012	EPA 310.2	WETA/33228		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40130733

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40130733013	041316013	EPA 310.2	WETA/33228		
40130733014	041316014	EPA 310.2	WETA/33228		
40130733015	041316015	EPA 310.2	WETA/33228		
40130733016	041316016	EPA 310.2	WETA/33228		
40130733001	041216001	EPA 353.2	WETA/33307		
40130733002	041216002	EPA 353.2	WETA/33307		
40130733003	041216003	EPA 353.2	WETA/33307		
40130733004	041216004	EPA 353.2	WETA/33307		
40130733005	041216005	EPA 353.2	WETA/33307		
40130733006	041216006	EPA 353.2	WETA/33307		
40130733007	041216007	EPA 353.2	WETA/33307		
40130733008	041216008	EPA 353.2	WETA/33307		
40130733009	041216009	EPA 353.2	WETA/33307		
40130733010	041216010	EPA 353.2	WETA/33307		
40130733011	041216011	EPA 353.2	WETA/33307		
40130733012	041316012	EPA 353.2	WETA/33307		
40130733013	041316013	EPA 353.2	WETA/33307		
40130733014	041316014	EPA 353.2	WETA/33307		
40130733015	041316015	EPA 353.2	WETA/33307		
40130733016	041316016	EPA 353.2	WETA/33307		

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(Please Print Clearly)

Company Name: Natural Resource Tech  
 Branch/Location: Milwaukee, WI  
 Project Contact: Brian Hennings  
 Phone: 414-837-3524  
 Project Number: 1549  
 Project Name: Marinette Former MGP  
 Project State: WI  
 Sampled By (Print): Eric Plante  
 Sampled By (Sign): *Eric Plante*  
 PO #: \_\_\_\_\_ Regulatory Program: \_\_\_\_\_

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	041216001	7/12/16	1105	GW
002	041216002		1145	GW
003	041216003		1220	
004	041216004		1310	
005	041216005		1315	
006	041216006		1441	
007	041216007		1534	
008	041216008		1651	
009	041216009		1759	
010	041216010		1804	
011	041216011		1856	
012	041316012	7/13/16	0700	
013	041316013	7/13/16	0744	

Rush Turnaround Time Requested - Prelims  
 (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_

Transmit Prelim Rush Results by (complete what you want):

Email #1: \_\_\_\_\_  
 Email #2: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <i>Eric Plante</i>	Date/Time: 7/13/16 12:55
Relinquished By:	Date/Time:
Relinquished By:	Date/Time:
Relinquished By:	Date/Time:
Relinquished By:	Date/Time:

Received By: <i>Suzanne Wolfe</i>	Date/Time: 7/13/16 12:55
Received By:	Date/Time:
Received By:	Date/Time:
Received By:	Date/Time:
Received By:	Date/Time:

PACE Project No. 40130733

Receipt Temp = *RO I°C*

Sample Receipt pH *OK / Adjusted*

Cooler Custody Seal Present / Not Present Intact / Not Intact

Level 2  
 Pace Analytical  
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 UPPER MIDWEST REGION  
 MN: 612-607-1700 WI: 920-469-2436  
 MM 1549-0416-001

### CHAIN OF CUSTODY

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

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

Y/E	N	N	Y	N	N	N	N
Pick Letter	B	A	O	A	A	B	C
Analyses Requested	<i>BTEX 8260 EOP</i>	<i>PAH 8270</i>	<i>Metals 6020</i>	<i>Alkalinity 310.2</i>	<i>Sulfate 300.0</i>	<i>EOP Methane</i>	<i>Nitrate/Nitrite 353.2</i>

Quote #: 3400010643  
 Mail To Contact: Data@naturalrt.com  
 Mail To Company: Natural Resource Tech  
 Mail To Address: 234 W Florida St  
 Milwaukee, WI  
 Invoice To Contact: Accounts Payable  
 Invoice To Company: WPSC  
 Invoice To Address: PO Box 19800  
 Green Bay, WI  
 Invoice To Phone: 920-433-2929

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
<i>AL, Sb, Cu, Ni, Ag, V, Zn, Fe, Mn</i>		
<i>MS/MSD</i>		

Samples Hand Delivered To Lab

(Please Print Clearly)

Company Name: Natural Resource Tech  
 Branch/Location: Milwaukee, WI  
 Project Contact: Brian Hennings  
 Phone: 414-837-3524  
 Project Number: 1549  
 Project Name: Marinette Former MGP  
 Project State: WI  
 Sampled By (Print): Eric Plante  
 Sampled By (Sign): *Eric Plante*  
 PO #:   
 Regulatory Program:   
 Matrix Codes:   
 Matrix Codes: A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

Data Package Options (billable):  EPA Level III,  EPA Level IV  
 MS/MSD:  On your sample (billable),  NOT needed on your sample

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	041216001	4/12/16	1105	GW
002	041216002		1145	
003	041216003		1220	
004	041216004		1310	
005	041216005		1315	
006	041216006		1441	
007	041216007		1534	
008	041216008		1651	
009	041216009		1759	
010	041216010		1804	
011	041216011		1856	
012	041316012	4/13/16	0700	
013	041316013	4/13/16	0744	



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

### CHAIN OF CUSTODY

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

Y/N	N	N									
Filtered? (YES/NO)											
Preservation (CODE)*											
	N	N									
	B	B									
Analyses Requested	BTEX 8260	Methane 8015									

Quote #: 3400010643  
 Mail To Contact: Data@naturalrt.com  
 Mail To Company: Natural Resource Tech  
 Mail To Address: 234 W Florida St, Milwaukee, WI  
 Invoice To Contact: Accounts Payable  
 Invoice To Company: WPSG  
 Invoice To Address: PO Box 19800, Green Bay, WI  
 Invoice To Phone: 920-433-2929

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
6-40mlv <sup>B</sup> 2-100mlag <sup>A</sup>		3-250mlp <sup>KCD</sup>
MS/MSD 18-40mlv <sup>B</sup> 12-100mlag <sup>A</sup>		

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

Relinquished By: <i>Eric Plante</i>	Date/Time: 4/13/16 1255	Received By: <i>Susan Klyne</i>	Date/Time: 4/13/16 1255
Relinquished By:	Date/Time:	Received By: <i>Eric</i>	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 40130733  
 Receipt Temp: ROT<sup>e</sup>  
 Sample Receipt pH: 10 / Adjusted  
 Cooler Custody Seal Present / Not Present Intact / Not Intact

Samples Hand Delivered To Lab



(Please Print Clearly)

Level 2

UPPER MIDWEST REGION

Page 2 of 4

Company Name: Natural Resource Tech  
 Branch/Location: Milwaukee, WI  
 Project Contact: Brian Hennings  
 Phone: 414-837-3524  
 Project Number: 1549  
 Project Name: Marinette Farmer MGP  
 Project State: WI  
 Sampled By (Print): Eric Plante  
 Sampled By (Sign): *Eric Plante*  
 PO #: \_\_\_\_\_ Regulatory Program: \_\_\_\_\_



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

1549-0416-002

QC: AGC

Page 60 of 62

### CHAIN OF CUSTODY

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

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

Y/N	N	Y	N	N	N				
Pick Letter	A	O	A	A	C				
Analysis Requested	PAH 8270	Metals * 6030	Alkalinity 310.2	Sulfate 300	Nitrate/Nitrite 353.2				

Quote #: 3400010643  
 Mail To Contact: Data@naturalrt.com  
 Mail To Company: Natural Resource Tech  
 Mail To Address: 234 W Florida St Milwaukee, WI  
 Invoice To Contact: Accounts Payable  
 Invoice To Company: WPSC  
 Invoice To Address: PO Box 19800 Green Bay, WI  
 Invoice To Phone: \_\_\_\_\_  
 CLIENT COMMENTS: \*Al, Sb, Cu, Ni, Ag, V, Zn, Fe, Mn  
 LAB COMMENTS (Lab Use Only): \_\_\_\_\_  
 Profile #: \_\_\_\_\_

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
014	041316014	4/13/16	0834	GW
015	041316015	4/13/16	0918	GW
016	041316016	4/13/16	1005	GW
<del>_____</del>				

EDP 4/13/16

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

Relinquished By: <i>Eric Plante</i>	Date/Time: 4/13/16 1255
Relinquished By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____

Received By: <i>Sumantika</i>	Date/Time: 4/13/16 1255
Received By: <i>Paul</i>	Date/Time: _____
Received By: _____	Date/Time: _____
Received By: _____	Date/Time: _____
Received By: _____	Date/Time: _____

PACE Project No. 4030733  
 Receipt Temp: 20.1 °C  
 Sample Receipt pH: (OK) / Adjusted  
 Cooler Custody Seal Present / Not Present  
 Intact / Not Intact

Samples Hand delivered To Lab



Sample Condition Upon Receipt

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



Project # **WO#: 40130733**

Client Name: NRT



Courier:  Fed Ex  UPS  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 N/A Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: \_\_\_\_\_ Biological Tissue is Frozen:  yes

Temp Blank Present:  yes  no  no

Person examining contents:  
Date: 4/13/16  
Initials: h

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: <input checked="" type="checkbox"/> VOA coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>TZ</u> Lab Std #ID of preservative _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
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>357</u>		

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

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: 001 - 1 vial very little liquid MM 41316

Project Manager Review: [Signature] Date: 4-14-16

November 09, 2016

Brian Hennings  
NATURAL RESOURCE TECHNOLOGY  
234 W. Florida St, 5th Floor  
Milwaukee, WI 53204

RE: Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40140378

Dear Brian Hennings:

Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 2016. 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  
Project Manager

Enclosures

cc: NRT Data, Natural Resource Technologies



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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## CERTIFICATIONS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

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### 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

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40140378001	101816001	Water	10/18/16 06:53	10/19/16 10:27
40140378002	101816002	Water	10/18/16 07:44	10/19/16 10:27
40140378003	101816003	Water	10/18/16 08:21	10/19/16 10:27
40140378004	101816004	Water	10/18/16 09:00	10/19/16 10:27
40140378005	101816005	Water	10/18/16 09:43	10/19/16 10:27
40140378006	101816006	Water	10/18/16 09:48	10/19/16 10:27
40140378007	101816007	Water	10/18/16 10:42	10/19/16 10:27
40140378008	101816008	Water	10/18/16 11:20	10/19/16 10:27
40140378009	101816009	Water	10/18/16 12:00	10/19/16 10:27
40140378010	101816010	Water	10/18/16 13:15	10/19/16 10:27
40140378011	101816011	Water	10/18/16 13:45	10/19/16 10:27
40140378012	101816012	Water	10/18/16 14:40	10/19/16 10:27
40140378013	101816013	Water	10/18/16 15:14	10/19/16 10:27
40140378014	101816014	Water	10/18/16 15:57	10/19/16 10:27
40140378015	101816015	Water	10/18/16 16:02	10/19/16 10:27
40140378016	101816016	Water	10/18/16 16:25	10/19/16 10:27
40140378017	101816017	Water	10/18/16 17:07	10/19/16 10:27
40140378018	101816018	Water	10/18/16 17:47	10/19/16 10:27
40140378019	101916019	Water	10/19/16 06:55	10/19/16 10:27
40140378020	101916020	Water	10/19/16 07:45	10/19/16 10:27
40140378021	101916021	Water	10/19/16 08:15	10/19/16 10:27
40140378022	101916022	Water	10/19/16 00:00	10/19/16 10:27

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40140378001	101816001	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40140378002	101816002	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40140378003	101816003	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40140378004	101816004	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40140378005	101816005	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40140378006	101816006	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40140378007	101816007	EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	JMN	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	21	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
40140378008	101816008	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	21	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
40140378009	101816009	EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	JMN	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	21	PASI-G
		EPA 8260	HNW	9	PASI-G
40140378010	101816010	EPA 300.0	JMN	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	21	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40140378011	101816011	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 8260	HNW	9	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40140378012	101816012	EPA 300.0	JMN	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	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
40140378013	101816013	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	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40140378014	101816014	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	21	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
40140378015	101816015	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
40140378016	101816016	EPA 6020	DS1	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 310.2	DAW	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40140378017	101816017	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	21	PASI-G
		EPA 8260	HNW	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40140378018	101816018	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	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40140378019	101916019	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	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40140378020	101916020	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	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	JMN	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40140378021	101916021	EPA 353.2	DAW	1	PASI-G
		EPA 8260	LAP	9	PASI-G
40140378022	101916022	EPA 8260	LAP	9	PASI-G

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

---

**Method:** EPA 8015B Modified

**Description:** Methane, Ethane, Ethene GCV

**Client:** Natural Resources Technologies

**Date:** November 09, 2016

**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:**

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40140378

---

**Method:** EPA 6020  
**Description:** 6020 MET ICPMS, Dissolved  
**Client:** Natural Resources Technologies  
**Date:** November 09, 2016

**General Information:**

20 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

---

**Method:** EPA 8270 by HVI

**Description:** 8270 MSSV PAH by HVI

**Client:** Natural Resources Technologies

**Date:** November 09, 2016

### 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.

### Method Blank:

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

QC Batch: 238856

B: Analyte was detected in the associated method blank.

- BLANK for HBN 238856 [OEXT/324 (Lab ID: 1415067)]
- Pyrene

QC Batch: 239020

B: Analyte was detected in the associated method blank.

- BLANK for HBN 239020 [OEXT/324 (Lab ID: 1416488)]
- Phenanthrene
- Pyrene

QC Batch: 239153

B: Analyte was detected in the associated method blank.

- BLANK for HBN 239153 [OEXT/324 (Lab ID: 1416990)]
- Pyrene

### Laboratory Control Spike:

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

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

---

**Method:** EPA 8270 by HVI

**Description:** 8270 MSSV PAH by HVI

**Client:** Natural Resources Technologies

**Date:** November 09, 2016

### Matrix Spikes:

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

QC Batch: 239153

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

### Additional Comments:

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40140378

---

**Method:** EPA 8260  
**Description:** 8260 MSV UST  
**Client:** Natural Resources Technologies  
**Date:** November 09, 2016

### General Information:

22 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: 238706

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

- 101816014 (Lab ID: 40140378014)
  - Dibromofluoromethane (S)
- 101816015 (Lab ID: 40140378015)
  - Dibromofluoromethane (S)
- 101816017 (Lab ID: 40140378017)
  - Dibromofluoromethane (S)

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40140378

---

**Method:** EPA 300.0  
**Description:** 300.0 IC Anions 28 Days  
**Client:** Natural Resources Technologies  
**Date:** November 09, 2016

### General Information:

20 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.

### Additional Comments:

Analyte Comments:

QC Batch: 239086

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

- 101816001 (Lab ID: 40140378001)
  - Sulfate

QC Batch: 239087

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

- 101816013 (Lab ID: 40140378013)
  - Sulfate
- 101816014 (Lab ID: 40140378014)
  - Sulfate
- 101816015 (Lab ID: 40140378015)
  - Sulfate
- 101816017 (Lab ID: 40140378017)
  - Sulfate
- 101816018 (Lab ID: 40140378018)
  - Sulfate
- 101916019 (Lab ID: 40140378019)
  - Sulfate
- 101916020 (Lab ID: 40140378020)
  - Sulfate

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40140378

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**Method:** EPA 310.2  
**Description:** 310.2 Alkalinity  
**Client:** Natural Resources Technologies  
**Date:** November 09, 2016

### General Information:

20 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: 238916

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40140378010,40140378020

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

- MS (Lab ID: 1415584)
  - Alkalinity, Total as CaCO<sub>3</sub>
- MSD (Lab ID: 1415585)
  - Alkalinity, Total as CaCO<sub>3</sub>

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

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**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.

**Client:** Natural Resources Technologies

**Date:** November 09, 2016

**General Information:**

20 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: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816001**      **Lab ID: 40140378001**      Collected: 10/18/16 06:53      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	7330	ug/L	140	68.5	50		10/20/16 11:51	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 07:19	7429-90-5	
Antimony, Dissolved	0.29J	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 07:19	7440-36-0	
Copper, Dissolved	0.34J	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 07:19	7440-50-8	
Iron, Dissolved	9970	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 07:19	7439-89-6	
Manganese, Dissolved	659	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 07:19	7439-96-5	
Nickel, Dissolved	1.1	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 07:19	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 07:19	7440-22-4	
Vanadium, Dissolved	1.2	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 07:19	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 07:19	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	0.24	ug/L	0.029	0.0058	1	10/21/16 08:29	10/26/16 19:36	83-32-9	
Acenaphthylene	0.016J	ug/L	0.024	0.0047	1	10/21/16 08:29	10/26/16 19:36	208-96-8	
Anthracene	0.043J	ug/L	0.050	0.010	1	10/21/16 08:29	10/26/16 19:36	120-12-7	
Benzo(a)anthracene	<0.0072	ug/L	0.036	0.0072	1	10/21/16 08:29	10/26/16 19:36	56-55-3	
Benzo(a)pyrene	<0.010	ug/L	0.050	0.010	1	10/21/16 08:29	10/26/16 19:36	50-32-8	
Benzo(b)fluoranthene	0.013J	ug/L	0.027	0.0055	1	10/21/16 08:29	10/26/16 19:36	205-99-2	
Benzo(g,h,i)perylene	0.0073J	ug/L	0.032	0.0065	1	10/21/16 08:29	10/26/16 19:36	191-24-2	
Benzo(k)fluoranthene	<0.0072	ug/L	0.036	0.0072	1	10/21/16 08:29	10/26/16 19:36	207-08-9	
Chrysene	0.019J	ug/L	0.062	0.012	1	10/21/16 08:29	10/26/16 19:36	218-01-9	
Dibenz(a,h)anthracene	<0.0095	ug/L	0.048	0.0095	1	10/21/16 08:29	10/26/16 19:36	53-70-3	
Fluoranthene	0.095	ug/L	0.051	0.010	1	10/21/16 08:29	10/26/16 19:36	206-44-0	
Fluorene	0.16	ug/L	0.038	0.0076	1	10/21/16 08:29	10/26/16 19:36	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.084	0.017	1	10/21/16 08:29	10/26/16 19:36	193-39-5	
1-Methylnaphthalene	0.039	ug/L	0.028	0.0056	1	10/21/16 08:29	10/26/16 19:36	90-12-0	
2-Methylnaphthalene	0.020J	ug/L	0.023	0.0047	1	10/21/16 08:29	10/26/16 19:36	91-57-6	
Naphthalene	0.046J	ug/L	0.087	0.017	1	10/21/16 08:29	10/26/16 19:36	91-20-3	
Phenanthrene	0.073	ug/L	0.066	0.013	1	10/21/16 08:29	10/26/16 19:36	85-01-8	
Pyrene	0.080	ug/L	0.036	0.0073	1	10/21/16 08:29	10/26/16 19:36	129-00-0	B
Total PAHs	0.89	ug/L			1	10/21/16 08:29	10/26/16 19:36		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	49	%	25-130		1	10/21/16 08:29	10/26/16 19:36	321-60-8	
Terphenyl-d14 (S)	79	%	13-158		1	10/21/16 08:29	10/26/16 19:36	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/24/16 09:30	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/24/16 09:30	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/24/16 09:30	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/24/16 09:30	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/24/16 09:30	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/24/16 09:30	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	99	%	70-130		1		10/24/16 09:30	1868-53-7	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Project No.: 40140378

**Sample: 101816001**      **Lab ID: 40140378001**      Collected: 10/18/16 06:53      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<b>Surrogates</b>									
Toluene-d8 (S)	93	%	70-130		1		10/24/16 09:30	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		10/24/16 09:30	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<10.0	mg/L	30.0	10.0	10		11/05/16 01:32	14808-79-8	D3
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	388	mg/L	117	35.2	5		10/21/16 14:09		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		10/24/16 11:58		

**Sample: 101816002**      **Lab ID: 40140378002**      Collected: 10/18/16 07:44      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	1.9J	ug/L	2.8	1.4	1		10/20/16 08:18	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 07:33	7429-90-5	
Antimony, Dissolved	0.10J	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 07:33	7440-36-0	
Copper, Dissolved	3.6	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 07:33	7440-50-8	
Iron, Dissolved	246J	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 07:33	7439-89-6	
Manganese, Dissolved	0.69J	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 07:33	7439-96-5	
Nickel, Dissolved	1.3	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 07:33	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 07:33	7440-22-4	
Vanadium, Dissolved	0.28J	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 07:33	7440-62-2	
Zinc, Dissolved	7.7J	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 07:33	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<0.0060	ug/L	0.030	0.0060	1	10/21/16 08:29	10/26/16 19:55	83-32-9	
Acenaphthylene	<0.0049	ug/L	0.024	0.0049	1	10/21/16 08:29	10/26/16 19:55	208-96-8	
Anthracene	<0.010	ug/L	0.051	0.010	1	10/21/16 08:29	10/26/16 19:55	120-12-7	
Benzo(a)anthracene	<0.0074	ug/L	0.037	0.0074	1	10/21/16 08:29	10/26/16 19:55	56-55-3	
Benzo(a)pyrene	<0.010	ug/L	0.052	0.010	1	10/21/16 08:29	10/26/16 19:55	50-32-8	
Benzo(b)fluoranthene	<0.0056	ug/L	0.028	0.0056	1	10/21/16 08:29	10/26/16 19:55	205-99-2	
Benzo(g,h,i)perylene	<0.0066	ug/L	0.033	0.0066	1	10/21/16 08:29	10/26/16 19:55	191-24-2	
Benzo(k)fluoranthene	<0.0074	ug/L	0.037	0.0074	1	10/21/16 08:29	10/26/16 19:55	207-08-9	
Chrysene	<0.013	ug/L	0.064	0.013	1	10/21/16 08:29	10/26/16 19:55	218-01-9	
Dibenz(a,h)anthracene	<0.0098	ug/L	0.049	0.0098	1	10/21/16 08:29	10/26/16 19:55	53-70-3	
Fluoranthene	<0.010	ug/L	0.052	0.010	1	10/21/16 08:29	10/26/16 19:55	206-44-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

Sample: 101816002 Lab ID: 40140378002 Collected: 10/18/16 07:44 Received: 10/19/16 10:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Fluorene	<0.0078	ug/L	0.039	0.0078	1	10/21/16 08:29	10/26/16 19:55	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.086	0.017	1	10/21/16 08:29	10/26/16 19:55	193-39-5	
1-Methylnaphthalene	<0.0058	ug/L	0.029	0.0058	1	10/21/16 08:29	10/26/16 19:55	90-12-0	
2-Methylnaphthalene	<0.0048	ug/L	0.024	0.0048	1	10/21/16 08:29	10/26/16 19:55	91-57-6	
Naphthalene	<0.018	ug/L	0.090	0.018	1	10/21/16 08:29	10/26/16 19:55	91-20-3	
Phenanthrene	<0.014	ug/L	0.068	0.014	1	10/21/16 08:29	10/26/16 19:55	85-01-8	
Pyrene	<0.0075	ug/L	0.038	0.0075	1	10/21/16 08:29	10/26/16 19:55	129-00-0	
Total PAHs	0.044	ug/L			1	10/21/16 08:29	10/26/16 19:55		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	50	%	25-130		1	10/21/16 08:29	10/26/16 19:55	321-60-8	
Terphenyl-d14 (S)	91	%	13-158		1	10/21/16 08:29	10/26/16 19:55	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/24/16 09:52	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/24/16 09:52	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/24/16 09:52	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/24/16 09:52	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/24/16 09:52	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/24/16 09:52	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	104	%	70-130		1		10/24/16 09:52	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		10/24/16 09:52	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/24/16 09:52	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	159	mg/L	15.0	5.0	5		11/07/16 12:32	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	298	mg/L	23.5	7.0	1		10/21/16 13:44		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	12.4	mg/L	1.2	0.48	5		10/24/16 13:01		

Sample: 101816003 Lab ID: 40140378003 Collected: 10/18/16 08:21 Received: 10/19/16 10:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	23.9	ug/L	2.8	1.4	1		10/20/16 08:25	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 07:39	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 07:39	7440-36-0	
Copper, Dissolved	2.2	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 07:39	7440-50-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816003**      **Lab ID: 40140378003**      Collected: 10/18/16 08:21      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Iron, Dissolved	<b>1090</b>	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 07:39	7439-89-6	
Manganese, Dissolved	<b>487</b>	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 07:39	7439-96-5	
Nickel, Dissolved	<b>1.4</b>	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 07:39	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 07:39	7440-22-4	
Vanadium, Dissolved	<b>1.1</b>	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 07:39	7440-62-2	
Zinc, Dissolved	<b>4.6J</b>	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 07:39	7440-66-6	
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0060</b>	ug/L	0.030	0.0060	1	10/21/16 08:29	10/26/16 20:14	83-32-9	
Acenaphthylene	<b>0.0091J</b>	ug/L	0.025	0.0049	1	10/21/16 08:29	10/26/16 20:14	208-96-8	
Anthracene	<b>&lt;0.010</b>	ug/L	0.052	0.010	1	10/21/16 08:29	10/26/16 20:14	120-12-7	
Benzo(a)anthracene	<b>0.013J</b>	ug/L	0.037	0.0075	1	10/21/16 08:29	10/26/16 20:14	56-55-3	
Benzo(a)pyrene	<b>&lt;0.010</b>	ug/L	0.052	0.010	1	10/21/16 08:29	10/26/16 20:14	50-32-8	
Benzo(b)fluoranthene	<b>0.0090J</b>	ug/L	0.028	0.0057	1	10/21/16 08:29	10/26/16 20:14	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0067</b>	ug/L	0.034	0.0067	1	10/21/16 08:29	10/26/16 20:14	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0075</b>	ug/L	0.037	0.0075	1	10/21/16 08:29	10/26/16 20:14	207-08-9	
Chrysene	<b>0.016J</b>	ug/L	0.065	0.013	1	10/21/16 08:29	10/26/16 20:14	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0099</b>	ug/L	0.050	0.0099	1	10/21/16 08:29	10/26/16 20:14	53-70-3	
Fluoranthene	<b>0.025J</b>	ug/L	0.053	0.011	1	10/21/16 08:29	10/26/16 20:14	206-44-0	
Fluorene	<b>&lt;0.0079</b>	ug/L	0.039	0.0079	1	10/21/16 08:29	10/26/16 20:14	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.017</b>	ug/L	0.087	0.017	1	10/21/16 08:29	10/26/16 20:14	193-39-5	
1-Methylnaphthalene	<b>&lt;0.0058</b>	ug/L	0.029	0.0058	1	10/21/16 08:29	10/26/16 20:14	90-12-0	
2-Methylnaphthalene	<b>&lt;0.0049</b>	ug/L	0.024	0.0049	1	10/21/16 08:29	10/26/16 20:14	91-57-6	
Naphthalene	<b>&lt;0.018</b>	ug/L	0.091	0.018	1	10/21/16 08:29	10/26/16 20:14	91-20-3	
Phenanthrene	<b>0.022J</b>	ug/L	0.068	0.014	1	10/21/16 08:29	10/26/16 20:14	85-01-8	
Pyrene	<b>0.031J</b>	ug/L	0.038	0.0076	1	10/21/16 08:29	10/26/16 20:14	129-00-0	B
Total PAHs	<b>0.17</b>	ug/L			1	10/21/16 08:29	10/26/16 20:14		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	46	%	25-130		1	10/21/16 08:29	10/26/16 20:14	321-60-8	
Terphenyl-d14 (S)	93	%	13-158		1	10/21/16 08:29	10/26/16 20:14	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/24/16 12:09	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/24/16 12:09	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/24/16 12:09	108-88-3	
Xylene (Total)	<b>&lt;1.5</b>	ug/L	3.0	1.5	1		10/24/16 12:09	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/24/16 12:09	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/24/16 12:09	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	99	%	70-130		1		10/24/16 12:09	1868-53-7	
Toluene-d8 (S)	84	%	70-130		1		10/24/16 12:09	2037-26-5	
4-Bromofluorobenzene (S)	83	%	70-130		1		10/24/16 12:09	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>61.3</b>	mg/L	15.0	5.0	5		11/07/16 13:05	14808-79-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Project No.: 40140378

**Sample: 101816003**      **Lab ID: 40140378003**      Collected: 10/18/16 08:21      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>265</b>	mg/L	23.5	7.0	1		10/21/16 13:44		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		10/24/16 12:06		

**Sample: 101816004**      **Lab ID: 40140378004**      Collected: 10/18/16 09:00      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>&lt;1.4</b>	ug/L	2.8	1.4	1		10/20/16 08:32	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 07:46	7429-90-5	
Antimony, Dissolved	<b>0.40J</b>	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 07:46	7440-36-0	
Copper, Dissolved	<b>6.5</b>	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 07:46	7440-50-8	
Iron, Dissolved	<b>21.4J</b>	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 07:46	7439-89-6	
Manganese, Dissolved	<b>1.2</b>	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 07:46	7439-96-5	
Nickel, Dissolved	<b>2.6</b>	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 07:46	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 07:46	7440-22-4	
Vanadium, Dissolved	<b>0.42J</b>	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 07:46	7440-62-2	
Zinc, Dissolved	<b>7.7J</b>	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 07:46	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0058</b>	ug/L	0.029	0.0058	1	10/21/16 08:29	10/26/16 20:32	83-32-9	
Acenaphthylene	<b>&lt;0.0048</b>	ug/L	0.024	0.0048	1	10/21/16 08:29	10/26/16 20:32	208-96-8	
Anthracene	<b>&lt;0.010</b>	ug/L	0.050	0.010	1	10/21/16 08:29	10/26/16 20:32	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0073</b>	ug/L	0.036	0.0073	1	10/21/16 08:29	10/26/16 20:32	56-55-3	
Benzo(a)pyrene	<b>&lt;0.010</b>	ug/L	0.051	0.010	1	10/21/16 08:29	10/26/16 20:32	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0055</b>	ug/L	0.028	0.0055	1	10/21/16 08:29	10/26/16 20:32	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0065</b>	ug/L	0.033	0.0065	1	10/21/16 08:29	10/26/16 20:32	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0073</b>	ug/L	0.036	0.0073	1	10/21/16 08:29	10/26/16 20:32	207-08-9	
Chrysene	<b>&lt;0.013</b>	ug/L	0.063	0.013	1	10/21/16 08:29	10/26/16 20:32	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0096</b>	ug/L	0.048	0.0096	1	10/21/16 08:29	10/26/16 20:32	53-70-3	
Fluoranthene	<b>&lt;0.010</b>	ug/L	0.051	0.010	1	10/21/16 08:29	10/26/16 20:32	206-44-0	
Fluorene	<b>&lt;0.0077</b>	ug/L	0.038	0.0077	1	10/21/16 08:29	10/26/16 20:32	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.017</b>	ug/L	0.085	0.017	1	10/21/16 08:29	10/26/16 20:32	193-39-5	
1-Methylnaphthalene	<b>&lt;0.0057</b>	ug/L	0.028	0.0057	1	10/21/16 08:29	10/26/16 20:32	90-12-0	
2-Methylnaphthalene	<b>0.0052J</b>	ug/L	0.024	0.0047	1	10/21/16 08:29	10/26/16 20:32	91-57-6	
Naphthalene	<b>0.019J</b>	ug/L	0.088	0.018	1	10/21/16 08:29	10/26/16 20:32	91-20-3	
Phenanthrene	<b>&lt;0.013</b>	ug/L	0.066	0.013	1	10/21/16 08:29	10/26/16 20:32	85-01-8	
Pyrene	<b>&lt;0.0074</b>	ug/L	0.037	0.0074	1	10/21/16 08:29	10/26/16 20:32	129-00-0	
Total PAHs	<b>0.044</b>	ug/L			1	10/21/16 08:29	10/26/16 20:32		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816004**      **Lab ID: 40140378004**      Collected: 10/18/16 09:00      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	51	%	25-130		1	10/21/16 08:29	10/26/16 20:32	321-60-8	
Terphenyl-d14 (S)	96	%	13-158		1	10/21/16 08:29	10/26/16 20:32	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/24/16 12:32	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/24/16 12:32	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/24/16 12:32	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/24/16 12:32	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/24/16 12:32	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/24/16 12:32	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	97	%	70-130		1		10/24/16 12:32	1868-53-7	
Toluene-d8 (S)	84	%	70-130		1		10/24/16 12:32	2037-26-5	
4-Bromofluorobenzene (S)	81	%	70-130		1		10/24/16 12:32	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	60.7	mg/L	15.0	5.0	5		11/07/16 13:50	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	290	mg/L	23.5	7.0	1		10/21/16 13:45		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	4.3	mg/L	0.25	0.095	1		10/24/16 12:07		

**Sample: 101816005**      **Lab ID: 40140378005**      Collected: 10/18/16 09:43      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	159	ug/L	2.8	1.4	1		10/20/16 08:39	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 07:53	7429-90-5	
Antimony, Dissolved	2.8	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 07:53	7440-36-0	
Copper, Dissolved	1.9	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 07:53	7440-50-8	
Iron, Dissolved	271	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 07:53	7439-89-6	
Manganese, Dissolved	1960	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 07:53	7439-96-5	
Nickel, Dissolved	4.3	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 07:53	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 07:53	7440-22-4	
Vanadium, Dissolved	2.0	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 07:53	7440-62-2	
Zinc, Dissolved	4.0J	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 07:53	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816005**      **Lab ID: 40140378005**      Collected: 10/18/16 09:43      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510							
Acenaphthene	<b>0.081</b>	ug/L	0.029	0.0059	1	10/21/16 08:29	10/26/16 20:50	83-32-9	
Acenaphthylene	<b>0.062</b>	ug/L	0.024	0.0048	1	10/21/16 08:29	10/26/16 20:50	208-96-8	
Anthracene	<b>0.089</b>	ug/L	0.051	0.010	1	10/21/16 08:29	10/26/16 20:50	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0073</b>	ug/L	0.037	0.0073	1	10/21/16 08:29	10/26/16 20:50	56-55-3	
Benzo(a)pyrene	<b>&lt;0.010</b>	ug/L	0.051	0.010	1	10/21/16 08:29	10/26/16 20:50	50-32-8	
Benzo(b)fluoranthene	<b>0.0068J</b>	ug/L	0.028	0.0056	1	10/21/16 08:29	10/26/16 20:50	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0066</b>	ug/L	0.033	0.0066	1	10/21/16 08:29	10/26/16 20:50	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0073</b>	ug/L	0.037	0.0073	1	10/21/16 08:29	10/26/16 20:50	207-08-9	
Chrysene	<b>&lt;0.013</b>	ug/L	0.063	0.013	1	10/21/16 08:29	10/26/16 20:50	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0097</b>	ug/L	0.049	0.0097	1	10/21/16 08:29	10/26/16 20:50	53-70-3	
Fluoranthene	<b>0.018J</b>	ug/L	0.052	0.010	1	10/21/16 08:29	10/26/16 20:50	206-44-0	
Fluorene	<b>&lt;0.0077</b>	ug/L	0.039	0.0077	1	10/21/16 08:29	10/26/16 20:50	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.017</b>	ug/L	0.086	0.017	1	10/21/16 08:29	10/26/16 20:50	193-39-5	
1-Methylnaphthalene	<b>0.046</b>	ug/L	0.029	0.0057	1	10/21/16 08:29	10/26/16 20:50	90-12-0	
2-Methylnaphthalene	<b>&lt;0.0048</b>	ug/L	0.024	0.0048	1	10/21/16 08:29	10/26/16 20:50	91-57-6	
Naphthalene	<b>0.063J</b>	ug/L	0.089	0.018	1	10/21/16 08:29	10/26/16 20:50	91-20-3	
Phenanthrene	<b>&lt;0.013</b>	ug/L	0.067	0.013	1	10/21/16 08:29	10/26/16 20:50	85-01-8	
Pyrene	<b>0.015J</b>	ug/L	0.037	0.0074	1	10/21/16 08:29	10/26/16 20:50	129-00-0	B
Total PAHs	<b>0.41</b>	ug/L			1	10/21/16 08:29	10/26/16 20:50		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	49	%	25-130		1	10/21/16 08:29	10/26/16 20:50	321-60-8	
Terphenyl-d14 (S)	89	%	13-158		1	10/21/16 08:29	10/26/16 20:50	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<b>14.1</b>	ug/L	1.0	0.50	1		10/24/16 12:55	71-43-2	
Ethylbenzene	<b>1.3</b>	ug/L	1.0	0.50	1		10/24/16 12:55	100-41-4	
Toluene	<b>0.64J</b>	ug/L	1.0	0.50	1		10/24/16 12:55	108-88-3	
Xylene (Total)	<b>1.8J</b>	ug/L	3.0	1.5	1		10/24/16 12:55	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/24/16 12:55	179601-23-1	
o-Xylene	<b>1.2</b>	ug/L	1.0	0.50	1		10/24/16 12:55	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	104	%	70-130		1		10/24/16 12:55	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		10/24/16 12:55	2037-26-5	
4-Bromofluorobenzene (S)	84	%	70-130		1		10/24/16 12:55	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<b>89.8</b>	mg/L	15.0	5.0	5		11/06/16 19:12	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	<b>324</b>	mg/L	117	35.2	5		10/21/16 14:10		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<b>0.096J</b>	mg/L	0.25	0.095	1		10/24/16 12:08		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816006**      **Lab ID: 40140378006**      Collected: 10/18/16 09:48      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>200</b>	ug/L	2.8	1.4	1		10/20/16 08:46	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 08:13	7429-90-5	
Antimony, Dissolved	<b>3.0</b>	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 08:13	7440-36-0	
Copper, Dissolved	<b>1.6</b>	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 08:13	7440-50-8	
Iron, Dissolved	<b>280</b>	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 08:13	7439-89-6	
Manganese, Dissolved	<b>2040</b>	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 08:13	7439-96-5	
Nickel, Dissolved	<b>3.6</b>	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 08:13	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 08:13	7440-22-4	
Vanadium, Dissolved	<b>2.1</b>	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 08:13	7440-62-2	
Zinc, Dissolved	<b>&lt;3.1</b>	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 08:13	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>0.072</b>	ug/L	0.030	0.0060	1	10/21/16 08:29	10/26/16 21:09	83-32-9	
Acenaphthylene	<b>0.056</b>	ug/L	0.024	0.0049	1	10/21/16 08:29	10/26/16 21:09	208-96-8	
Anthracene	<b>0.094</b>	ug/L	0.051	0.010	1	10/21/16 08:29	10/26/16 21:09	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0074</b>	ug/L	0.037	0.0074	1	10/21/16 08:29	10/26/16 21:09	56-55-3	
Benzo(a)pyrene	<b>&lt;0.010</b>	ug/L	0.052	0.010	1	10/21/16 08:29	10/26/16 21:09	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0056</b>	ug/L	0.028	0.0056	1	10/21/16 08:29	10/26/16 21:09	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0066</b>	ug/L	0.033	0.0066	1	10/21/16 08:29	10/26/16 21:09	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0074</b>	ug/L	0.037	0.0074	1	10/21/16 08:29	10/26/16 21:09	207-08-9	
Chrysene	<b>&lt;0.013</b>	ug/L	0.064	0.013	1	10/21/16 08:29	10/26/16 21:09	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0098</b>	ug/L	0.049	0.0098	1	10/21/16 08:29	10/26/16 21:09	53-70-3	
Fluoranthene	<b>0.015J</b>	ug/L	0.052	0.010	1	10/21/16 08:29	10/26/16 21:09	206-44-0	
Fluorene	<b>&lt;0.0078</b>	ug/L	0.039	0.0078	1	10/21/16 08:29	10/26/16 21:09	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.017</b>	ug/L	0.086	0.017	1	10/21/16 08:29	10/26/16 21:09	193-39-5	
1-Methylnaphthalene	<b>0.036</b>	ug/L	0.029	0.0058	1	10/21/16 08:29	10/26/16 21:09	90-12-0	
2-Methylnaphthalene	<b>&lt;0.0048</b>	ug/L	0.024	0.0048	1	10/21/16 08:29	10/26/16 21:09	91-57-6	
Naphthalene	<b>0.041J</b>	ug/L	0.090	0.018	1	10/21/16 08:29	10/26/16 21:09	91-20-3	
Phenanthrene	<b>&lt;0.014</b>	ug/L	0.068	0.014	1	10/21/16 08:29	10/26/16 21:09	85-01-8	
Pyrene	<b>0.0088J</b>	ug/L	0.038	0.0075	1	10/21/16 08:29	10/26/16 21:09	129-00-0	B
Total PAHs	<b>0.34</b>	ug/L			1	10/21/16 08:29	10/26/16 21:09		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	50	%	25-130		1	10/21/16 08:29	10/26/16 21:09	321-60-8	
Terphenyl-d14 (S)	86	%	13-158		1	10/21/16 08:29	10/26/16 21:09	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>12.4</b>	ug/L	1.0	0.50	1		10/24/16 13:17	71-43-2	
Ethylbenzene	<b>1.2</b>	ug/L	1.0	0.50	1		10/24/16 13:17	100-41-4	
Toluene	<b>0.53J</b>	ug/L	1.0	0.50	1		10/24/16 13:17	108-88-3	
Xylene (Total)	<b>1.7J</b>	ug/L	3.0	1.5	1		10/24/16 13:17	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/24/16 13:17	179601-23-1	
o-Xylene	<b>1.2</b>	ug/L	1.0	0.50	1		10/24/16 13:17	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	102	%	70-130		1		10/24/16 13:17	1868-53-7	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816006**      **Lab ID: 40140378006**      Collected: 10/18/16 09:48      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	84	%	70-130		1		10/24/16 13:17	2037-26-5	
4-Bromofluorobenzene (S)	84	%	70-130		1		10/24/16 13:17	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>90.6</b>	mg/L	15.0	5.0	5		11/06/16 19:23	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>431</b>	mg/L	117	35.2	5		10/21/16 14:12		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>0.10J</b>	mg/L	0.25	0.095	1		10/24/16 12:08		

**Sample: 101816007**      **Lab ID: 40140378007**      Collected: 10/18/16 10:42      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>671</b>	ug/L	28.0	13.7	10		10/20/16 11:57	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 08:20	7429-90-5	
Antimony, Dissolved	<b>0.32J</b>	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 08:20	7440-36-0	
Copper, Dissolved	<b>1.7</b>	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 08:20	7440-50-8	
Iron, Dissolved	<b>8850</b>	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 08:20	7439-89-6	
Manganese, Dissolved	<b>1240</b>	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 08:20	7439-96-5	
Nickel, Dissolved	<b>3.1</b>	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 08:20	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 08:20	7440-22-4	
Vanadium, Dissolved	<b>1.2</b>	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 08:20	7440-62-2	
Zinc, Dissolved	<b>3.2J</b>	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 08:20	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>0.062</b>	ug/L	0.029	0.0059	1	10/24/16 12:00	10/28/16 17:21	83-32-9	
Acenaphthylene	<b>0.0076J</b>	ug/L	0.024	0.0048	1	10/24/16 12:00	10/28/16 17:21	208-96-8	
Anthracene	<b>0.017J</b>	ug/L	0.051	0.010	1	10/24/16 12:00	10/28/16 17:21	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0073</b>	ug/L	0.037	0.0073	1	10/24/16 12:00	10/28/16 17:21	56-55-3	
Benzo(a)pyrene	<b>&lt;0.010</b>	ug/L	0.051	0.010	1	10/24/16 12:00	10/28/16 17:21	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0056</b>	ug/L	0.028	0.0056	1	10/24/16 12:00	10/28/16 17:21	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0066</b>	ug/L	0.033	0.0066	1	10/24/16 12:00	10/28/16 17:21	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0073</b>	ug/L	0.037	0.0073	1	10/24/16 12:00	10/28/16 17:21	207-08-9	
Chrysene	<b>&lt;0.013</b>	ug/L	0.063	0.013	1	10/24/16 12:00	10/28/16 17:21	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0097</b>	ug/L	0.049	0.0097	1	10/24/16 12:00	10/28/16 17:21	53-70-3	
Fluoranthene	<b>&lt;0.010</b>	ug/L	0.052	0.010	1	10/24/16 12:00	10/28/16 17:21	206-44-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816007**      **Lab ID: 40140378007**      Collected: 10/18/16 10:42      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Fluorene	<0.0077	ug/L	0.039	0.0077	1	10/24/16 12:00	10/28/16 17:21	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.086	0.017	1	10/24/16 12:00	10/28/16 17:21	193-39-5	
1-Methylnaphthalene	<0.0057	ug/L	0.029	0.0057	1	10/24/16 12:00	10/28/16 17:21	90-12-0	
2-Methylnaphthalene	0.0051J	ug/L	0.024	0.0048	1	10/24/16 12:00	10/28/16 17:21	91-57-6	
Naphthalene	<0.018	ug/L	0.089	0.018	1	10/24/16 12:00	10/28/16 17:21	91-20-3	
Phenanthrene	<0.013	ug/L	0.067	0.013	1	10/24/16 12:00	10/28/16 17:21	85-01-8	
Pyrene	0.028J	ug/L	0.037	0.0074	1	10/24/16 12:00	10/28/16 17:21	129-00-0	B
Total PAHs	0.16	ug/L			1	10/24/16 12:00	10/28/16 17:21		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	30	%	25-130		1	10/24/16 12:00	10/28/16 17:21	321-60-8	
Terphenyl-d14 (S)	53	%	13-158		1	10/24/16 12:00	10/28/16 17:21	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/24/16 13:39	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/24/16 13:39	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/24/16 13:39	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/24/16 13:39	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/24/16 13:39	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/24/16 13:39	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	105	%	70-130		1		10/24/16 13:39	1868-53-7	
Toluene-d8 (S)	81	%	70-130		1		10/24/16 13:39	2037-26-5	
4-Bromofluorobenzene (S)	83	%	70-130		1		10/24/16 13:39	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	27.5	mg/L	15.0	5.0	5		11/06/16 19:34	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	510	mg/L	117	35.2	5		10/21/16 14:13		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.19J	mg/L	0.25	0.095	1		10/24/16 12:09		

**Sample: 101816008**      **Lab ID: 40140378008**      Collected: 10/18/16 11:20      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	3050	ug/L	70.0	34.2	25		10/20/16 12:04	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 08:27	7429-90-5	
Antimony, Dissolved	0.29J	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 08:27	7440-36-0	
Copper, Dissolved	1.1	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 08:27	7440-50-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Sample Project No.: 40140378

**Sample: 101816008**      **Lab ID: 40140378008**      Collected: 10/18/16 11:20      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Iron, Dissolved	<b>11800</b>	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 08:27	7439-89-6	
Manganese, Dissolved	<b>721</b>	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 08:27	7439-96-5	
Nickel, Dissolved	<b>7.1</b>	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 08:27	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 08:27	7440-22-4	
Vanadium, Dissolved	<b>3.9</b>	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 08:27	7440-62-2	
Zinc, Dissolved	<b>6.6J</b>	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 08:27	7440-66-6	
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<b>0.13</b>	ug/L	0.030	0.0060	1	10/24/16 12:00	10/28/16 17:40	83-32-9	
Acenaphthylene	<b>0.0065J</b>	ug/L	0.025	0.0049	1	10/24/16 12:00	10/28/16 17:40	208-96-8	
Anthracene	<b>0.034J</b>	ug/L	0.052	0.010	1	10/24/16 12:00	10/28/16 17:40	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0075</b>	ug/L	0.037	0.0075	1	10/24/16 12:00	10/28/16 17:40	56-55-3	
Benzo(a)pyrene	<b>&lt;0.010</b>	ug/L	0.052	0.010	1	10/24/16 12:00	10/28/16 17:40	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0057</b>	ug/L	0.028	0.0057	1	10/24/16 12:00	10/28/16 17:40	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0067</b>	ug/L	0.034	0.0067	1	10/24/16 12:00	10/28/16 17:40	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0075</b>	ug/L	0.037	0.0075	1	10/24/16 12:00	10/28/16 17:40	207-08-9	
Chrysene	<b>&lt;0.013</b>	ug/L	0.065	0.013	1	10/24/16 12:00	10/28/16 17:40	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0099</b>	ug/L	0.050	0.0099	1	10/24/16 12:00	10/28/16 17:40	53-70-3	
Fluoranthene	<b>0.028J</b>	ug/L	0.053	0.011	1	10/24/16 12:00	10/28/16 17:40	206-44-0	
Fluorene	<b>0.038J</b>	ug/L	0.039	0.0079	1	10/24/16 12:00	10/28/16 17:40	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.017</b>	ug/L	0.087	0.017	1	10/24/16 12:00	10/28/16 17:40	193-39-5	
1-Methylnaphthalene	<b>0.023J</b>	ug/L	0.029	0.0058	1	10/24/16 12:00	10/28/16 17:40	90-12-0	
2-Methylnaphthalene	<b>0.0098J</b>	ug/L	0.024	0.0049	1	10/24/16 12:00	10/28/16 17:40	91-57-6	
Naphthalene	<b>0.092</b>	ug/L	0.091	0.018	1	10/24/16 12:00	10/28/16 17:40	91-20-3	
Phenanthrene	<b>0.019J</b>	ug/L	0.068	0.014	1	10/24/16 12:00	10/28/16 17:40	85-01-8	B
Pyrene	<b>0.022J</b>	ug/L	0.038	0.0076	1	10/24/16 12:00	10/28/16 17:40	129-00-0	B
Total PAHs	<b>0.40</b>	ug/L			1	10/24/16 12:00	10/28/16 17:40		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	51	%	25-130		1	10/24/16 12:00	10/28/16 17:40	321-60-8	
Terphenyl-d14 (S)	103	%	13-158		1	10/24/16 12:00	10/28/16 17:40	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/24/16 14:02	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/24/16 14:02	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/24/16 14:02	108-88-3	
Xylene (Total)	<b>&lt;1.5</b>	ug/L	3.0	1.5	1		10/24/16 14:02	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/24/16 14:02	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/24/16 14:02	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	106	%	70-130		1		10/24/16 14:02	1868-53-7	
Toluene-d8 (S)	81	%	70-130		1		10/24/16 14:02	2037-26-5	
4-Bromofluorobenzene (S)	85	%	70-130		1		10/24/16 14:02	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>22.0</b>	mg/L	15.0	5.0	5		11/06/16 19:45	14808-79-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Project No.: 40140378

**Sample: 101816008**      **Lab ID: 40140378008**      Collected: 10/18/16 11:20      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>419</b>	mg/L	117	35.2	5		10/21/16 14:14		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		10/24/16 12:13		

**Sample: 101816009**      **Lab ID: 40140378009**      Collected: 10/18/16 12:00      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>&lt;1.4</b>	ug/L	2.8	1.4	1		10/20/16 09:07	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 08:33	7429-90-5	
Antimony, Dissolved	<b>&lt;0.073</b>	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 08:33	7440-36-0	
Copper, Dissolved	<b>2.9</b>	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 08:33	7440-50-8	
Iron, Dissolved	<b>28.4J</b>	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 08:33	7439-89-6	
Manganese, Dissolved	<b>1310</b>	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 08:33	7439-96-5	
Nickel, Dissolved	<b>2.5</b>	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 08:33	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 08:33	7440-22-4	
Vanadium, Dissolved	<b>0.20J</b>	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 08:33	7440-62-2	
Zinc, Dissolved	<b>3.3J</b>	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 08:33	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0058</b>	ug/L	0.029	0.0058	1	10/24/16 12:00	10/28/16 17:58	83-32-9	
Acenaphthylene	<b>&lt;0.0047</b>	ug/L	0.024	0.0047	1	10/24/16 12:00	10/28/16 17:58	208-96-8	
Anthracene	<b>&lt;0.010</b>	ug/L	0.050	0.010	1	10/24/16 12:00	10/28/16 17:58	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0072</b>	ug/L	0.036	0.0072	1	10/24/16 12:00	10/28/16 17:58	56-55-3	
Benzo(a)pyrene	<b>&lt;0.010</b>	ug/L	0.050	0.010	1	10/24/16 12:00	10/28/16 17:58	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0055</b>	ug/L	0.027	0.0055	1	10/24/16 12:00	10/28/16 17:58	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0065</b>	ug/L	0.032	0.0065	1	10/24/16 12:00	10/28/16 17:58	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0072</b>	ug/L	0.036	0.0072	1	10/24/16 12:00	10/28/16 17:58	207-08-9	
Chrysene	<b>&lt;0.012</b>	ug/L	0.062	0.012	1	10/24/16 12:00	10/28/16 17:58	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0095</b>	ug/L	0.048	0.0095	1	10/24/16 12:00	10/28/16 17:58	53-70-3	
Fluoranthene	<b>&lt;0.010</b>	ug/L	0.051	0.010	1	10/24/16 12:00	10/28/16 17:58	206-44-0	
Fluorene	<b>&lt;0.0076</b>	ug/L	0.038	0.0076	1	10/24/16 12:00	10/28/16 17:58	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.017</b>	ug/L	0.084	0.017	1	10/24/16 12:00	10/28/16 17:58	193-39-5	
1-Methylnaphthalene	<b>&lt;0.0056</b>	ug/L	0.028	0.0056	1	10/24/16 12:00	10/28/16 17:58	90-12-0	
2-Methylnaphthalene	<b>0.0075J</b>	ug/L	0.023	0.0047	1	10/24/16 12:00	10/28/16 17:58	91-57-6	
Naphthalene	<b>&lt;0.017</b>	ug/L	0.087	0.017	1	10/24/16 12:00	10/28/16 17:58	91-20-3	
Phenanthrene	<b>&lt;0.013</b>	ug/L	0.066	0.013	1	10/24/16 12:00	10/28/16 17:58	85-01-8	
Pyrene	<b>0.0089J</b>	ug/L	0.036	0.0073	1	10/24/16 12:00	10/28/16 17:58	129-00-0	B
Total PAHs	<b>0.050</b>	ug/L			1	10/24/16 12:00	10/28/16 17:58		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816009**      **Lab ID: 40140378009**      Collected: 10/18/16 12:00      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	55	%	25-130		1	10/24/16 12:00	10/28/16 17:58	321-60-8	
Terphenyl-d14 (S)	100	%	13-158		1	10/24/16 12:00	10/28/16 17:58	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/24/16 14:25	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/24/16 14:25	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/24/16 14:25	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/24/16 14:25	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/24/16 14:25	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/24/16 14:25	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	107	%	70-130		1		10/24/16 14:25	1868-53-7	
Toluene-d8 (S)	83	%	70-130		1		10/24/16 14:25	2037-26-5	
4-Bromofluorobenzene (S)	83	%	70-130		1		10/24/16 14:25	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	210	mg/L	15.0	5.0	5		11/06/16 19:56	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	321	mg/L	23.5	7.0	1		10/21/16 13:50		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	7.3	mg/L	0.25	0.095	1		10/24/16 12:13		

**Sample: 101816010**      **Lab ID: 40140378010**      Collected: 10/18/16 13:15      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	27.2	ug/L	2.8	1.4	1		10/20/16 09:14	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 06:52	7429-90-5	
Antimony, Dissolved	0.77J	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 06:52	7440-36-0	
Copper, Dissolved	8.7	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 06:52	7440-50-8	
Iron, Dissolved	21.0J	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 06:52	7439-89-6	
Manganese, Dissolved	35.1	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 06:52	7439-96-5	
Nickel, Dissolved	3.3	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 06:52	7440-02-0	
Silver, Dissolved	0.032J	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 06:52	7440-22-4	
Vanadium, Dissolved	2.3	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 06:52	7440-62-2	
Zinc, Dissolved	21.6	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 06:52	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816010**      **Lab ID: 40140378010**      Collected: 10/18/16 13:15      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510							
Acenaphthene	<0.0060	ug/L	0.030	0.0060	1	10/24/16 12:00	10/24/16 19:28	83-32-9	
Acenaphthylene	<0.0049	ug/L	0.025	0.0049	1	10/24/16 12:00	10/24/16 19:28	208-96-8	
Anthracene	0.016J	ug/L	0.052	0.010	1	10/24/16 12:00	10/24/16 19:28	120-12-7	
Benzo(a)anthracene	<0.0075	ug/L	0.037	0.0075	1	10/24/16 12:00	10/24/16 19:28	56-55-3	
Benzo(a)pyrene	<0.010	ug/L	0.052	0.010	1	10/24/16 12:00	10/24/16 19:28	50-32-8	
Benzo(b)fluoranthene	<0.0057	ug/L	0.028	0.0057	1	10/24/16 12:00	10/24/16 19:28	205-99-2	
Benzo(g,h,i)perylene	<0.0067	ug/L	0.034	0.0067	1	10/24/16 12:00	10/24/16 19:28	191-24-2	
Benzo(k)fluoranthene	<0.0075	ug/L	0.037	0.0075	1	10/24/16 12:00	10/24/16 19:28	207-08-9	
Chrysene	<0.013	ug/L	0.065	0.013	1	10/24/16 12:00	10/24/16 19:28	218-01-9	
Dibenz(a,h)anthracene	<0.0099	ug/L	0.050	0.0099	1	10/24/16 12:00	10/24/16 19:28	53-70-3	
Fluoranthene	<0.011	ug/L	0.053	0.011	1	10/24/16 12:00	10/24/16 19:28	206-44-0	
Fluorene	<0.0079	ug/L	0.039	0.0079	1	10/24/16 12:00	10/24/16 19:28	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.087	0.017	1	10/24/16 12:00	10/24/16 19:28	193-39-5	
1-Methylnaphthalene	<0.0058	ug/L	0.029	0.0058	1	10/24/16 12:00	10/24/16 19:28	90-12-0	
2-Methylnaphthalene	<0.0049	ug/L	0.024	0.0049	1	10/24/16 12:00	10/24/16 19:28	91-57-6	
Naphthalene	<0.018	ug/L	0.091	0.018	1	10/24/16 12:00	10/24/16 19:28	91-20-3	
Phenanthrene	<0.014	ug/L	0.068	0.014	1	10/24/16 12:00	10/24/16 19:28	85-01-8	
Pyrene	0.011J	ug/L	0.038	0.0076	1	10/24/16 12:00	10/24/16 19:28	129-00-0	B
Total PAHs	0.052	ug/L			1	10/24/16 12:00	10/24/16 19:28		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	46	%	25-130		1	10/24/16 12:00	10/24/16 19:28	321-60-8	
Terphenyl-d14 (S)	80	%	13-158		1	10/24/16 12:00	10/24/16 19:28	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/24/16 10:39	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/24/16 10:39	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/24/16 10:39	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/24/16 10:39	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/24/16 10:39	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/24/16 10:39	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	97	%	70-130		1		10/24/16 10:39	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		10/24/16 10:39	2037-26-5	
4-Bromofluorobenzene (S)	84	%	70-130		1		10/24/16 10:39	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	65.2	mg/L	15.0	5.0	5		11/08/16 16:50	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	263	mg/L	117	35.2	5		10/21/16 14:15		M0
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	3.3	mg/L	0.25	0.095	1		10/24/16 12:14		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816011**      **Lab ID: 40140378011**      Collected: 10/18/16 13:45      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Methane	<1.4	ug/L	2.8	1.4	1		10/20/16 10:01	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 08:40	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 08:40	7440-36-0	
Copper, Dissolved	1.4	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 08:40	7440-50-8	
Iron, Dissolved	15.1J	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 08:40	7439-89-6	
Manganese, Dissolved	1.0	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 08:40	7439-96-5	
Nickel, Dissolved	1.4	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 08:40	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 08:40	7440-22-4	
Vanadium, Dissolved	0.80J	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 08:40	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 08:40	7440-66-6	
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	<0.0058	ug/L	0.029	0.0058	1	10/24/16 12:00	10/28/16 18:17	83-32-9	
Acenaphthylene	0.0086J	ug/L	0.024	0.0048	1	10/24/16 12:00	10/28/16 18:17	208-96-8	
Anthracene	0.016J	ug/L	0.050	0.010	1	10/24/16 12:00	10/28/16 18:17	120-12-7	
Benzo(a)anthracene	<0.0073	ug/L	0.036	0.0073	1	10/24/16 12:00	10/28/16 18:17	56-55-3	
Benzo(a)pyrene	<0.010	ug/L	0.051	0.010	1	10/24/16 12:00	10/28/16 18:17	50-32-8	
Benzo(b)fluoranthene	0.011J	ug/L	0.028	0.0055	1	10/24/16 12:00	10/28/16 18:17	205-99-2	
Benzo(g,h,i)perylene	0.0068J	ug/L	0.033	0.0065	1	10/24/16 12:00	10/28/16 18:17	191-24-2	
Benzo(k)fluoranthene	0.0075J	ug/L	0.036	0.0073	1	10/24/16 12:00	10/28/16 18:17	207-08-9	
Chrysene	0.018J	ug/L	0.063	0.013	1	10/24/16 12:00	10/28/16 18:17	218-01-9	
Dibenz(a,h)anthracene	<0.0096	ug/L	0.048	0.0096	1	10/24/16 12:00	10/28/16 18:17	53-70-3	
Fluoranthene	0.013J	ug/L	0.051	0.010	1	10/24/16 12:00	10/28/16 18:17	206-44-0	
Fluorene	<0.0077	ug/L	0.038	0.0077	1	10/24/16 12:00	10/28/16 18:17	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.085	0.017	1	10/24/16 12:00	10/28/16 18:17	193-39-5	
1-Methylnaphthalene	<0.0057	ug/L	0.028	0.0057	1	10/24/16 12:00	10/28/16 18:17	90-12-0	
2-Methylnaphthalene	0.0056J	ug/L	0.024	0.0047	1	10/24/16 12:00	10/28/16 18:17	91-57-6	
Naphthalene	<0.018	ug/L	0.088	0.018	1	10/24/16 12:00	10/28/16 18:17	91-20-3	
Phenanthrene	0.014J	ug/L	0.066	0.013	1	10/24/16 12:00	10/28/16 18:17	85-01-8	B
Pyrene	0.016J	ug/L	0.037	0.0074	1	10/24/16 12:00	10/28/16 18:17	129-00-0	B
Total PAHs	0.14	ug/L			1	10/24/16 12:00	10/28/16 18:17		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	53	%	25-130		1	10/24/16 12:00	10/28/16 18:17	321-60-8	
Terphenyl-d14 (S)	93	%	13-158		1	10/24/16 12:00	10/28/16 18:17	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/24/16 14:47	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/24/16 14:47	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/24/16 14:47	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/24/16 14:47	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/24/16 14:47	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/24/16 14:47	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	104	%	70-130		1		10/24/16 14:47	1868-53-7	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816011**      **Lab ID: 40140378011**      Collected: 10/18/16 13:45      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	85	%	70-130		1		10/24/16 14:47	2037-26-5	
4-Bromofluorobenzene (S)	78	%	70-130		1		10/24/16 14:47	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>839</b>	mg/L	60.0	20.0	20		11/08/16 01:08	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>144</b>	mg/L	23.5	7.0	1		10/21/16 13:52		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>0.33</b>	mg/L	0.25	0.095	1		10/24/16 12:17		

**Sample: 101816012**      **Lab ID: 40140378012**      Collected: 10/18/16 14:40      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>11.4</b>	ug/L	2.8	1.4	1		10/20/16 10:08	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 08:47	7429-90-5	
Antimony, Dissolved	<b>0.19J</b>	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 08:47	7440-36-0	
Copper, Dissolved	<b>7.1</b>	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 08:47	7440-50-8	
Iron, Dissolved	<b>4010</b>	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 08:47	7439-89-6	
Manganese, Dissolved	<b>2970</b>	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 08:47	7439-96-5	
Nickel, Dissolved	<b>17.9</b>	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 08:47	7440-02-0	
Silver, Dissolved	<b>0.021J</b>	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 08:47	7440-22-4	
Vanadium, Dissolved	<b>1.0</b>	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 08:47	7440-62-2	
Zinc, Dissolved	<b>166</b>	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 08:47	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0059</b>	ug/L	0.029	0.0059	1	10/24/16 12:00	10/28/16 18:35	83-32-9	
Acenaphthylene	<b>&lt;0.0048</b>	ug/L	0.024	0.0048	1	10/24/16 12:00	10/28/16 18:35	208-96-8	
Anthracene	<b>&lt;0.010</b>	ug/L	0.051	0.010	1	10/24/16 12:00	10/28/16 18:35	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0073</b>	ug/L	0.037	0.0073	1	10/24/16 12:00	10/28/16 18:35	56-55-3	
Benzo(a)pyrene	<b>&lt;0.010</b>	ug/L	0.051	0.010	1	10/24/16 12:00	10/28/16 18:35	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0056</b>	ug/L	0.028	0.0056	1	10/24/16 12:00	10/28/16 18:35	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0066</b>	ug/L	0.033	0.0066	1	10/24/16 12:00	10/28/16 18:35	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0073</b>	ug/L	0.037	0.0073	1	10/24/16 12:00	10/28/16 18:35	207-08-9	
Chrysene	<b>&lt;0.013</b>	ug/L	0.063	0.013	1	10/24/16 12:00	10/28/16 18:35	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0097</b>	ug/L	0.049	0.0097	1	10/24/16 12:00	10/28/16 18:35	53-70-3	
Fluoranthene	<b>&lt;0.010</b>	ug/L	0.052	0.010	1	10/24/16 12:00	10/28/16 18:35	206-44-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40140378

Sample: 101816012 Lab ID: 40140378012 Collected: 10/18/16 14:40 Received: 10/19/16 10:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Fluorene	<0.0077	ug/L	0.039	0.0077	1	10/24/16 12:00	10/28/16 18:35	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.086	0.017	1	10/24/16 12:00	10/28/16 18:35	193-39-5	
1-Methylnaphthalene	<0.0057	ug/L	0.029	0.0057	1	10/24/16 12:00	10/28/16 18:35	90-12-0	
2-Methylnaphthalene	0.0059J	ug/L	0.024	0.0048	1	10/24/16 12:00	10/28/16 18:35	91-57-6	
Naphthalene	<0.018	ug/L	0.089	0.018	1	10/24/16 12:00	10/28/16 18:35	91-20-3	
Phenanthrene	<0.013	ug/L	0.067	0.013	1	10/24/16 12:00	10/28/16 18:35	85-01-8	
Pyrene	<0.0074	ug/L	0.037	0.0074	1	10/24/16 12:00	10/28/16 18:35	129-00-0	
Total PAHs	0.057	ug/L			1	10/24/16 12:00	10/28/16 18:35		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	53	%	25-130		1	10/24/16 12:00	10/28/16 18:35	321-60-8	
Terphenyl-d14 (S)	87	%	13-158		1	10/24/16 12:00	10/28/16 18:35	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/25/16 08:15	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/25/16 08:15	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/25/16 08:15	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/25/16 08:15	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/25/16 08:15	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/25/16 08:15	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	105	%	70-130		1		10/25/16 08:15	1868-53-7	
Toluene-d8 (S)	85	%	70-130		1		10/25/16 08:15	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		10/25/16 08:15	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	462	mg/L	30.0	10.0	10		11/07/16 14:12	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	503	mg/L	117	35.2	5		10/21/16 14:19		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.33	mg/L	0.25	0.095	1		10/24/16 12:18		

Sample: 101816013 Lab ID: 40140378013 Collected: 10/18/16 15:14 Received: 10/19/16 10:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Methane	684	ug/L	11.2	5.5	4		10/20/16 12:11	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 08:53	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 08:53	7440-36-0	
Copper, Dissolved	0.27J	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 08:53	7440-50-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816013**      **Lab ID: 40140378013**      Collected: 10/18/16 15:14      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Iron, Dissolved	<b>3780</b>	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 08:53	7439-89-6	
Manganese, Dissolved	<b>701</b>	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 08:53	7439-96-5	
Nickel, Dissolved	<b>1.5</b>	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 08:53	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 08:53	7440-22-4	
Vanadium, Dissolved	<b>2.3</b>	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 08:53	7440-62-2	
Zinc, Dissolved	<b>6.6J</b>	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 08:53	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>13.0</b>	ug/L	0.030	0.0060	1	10/24/16 12:00	10/29/16 20:08	83-32-9	
Acenaphthylene	<b>0.46</b>	ug/L	0.024	0.0049	1	10/24/16 12:00	10/29/16 20:08	208-96-8	
Anthracene	<b>0.083</b>	ug/L	0.051	0.010	1	10/24/16 12:00	10/29/16 20:08	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0074</b>	ug/L	0.037	0.0074	1	10/24/16 12:00	10/29/16 20:08	56-55-3	
Benzo(a)pyrene	<b>&lt;0.010</b>	ug/L	0.052	0.010	1	10/24/16 12:00	10/29/16 20:08	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0056</b>	ug/L	0.028	0.0056	1	10/24/16 12:00	10/29/16 20:08	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0066</b>	ug/L	0.033	0.0066	1	10/24/16 12:00	10/29/16 20:08	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0074</b>	ug/L	0.037	0.0074	1	10/24/16 12:00	10/29/16 20:08	207-08-9	
Chrysene	<b>&lt;0.013</b>	ug/L	0.064	0.013	1	10/24/16 12:00	10/29/16 20:08	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0098</b>	ug/L	0.049	0.0098	1	10/24/16 12:00	10/29/16 20:08	53-70-3	
Fluoranthene	<b>0.52</b>	ug/L	0.052	0.010	1	10/24/16 12:00	10/29/16 20:08	206-44-0	
Fluorene	<b>0.91</b>	ug/L	0.039	0.0078	1	10/24/16 12:00	10/29/16 20:08	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.017</b>	ug/L	0.086	0.017	1	10/24/16 12:00	10/29/16 20:08	193-39-5	
1-Methylnaphthalene	<b>4.3</b>	ug/L	0.029	0.0058	1	10/24/16 12:00	10/29/16 20:08	90-12-0	
2-Methylnaphthalene	<b>0.047</b>	ug/L	0.024	0.0048	1	10/24/16 12:00	10/29/16 20:08	91-57-6	
Naphthalene	<b>4.8</b>	ug/L	0.090	0.018	1	10/24/16 12:00	10/29/16 20:08	91-20-3	
Phenanthrene	<b>0.20</b>	ug/L	0.068	0.014	1	10/24/16 12:00	10/29/16 20:08	85-01-8	
Pyrene	<b>0.41</b>	ug/L	0.038	0.0075	1	10/24/16 12:00	10/29/16 20:08	129-00-0	
Total PAHs	<b>24.7</b>	ug/L			1	10/24/16 12:00	10/29/16 20:08		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	44	%	25-130		1	10/24/16 12:00	10/29/16 20:08	321-60-8	
Terphenyl-d14 (S)	78	%	13-158		1	10/24/16 12:00	10/29/16 20:08	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/25/16 08:38	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/25/16 08:38	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/25/16 08:38	108-88-3	
Xylene (Total)	<b>&lt;1.5</b>	ug/L	3.0	1.5	1		10/25/16 08:38	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/25/16 08:38	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/25/16 08:38	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	110	%	70-130		1		10/25/16 08:38	1868-53-7	
Toluene-d8 (S)	85	%	70-130		1		10/25/16 08:38	2037-26-5	
4-Bromofluorobenzene (S)	85	%	70-130		1		10/25/16 08:38	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>5.5J</b>	mg/L	15.0	5.0	5		11/06/16 21:13	14808-79-8	D3

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816013**      **Lab ID: 40140378013**      Collected: 10/18/16 15:14      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>424</b>	mg/L	117	35.2	5		10/21/16 14:20		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		10/24/16 12:19		

**Sample: 101816014**      **Lab ID: 40140378014**      Collected: 10/18/16 15:57      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>2100</b>	ug/L	28.0	13.7	10		10/20/16 12:18	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 09:00	7429-90-5	
Antimony, Dissolved	<b>0.18J</b>	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 09:00	7440-36-0	
Copper, Dissolved	<b>0.54J</b>	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 09:00	7440-50-8	
Iron, Dissolved	<b>8580</b>	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 09:00	7439-89-6	
Manganese, Dissolved	<b>444</b>	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 09:00	7439-96-5	
Nickel, Dissolved	<b>3.0</b>	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 09:00	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 09:00	7440-22-4	
Vanadium, Dissolved	<b>2.7</b>	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 09:00	7440-62-2	
Zinc, Dissolved	<b>6.0J</b>	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 09:00	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>0.42J</b>	ug/L	0.55	0.11	20	10/24/16 12:00	10/25/16 18:09	83-32-9	
Acenaphthylene	<b>&lt;0.091</b>	ug/L	0.45	0.091	20	10/24/16 12:00	10/25/16 18:09	208-96-8	
Anthracene	<b>&lt;0.19</b>	ug/L	0.95	0.19	20	10/24/16 12:00	10/25/16 18:09	120-12-7	
Benzo(a)anthracene	<b>&lt;0.14</b>	ug/L	0.69	0.14	20	10/24/16 12:00	10/25/16 18:09	56-55-3	
Benzo(a)pyrene	<b>&lt;0.19</b>	ug/L	0.96	0.19	20	10/24/16 12:00	10/25/16 18:09	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.10</b>	ug/L	0.52	0.10	20	10/24/16 12:00	10/25/16 18:09	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.12</b>	ug/L	0.62	0.12	20	10/24/16 12:00	10/25/16 18:09	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.14</b>	ug/L	0.69	0.14	20	10/24/16 12:00	10/25/16 18:09	207-08-9	
Chrysene	<b>&lt;0.24</b>	ug/L	1.2	0.24	20	10/24/16 12:00	10/25/16 18:09	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.18</b>	ug/L	0.91	0.18	20	10/24/16 12:00	10/25/16 18:09	53-70-3	
Fluoranthene	<b>&lt;0.19</b>	ug/L	0.97	0.19	20	10/24/16 12:00	10/25/16 18:09	206-44-0	
Fluorene	<b>&lt;0.14</b>	ug/L	0.72	0.14	20	10/24/16 12:00	10/25/16 18:09	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.32</b>	ug/L	1.6	0.32	20	10/24/16 12:00	10/25/16 18:09	193-39-5	
1-Methylnaphthalene	<b>2.0</b>	ug/L	0.54	0.11	20	10/24/16 12:00	10/25/16 18:09	90-12-0	
2-Methylnaphthalene	<b>2.0</b>	ug/L	0.45	0.089	20	10/24/16 12:00	10/25/16 18:09	91-57-6	
Naphthalene	<b>153</b>	ug/L	1.7	0.33	20	10/24/16 12:00	10/25/16 18:09	91-20-3	
Phenanthrene	<b>&lt;0.25</b>	ug/L	1.3	0.25	20	10/24/16 12:00	10/25/16 18:09	85-01-8	
Pyrene	<b>0.21J</b>	ug/L	0.70	0.14	20	10/24/16 12:00	10/25/16 18:09	129-00-0	B
Total PAHs	<b>157</b>	ug/L			20	10/24/16 12:00	10/25/16 18:09		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816014**      **Lab ID: 40140378014**      Collected: 10/18/16 15:57      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	41	%	25-130		20	10/24/16 12:00	10/25/16 18:09	321-60-8	
Terphenyl-d14 (S)	63	%	13-158		20	10/24/16 12:00	10/25/16 18:09	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<2.0	ug/L	4.0	2.0	4		10/24/16 11:02	71-43-2	
Ethylbenzene	34.4	ug/L	4.0	2.0	4		10/24/16 11:02	100-41-4	
Toluene	<2.0	ug/L	4.0	2.0	4		10/24/16 11:02	108-88-3	
Xylene (Total)	204	ug/L	12.0	6.0	4		10/24/16 11:02	1330-20-7	
m&p-Xylene	91.3	ug/L	8.0	4.0	4		10/24/16 11:02	179601-23-1	
o-Xylene	112	ug/L	4.0	2.0	4		10/24/16 11:02	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	100	%	70-130		4		10/24/16 11:02	1868-53-7	D3
Toluene-d8 (S)	84	%	70-130		4		10/24/16 11:02	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		4		10/24/16 11:02	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<5.0	mg/L	15.0	5.0	5		11/06/16 21:24	14808-79-8	D3
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	362	mg/L	23.5	7.0	1		10/21/16 13:53		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.59	mg/L	0.25	0.095	1		10/24/16 12:19		

**Sample: 101816015**      **Lab ID: 40140378015**      Collected: 10/18/16 16:02      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	2100	ug/L	28.0	13.7	10		10/20/16 12:25	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 09:07	7429-90-5	
Antimony, Dissolved	0.14J	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 09:07	7440-36-0	
Copper, Dissolved	4.1	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 09:07	7440-50-8	
Iron, Dissolved	8280	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 09:07	7439-89-6	
Manganese, Dissolved	421	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 09:07	7439-96-5	
Nickel, Dissolved	0.58J	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 09:07	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 09:07	7440-22-4	
Vanadium, Dissolved	2.5	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 09:07	7440-62-2	
Zinc, Dissolved	4.9J	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 09:07	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816015**      **Lab ID: 40140378015**      Collected: 10/18/16 16:02      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510							
Acenaphthene	<b>0.48J</b>	ug/L	0.59	0.12	20	10/24/16 12:00	10/25/16 18:28	83-32-9	
Acenaphthylene	<b>&lt;0.098</b>	ug/L	0.49	0.098	20	10/24/16 12:00	10/25/16 18:28	208-96-8	
Anthracene	<b>&lt;0.20</b>	ug/L	1.0	0.20	20	10/24/16 12:00	10/25/16 18:28	120-12-7	
Benzo(a)anthracene	<b>&lt;0.15</b>	ug/L	0.74	0.15	20	10/24/16 12:00	10/25/16 18:28	56-55-3	
Benzo(a)pyrene	<b>&lt;0.21</b>	ug/L	1.0	0.21	20	10/24/16 12:00	10/25/16 18:28	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.11</b>	ug/L	0.56	0.11	20	10/24/16 12:00	10/25/16 18:28	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.13</b>	ug/L	0.66	0.13	20	10/24/16 12:00	10/25/16 18:28	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.15</b>	ug/L	0.74	0.15	20	10/24/16 12:00	10/25/16 18:28	207-08-9	
Chrysene	<b>&lt;0.26</b>	ug/L	1.3	0.26	20	10/24/16 12:00	10/25/16 18:28	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.20</b>	ug/L	0.98	0.20	20	10/24/16 12:00	10/25/16 18:28	53-70-3	
Fluoranthene	<b>&lt;0.21</b>	ug/L	1.0	0.21	20	10/24/16 12:00	10/25/16 18:28	206-44-0	
Fluorene	<b>&lt;0.16</b>	ug/L	0.78	0.16	20	10/24/16 12:00	10/25/16 18:28	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.35</b>	ug/L	1.7	0.35	20	10/24/16 12:00	10/25/16 18:28	193-39-5	
1-Methylnaphthalene	<b>2.3</b>	ug/L	0.58	0.12	20	10/24/16 12:00	10/25/16 18:28	90-12-0	
2-Methylnaphthalene	<b>2.2</b>	ug/L	0.48	0.096	20	10/24/16 12:00	10/25/16 18:28	91-57-6	
Naphthalene	<b>186</b>	ug/L	1.8	0.36	20	10/24/16 12:00	10/25/16 18:28	91-20-3	
Phenanthrene	<b>&lt;0.27</b>	ug/L	1.4	0.27	20	10/24/16 12:00	10/25/16 18:28	85-01-8	
Pyrene	<b>0.26J</b>	ug/L	0.75	0.15	20	10/24/16 12:00	10/25/16 18:28	129-00-0	B
Total PAHs	<b>191</b>	ug/L			20	10/24/16 12:00	10/25/16 18:28		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	47	%	25-130		20	10/24/16 12:00	10/25/16 18:28	321-60-8	
Terphenyl-d14 (S)	75	%	13-158		20	10/24/16 12:00	10/25/16 18:28	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<b>&lt;2.0</b>	ug/L	4.0	2.0	4		10/24/16 11:24	71-43-2	
Ethylbenzene	<b>37.6</b>	ug/L	4.0	2.0	4		10/24/16 11:24	100-41-4	
Toluene	<b>&lt;2.0</b>	ug/L	4.0	2.0	4		10/24/16 11:24	108-88-3	
Xylene (Total)	<b>214</b>	ug/L	12.0	6.0	4		10/24/16 11:24	1330-20-7	
m&p-Xylene	<b>101</b>	ug/L	8.0	4.0	4		10/24/16 11:24	179601-23-1	
o-Xylene	<b>113</b>	ug/L	4.0	2.0	4		10/24/16 11:24	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	105	%	70-130		4		10/24/16 11:24	1868-53-7	D3
Toluene-d8 (S)	79	%	70-130		4		10/24/16 11:24	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		4		10/24/16 11:24	460-00-4	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<b>&lt;5.0</b>	mg/L	15.0	5.0	5		11/06/16 21:36	14808-79-8	D3
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	<b>360</b>	mg/L	23.5	7.0	1		10/21/16 13:54		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<b>0.66</b>	mg/L	0.25	0.095	1		10/24/16 12:20		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816016**      **Lab ID: 40140378016**      Collected: 10/18/16 16:25      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Methane	<1.4	ug/L	2.8	1.4	1		10/20/16 10:35	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 09:14	7429-90-5	
Antimony, Dissolved	0.22J	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 09:14	7440-36-0	
Copper, Dissolved	1.8	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 09:14	7440-50-8	
Iron, Dissolved	60.6J	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 09:14	7439-96-6	
Manganese, Dissolved	7.2	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 09:14	7439-96-5	
Nickel, Dissolved	1.1	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 09:14	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 09:14	7440-22-4	
Vanadium, Dissolved	0.78J	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 09:14	7440-62-2	
Zinc, Dissolved	8.0J	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 09:14	7440-66-6	
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	<0.0055	ug/L	0.027	0.0055	1	10/24/16 12:00	10/29/16 20:27	83-32-9	
Acenaphthylene	<0.0045	ug/L	0.022	0.0045	1	10/24/16 12:00	10/29/16 20:27	208-96-8	
Anthracene	0.011J	ug/L	0.047	0.0094	1	10/24/16 12:00	10/29/16 20:27	120-12-7	
Benzo(a)anthracene	<0.0068	ug/L	0.034	0.0068	1	10/24/16 12:00	10/29/16 20:27	56-55-3	
Benzo(a)pyrene	<0.0095	ug/L	0.047	0.0095	1	10/24/16 12:00	10/29/16 20:27	50-32-8	
Benzo(b)fluoranthene	<0.0052	ug/L	0.026	0.0052	1	10/24/16 12:00	10/29/16 20:27	205-99-2	
Benzo(g,h,i)perylene	<0.0061	ug/L	0.031	0.0061	1	10/24/16 12:00	10/29/16 20:27	191-24-2	
Benzo(k)fluoranthene	<0.0068	ug/L	0.034	0.0068	1	10/24/16 12:00	10/29/16 20:27	207-08-9	
Chrysene	<0.012	ug/L	0.059	0.012	1	10/24/16 12:00	10/29/16 20:27	218-01-9	
Dibenz(a,h)anthracene	<0.0090	ug/L	0.045	0.0090	1	10/24/16 12:00	10/29/16 20:27	53-70-3	
Fluoranthene	<0.0096	ug/L	0.048	0.0096	1	10/24/16 12:00	10/29/16 20:27	206-44-0	
Fluorene	<0.0072	ug/L	0.036	0.0072	1	10/24/16 12:00	10/29/16 20:27	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.016	ug/L	0.079	0.016	1	10/24/16 12:00	10/29/16 20:27	193-39-5	
1-Methylnaphthalene	<0.0053	ug/L	0.027	0.0053	1	10/24/16 12:00	10/29/16 20:27	90-12-0	
2-Methylnaphthalene	<0.0044	ug/L	0.022	0.0044	1	10/24/16 12:00	10/29/16 20:27	91-57-6	
Naphthalene	<0.017	ug/L	0.083	0.017	1	10/24/16 12:00	10/29/16 20:27	91-20-3	
Phenanthrene	<0.012	ug/L	0.062	0.012	1	10/24/16 12:00	10/29/16 20:27	85-01-8	
Pyrene	0.012J	ug/L	0.034	0.0069	1	10/24/16 12:00	10/29/16 20:27	129-00-0	B
Total PAHs	0.060	ug/L			1	10/24/16 12:00	10/29/16 20:27		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	40	%	25-130		1	10/24/16 12:00	10/29/16 20:27	321-60-8	
Terphenyl-d14 (S)	72	%	13-158		1	10/24/16 12:00	10/29/16 20:27	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/25/16 09:00	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/25/16 09:00	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/25/16 09:00	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/25/16 09:00	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/25/16 09:00	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/25/16 09:00	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	103	%	70-130		1		10/25/16 09:00	1868-53-7	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816016**      **Lab ID: 40140378016**      Collected: 10/18/16 16:25      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	82	%	70-130		1		10/25/16 09:00	2037-26-5	
4-Bromofluorobenzene (S)	82	%	70-130		1		10/25/16 09:00	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>589</b>	mg/L	60.0	20.0	20		11/08/16 01:19	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>170</b>	mg/L	23.5	7.0	1		10/21/16 13:55		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>1.9</b>	mg/L	0.25	0.095	1		10/24/16 12:24		

**Sample: 101816017**      **Lab ID: 40140378017**      Collected: 10/18/16 17:07      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>9520</b>	ug/L	140	68.5	50		10/20/16 12:32	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 09:34	7429-90-5	
Antimony, Dissolved	<b>&lt;0.073</b>	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 09:34	7440-36-0	
Copper, Dissolved	<b>0.46J</b>	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 09:34	7440-50-8	
Iron, Dissolved	<b>28500</b>	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 09:34	7439-89-6	
Manganese, Dissolved	<b>1130</b>	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 09:34	7439-96-5	
Nickel, Dissolved	<b>2.4</b>	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 09:34	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 09:34	7440-22-4	
Vanadium, Dissolved	<b>4.0</b>	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 09:34	7440-62-2	
Zinc, Dissolved	<b>22.3</b>	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 09:34	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>65.9</b>	ug/L	0.30	0.061	10	10/24/16 12:00	10/25/16 18:46	83-32-9	
Acenaphthylene	<b>1.4</b>	ug/L	0.25	0.050	10	10/24/16 12:00	10/25/16 18:46	208-96-8	
Anthracene	<b>4.0</b>	ug/L	0.52	0.10	10	10/24/16 12:00	10/25/16 18:46	120-12-7	
Benzo(a)anthracene	<b>&lt;0.076</b>	ug/L	0.38	0.076	10	10/24/16 12:00	10/25/16 18:46	56-55-3	
Benzo(a)pyrene	<b>&lt;0.11</b>	ug/L	0.53	0.11	10	10/24/16 12:00	10/25/16 18:46	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.057</b>	ug/L	0.29	0.057	10	10/24/16 12:00	10/25/16 18:46	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.068</b>	ug/L	0.34	0.068	10	10/24/16 12:00	10/25/16 18:46	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.076</b>	ug/L	0.38	0.076	10	10/24/16 12:00	10/25/16 18:46	207-08-9	
Chrysene	<b>0.15J</b>	ug/L	0.65	0.13	10	10/24/16 12:00	10/25/16 18:46	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.10</b>	ug/L	0.50	0.10	10	10/24/16 12:00	10/25/16 18:46	53-70-3	
Fluoranthene	<b>2.2</b>	ug/L	0.53	0.11	10	10/24/16 12:00	10/25/16 18:46	206-44-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

Sample: 101816017 Lab ID: 40140378017 Collected: 10/18/16 17:07 Received: 10/19/16 10:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Fluorene	18.7	ug/L	0.40	0.080	10	10/24/16 12:00	10/25/16 18:46	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.18	ug/L	0.88	0.18	10	10/24/16 12:00	10/25/16 18:46	193-39-5	
1-Methylnaphthalene	103	ug/L	0.30	0.059	10	10/24/16 12:00	10/25/16 18:46	90-12-0	
2-Methylnaphthalene	26.5	ug/L	0.24	0.049	10	10/24/16 12:00	10/25/16 18:46	91-57-6	
Naphthalene	578	ug/L	4.6	0.92	50	10/24/16 12:00	10/26/16 11:19	91-20-3	
Phenanthrene	19.5	ug/L	0.69	0.14	10	10/24/16 12:00	10/25/16 18:46	85-01-8	
Pyrene	2.0	ug/L	0.38	0.076	10	10/24/16 12:00	10/25/16 18:46	129-00-0	
Total PAHs	822	ug/L			50	10/24/16 12:00	10/26/16 11:19		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	47	%	25-130		10	10/24/16 12:00	10/25/16 18:46	321-60-8	
Terphenyl-d14 (S)	57	%	13-158		10	10/24/16 12:00	10/25/16 18:46	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	178	ug/L	10.0	5.0	10		10/24/16 11:47	71-43-2	
Ethylbenzene	103	ug/L	10.0	5.0	10		10/24/16 11:47	100-41-4	
Toluene	7.7J	ug/L	10.0	5.0	10		10/24/16 11:47	108-88-3	
Xylene (Total)	69.9	ug/L	30.0	15.0	10		10/24/16 11:47	1330-20-7	
m&p-Xylene	11.9J	ug/L	20.0	10.0	10		10/24/16 11:47	179601-23-1	
o-Xylene	58.0	ug/L	10.0	5.0	10		10/24/16 11:47	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	105	%	70-130		10		10/24/16 11:47	1868-53-7	D3
Toluene-d8 (S)	82	%	70-130		10		10/24/16 11:47	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		10		10/24/16 11:47	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<5.0	mg/L	15.0	5.0	5		11/06/16 21:58	14808-79-8	D3
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	847	mg/L	117	35.2	5		10/21/16 14:23		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		10/24/16 12:24		

Sample: 101816018 Lab ID: 40140378018 Collected: 10/18/16 17:47 Received: 10/19/16 10:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	13300	ug/L	140	68.5	50		10/20/16 12:39	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 09:41	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 09:41	7440-36-0	
Copper, Dissolved	0.29J	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 09:41	7440-50-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101816018**      **Lab ID: 40140378018**      Collected: 10/18/16 17:47      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Iron, Dissolved	34700	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 09:41	7439-89-6	
Manganese, Dissolved	512	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 09:41	7439-96-5	
Nickel, Dissolved	1.5	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 09:41	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 09:41	7440-22-4	
Vanadium, Dissolved	0.30J	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 09:41	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 09:41	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	1.7	ug/L	0.030	0.0061	1	10/24/16 12:00	10/29/16 20:45	83-32-9	
Acenaphthylene	0.085	ug/L	0.025	0.0050	1	10/24/16 12:00	10/29/16 20:45	208-96-8	
Anthracene	0.092	ug/L	0.052	0.010	1	10/24/16 12:00	10/29/16 20:45	120-12-7	
Benzo(a)anthracene	<0.0076	ug/L	0.038	0.0076	1	10/24/16 12:00	10/29/16 20:45	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.053	0.011	1	10/24/16 12:00	10/29/16 20:45	50-32-8	
Benzo(b)fluoranthene	0.0068J	ug/L	0.029	0.0057	1	10/24/16 12:00	10/29/16 20:45	205-99-2	
Benzo(g,h,i)perylene	<0.0068	ug/L	0.034	0.0068	1	10/24/16 12:00	10/29/16 20:45	191-24-2	
Benzo(k)fluoranthene	<0.0076	ug/L	0.038	0.0076	1	10/24/16 12:00	10/29/16 20:45	207-08-9	
Chrysene	0.026J	ug/L	0.065	0.013	1	10/24/16 12:00	10/29/16 20:45	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.050	0.010	1	10/24/16 12:00	10/29/16 20:45	53-70-3	
Fluoranthene	0.22	ug/L	0.053	0.011	1	10/24/16 12:00	10/29/16 20:45	206-44-0	
Fluorene	0.40	ug/L	0.040	0.0080	1	10/24/16 12:00	10/29/16 20:45	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.018	ug/L	0.088	0.018	1	10/24/16 12:00	10/29/16 20:45	193-39-5	
1-Methylnaphthalene	0.39	ug/L	0.030	0.0059	1	10/24/16 12:00	10/29/16 20:45	90-12-0	
2-Methylnaphthalene	0.026	ug/L	0.024	0.0049	1	10/24/16 12:00	10/29/16 20:45	91-57-6	
Naphthalene	0.10	ug/L	0.092	0.018	1	10/24/16 12:00	10/29/16 20:45	91-20-3	
Phenanthrene	0.30	ug/L	0.069	0.014	1	10/24/16 12:00	10/29/16 20:45	85-01-8	
Pyrene	0.23	ug/L	0.038	0.0076	1	10/24/16 12:00	10/29/16 20:45	129-00-0	
Total PAHs	3.6	ug/L			1	10/24/16 12:00	10/29/16 20:45		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	45	%	25-130		1	10/24/16 12:00	10/29/16 20:45	321-60-8	
Terphenyl-d14 (S)	75	%	13-158		1	10/24/16 12:00	10/29/16 20:45	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/25/16 09:23	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/25/16 09:23	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/25/16 09:23	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/25/16 09:23	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/25/16 09:23	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/25/16 09:23	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	110	%	70-130		1		10/25/16 09:23	1868-53-7	
Toluene-d8 (S)	80	%	70-130		1		10/25/16 09:23	2037-26-5	
4-Bromofluorobenzene (S)	85	%	70-130		1		10/25/16 09:23	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<5.0	mg/L	15.0	5.0	5		11/06/16 22:09	14808-79-8	D3

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Sample Project No.: 40140378

Sample: 101816018      Lab ID: 40140378018      Collected: 10/18/16 17:47      Received: 10/19/16 10:27      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	407	mg/L	117	35.2	5		10/21/16 14:24		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		10/24/16 12:25		

Sample: 101916019      Lab ID: 40140378019      Collected: 10/19/16 06:55      Received: 10/19/16 10:27      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	3820	ug/L	70.0	34.2	25		10/20/16 12:46	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 09:47	7429-90-5	
Antimony, Dissolved	0.097J	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 09:47	7440-36-0	
Copper, Dissolved	0.30J	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 09:47	7440-50-8	
Iron, Dissolved	29300	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 09:47	7439-89-6	
Manganese, Dissolved	1480	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 09:47	7439-96-5	
Nickel, Dissolved	2.0	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 09:47	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 09:47	7440-22-4	
Vanadium, Dissolved	5.3	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 09:47	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 09:47	7440-66-6	

<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	3.7	ug/L	0.029	0.0058	1	10/25/16 13:29	10/29/16 21:04	83-32-9	
Acenaphthylene	0.099	ug/L	0.024	0.0048	1	10/25/16 13:29	10/29/16 21:04	208-96-8	
Anthracene	0.090	ug/L	0.050	0.010	1	10/25/16 13:29	10/29/16 21:04	120-12-7	
Benzo(a)anthracene	<0.0073	ug/L	0.036	0.0073	1	10/25/16 13:29	10/29/16 21:04	56-55-3	
Benzo(a)pyrene	<0.010	ug/L	0.051	0.010	1	10/25/16 13:29	10/29/16 21:04	50-32-8	
Benzo(b)fluoranthene	0.021J	ug/L	0.028	0.0055	1	10/25/16 13:29	10/29/16 21:04	205-99-2	
Benzo(g,h,i)perylene	0.0097J	ug/L	0.033	0.0065	1	10/25/16 13:29	10/29/16 21:04	191-24-2	
Benzo(k)fluoranthene	0.010J	ug/L	0.036	0.0073	1	10/25/16 13:29	10/29/16 21:04	207-08-9	
Chrysene	0.016J	ug/L	0.063	0.013	1	10/25/16 13:29	10/29/16 21:04	218-01-9	
Dibenz(a,h)anthracene	<0.0096	ug/L	0.048	0.0096	1	10/25/16 13:29	10/29/16 21:04	53-70-3	
Fluoranthene	0.12	ug/L	0.051	0.010	1	10/25/16 13:29	10/29/16 21:04	206-44-0	
Fluorene	0.94	ug/L	0.038	0.0077	1	10/25/16 13:29	10/29/16 21:04	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.085	0.017	1	10/25/16 13:29	10/29/16 21:04	193-39-5	
1-Methylnaphthalene	0.30	ug/L	0.028	0.0057	1	10/25/16 13:29	10/29/16 21:04	90-12-0	
2-Methylnaphthalene	0.022J	ug/L	0.024	0.0047	1	10/25/16 13:29	10/29/16 21:04	91-57-6	
Naphthalene	1.1	ug/L	0.088	0.018	1	10/25/16 13:29	10/29/16 21:04	91-20-3	
Phenanthrene	0.041J	ug/L	0.066	0.013	1	10/25/16 13:29	10/29/16 21:04	85-01-8	
Pyrene	0.11	ug/L	0.037	0.0074	1	10/25/16 13:29	10/29/16 21:04	129-00-0	
Total PAHs	6.6	ug/L			1	10/25/16 13:29	10/29/16 21:04		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101916019**      **Lab ID: 40140378019**      Collected: 10/19/16 06:55      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	46	%	25-130		1	10/25/16 13:29	10/29/16 21:04	321-60-8	
Terphenyl-d14 (S)	69	%	13-158		1	10/25/16 13:29	10/29/16 21:04	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/25/16 09:45	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/25/16 09:45	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/25/16 09:45	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/25/16 09:45	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/25/16 09:45	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/25/16 09:45	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	108	%	70-130		1		10/25/16 09:45	1868-53-7	
Toluene-d8 (S)	84	%	70-130		1		10/25/16 09:45	2037-26-5	
4-Bromofluorobenzene (S)	84	%	70-130		1		10/25/16 09:45	460-00-4	
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	7.6J	mg/L	15.0	5.0	5		11/06/16 22:20	14808-79-8	D3
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	368	mg/L	23.5	7.0	1		10/21/16 13:58		
<b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		10/24/16 12:26		

**Sample: 101916020**      **Lab ID: 40140378020**      Collected: 10/19/16 07:45      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	12100	ug/L	140	68.5	50		10/20/16 12:53	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	10/28/16 08:59	11/01/16 09:54	7429-90-5	
Antimony, Dissolved	0.18J	ug/L	1.0	0.073	1	10/28/16 08:59	11/01/16 09:54	7440-36-0	
Copper, Dissolved	0.39J	ug/L	1.0	0.26	1	10/28/16 08:59	11/01/16 09:54	7440-50-8	
Iron, Dissolved	7980	ug/L	250	10.0	1	10/28/16 08:59	11/01/16 09:54	7439-89-6	
Manganese, Dissolved	887	ug/L	1.0	0.18	1	10/28/16 08:59	11/01/16 09:54	7439-96-5	
Nickel, Dissolved	1.4	ug/L	1.0	0.11	1	10/28/16 08:59	11/01/16 09:54	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	10/28/16 08:59	11/01/16 09:54	7440-22-4	
Vanadium, Dissolved	1.0	ug/L	1.0	0.15	1	10/28/16 08:59	11/01/16 09:54	7440-62-2	
Zinc, Dissolved	4.3J	ug/L	10.0	3.1	1	10/28/16 08:59	11/01/16 09:54	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101916020**      **Lab ID: 40140378020**      Collected: 10/19/16 07:45      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>0.016J</b>	ug/L	0.030	0.0061	1	10/25/16 13:29	10/29/16 21:23	83-32-9	
Acenaphthylene	<b>&lt;0.0050</b>	ug/L	0.025	0.0050	1	10/25/16 13:29	10/29/16 21:23	208-96-8	
Anthracene	<b>&lt;0.010</b>	ug/L	0.052	0.010	1	10/25/16 13:29	10/29/16 21:23	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0076</b>	ug/L	0.038	0.0076	1	10/25/16 13:29	10/29/16 21:23	56-55-3	
Benzo(a)pyrene	<b>&lt;0.011</b>	ug/L	0.053	0.011	1	10/25/16 13:29	10/29/16 21:23	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0057</b>	ug/L	0.029	0.0057	1	10/25/16 13:29	10/29/16 21:23	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0068</b>	ug/L	0.034	0.0068	1	10/25/16 13:29	10/29/16 21:23	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0076</b>	ug/L	0.038	0.0076	1	10/25/16 13:29	10/29/16 21:23	207-08-9	
Chrysene	<b>&lt;0.013</b>	ug/L	0.065	0.013	1	10/25/16 13:29	10/29/16 21:23	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.010</b>	ug/L	0.050	0.010	1	10/25/16 13:29	10/29/16 21:23	53-70-3	
Fluoranthene	<b>&lt;0.011</b>	ug/L	0.053	0.011	1	10/25/16 13:29	10/29/16 21:23	206-44-0	
Fluorene	<b>&lt;0.0080</b>	ug/L	0.040	0.0080	1	10/25/16 13:29	10/29/16 21:23	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.018</b>	ug/L	0.088	0.018	1	10/25/16 13:29	10/29/16 21:23	193-39-5	
1-Methylnaphthalene	<b>&lt;0.0059</b>	ug/L	0.030	0.0059	1	10/25/16 13:29	10/29/16 21:23	90-12-0	
2-Methylnaphthalene	<b>&lt;0.0049</b>	ug/L	0.024	0.0049	1	10/25/16 13:29	10/29/16 21:23	91-57-6	
Naphthalene	<b>&lt;0.018</b>	ug/L	0.092	0.018	1	10/25/16 13:29	10/29/16 21:23	91-20-3	
Phenanthrene	<b>&lt;0.014</b>	ug/L	0.069	0.014	1	10/25/16 13:29	10/29/16 21:23	85-01-8	
Pyrene	<b>0.013J</b>	ug/L	0.038	0.0076	1	10/25/16 13:29	10/29/16 21:23	129-00-0	B
Total PAHs	<b>0.080</b>	ug/L			1	10/25/16 13:29	10/29/16 21:23		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	48	%	25-130		1	10/25/16 13:29	10/29/16 21:23	321-60-8	
Terphenyl-d14 (S)	80	%	13-158		1	10/25/16 13:29	10/29/16 21:23	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/25/16 10:08	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/25/16 10:08	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/25/16 10:08	108-88-3	
Xylene (Total)	<b>&lt;1.5</b>	ug/L	3.0	1.5	1		10/25/16 10:08	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		10/25/16 10:08	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		10/25/16 10:08	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	107	%	70-130		1		10/25/16 10:08	1868-53-7	
Toluene-d8 (S)	84	%	70-130		1		10/25/16 10:08	2037-26-5	
4-Bromofluorobenzene (S)	83	%	70-130		1		10/25/16 10:08	460-00-4	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0									
Sulfate	<b>&lt;5.0</b>	mg/L	15.0	5.0	5		11/06/16 22:31	14808-79-8	D3
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>412</b>	mg/L	117	35.2	5		10/21/16 14:25		P6
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<b>&lt;0.095</b>	mg/L	0.25	0.095	1		10/24/16 12:27		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

**Sample: 101916021**      **Lab ID: 40140378021**      Collected: 10/19/16 08:15      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/25/16 10:30	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/25/16 10:30	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/25/16 10:30	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/25/16 10:30	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/25/16 10:30	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/25/16 10:30	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	108	%	70-130		1		10/25/16 10:30	1868-53-7	
Toluene-d8 (S)	84	%	70-130		1		10/25/16 10:30	2037-26-5	
4-Bromofluorobenzene (S)	83	%	70-130		1		10/25/16 10:30	460-00-4	

**Sample: 101916022**      **Lab ID: 40140378022**      Collected: 10/19/16 00:00      Received: 10/19/16 10:27      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		10/25/16 10:53	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/25/16 10:53	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		10/25/16 10:53	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		10/25/16 10:53	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/25/16 10:53	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/25/16 10:53	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	97	%	70-130		1		10/25/16 10:53	1868-53-7	
Toluene-d8 (S)	84	%	70-130		1		10/25/16 10:53	2037-26-5	
4-Bromofluorobenzene (S)	82	%	70-130		1		10/25/16 10:53	460-00-4	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

QC Batch: 239611 Analysis Method: EPA 6020  
 QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
 Associated Lab Samples: 40140378001, 40140378002, 40140378003, 40140378004, 40140378005, 40140378006, 40140378007, 40140378008, 40140378009, 40140378010, 40140378011, 40140378012, 40140378013, 40140378014, 40140378015, 40140378016, 40140378017, 40140378018, 40140378019, 40140378020

METHOD BLANK: 1419430 Matrix: Water  
 Associated Lab Samples: 40140378001, 40140378002, 40140378003, 40140378004, 40140378005, 40140378006, 40140378007, 40140378008, 40140378009, 40140378010, 40140378011, 40140378012, 40140378013, 40140378014, 40140378015, 40140378016, 40140378017, 40140378018, 40140378019, 40140378020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<68.7	250	11/01/16 06:25	
Antimony, Dissolved	ug/L	<0.073	1.0	11/01/16 06:25	
Copper, Dissolved	ug/L	<0.26	1.0	11/01/16 06:25	
Iron, Dissolved	ug/L	<10.0	250	11/01/16 06:25	
Manganese, Dissolved	ug/L	<0.18	1.0	11/01/16 06:25	
Nickel, Dissolved	ug/L	<0.11	1.0	11/01/16 06:25	
Silver, Dissolved	ug/L	<0.016	0.50	11/01/16 06:25	
Vanadium, Dissolved	ug/L	<0.15	1.0	11/01/16 06:25	
Zinc, Dissolved	ug/L	<3.1	10.0	11/01/16 06:25	

LABORATORY CONTROL SAMPLE: 1419431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	4960	99	80-120	
Antimony, Dissolved	ug/L	500	536	107	80-120	
Copper, Dissolved	ug/L	500	505	101	80-120	
Iron, Dissolved	ug/L	5000	4970	99	80-120	
Manganese, Dissolved	ug/L	500	503	101	80-120	
Nickel, Dissolved	ug/L	500	494	99	80-120	
Silver, Dissolved	ug/L	250	254	102	80-120	
Vanadium, Dissolved	ug/L	500	502	100	80-120	
Zinc, Dissolved	ug/L	500	519	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1419432 1419433

Parameter	Units	40140378010 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Aluminum, Dissolved	ug/L	<68.7	5000	4710	5000	4820	94	96	75-125	2	20	
Antimony, Dissolved	ug/L	0.77J	500	531	500	539	106	108	75-125	2	20	
Copper, Dissolved	ug/L	8.7	500	487	500	496	96	97	75-125	2	20	
Iron, Dissolved	ug/L	21.0J	5000	4860	5000	4930	97	98	75-125	1	20	
Manganese, Dissolved	ug/L	35.1	500	531	500	537	99	100	75-125	1	20	
Nickel, Dissolved	ug/L	3.3	500	479	500	487	95	97	75-125	2	20	
Silver, Dissolved	ug/L	0.032J	250	236	250	243	95	97	75-125	3	20	
Vanadium, Dissolved	ug/L	2.3	500	501	500	508	100	101	75-125	1	20	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

Parameter	Units	40140378010		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec							
Zinc, Dissolved	ug/L	21.6	500	500	528	533	101	102	75-125	1	20				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40140378

QC Batch: 238706 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Associated Lab Samples: 40140378003, 40140378004, 40140378005, 40140378006, 40140378007, 40140378008, 40140378009, 40140378010, 40140378011, 40140378012, 40140378013, 40140378014, 40140378015, 40140378016, 40140378017, 40140378018, 40140378019, 40140378020, 40140378021, 40140378022

METHOD BLANK: 1414232 Matrix: Water  
Associated Lab Samples: 40140378003, 40140378004, 40140378005, 40140378006, 40140378007, 40140378008, 40140378009, 40140378010, 40140378011, 40140378012, 40140378013, 40140378014, 40140378015, 40140378016, 40140378017, 40140378018, 40140378019, 40140378020, 40140378021, 40140378022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	10/24/16 08:59	
Ethylbenzene	ug/L	<0.50	1.0	10/24/16 08:59	
m&p-Xylene	ug/L	<1.0	2.0	10/24/16 08:59	
o-Xylene	ug/L	<0.50	1.0	10/24/16 08:59	
Toluene	ug/L	<0.50	1.0	10/24/16 08:59	
Xylene (Total)	ug/L	<1.5	3.0	10/24/16 08:59	
4-Bromofluorobenzene (S)	%	81	70-130	10/24/16 08:59	
Dibromofluoromethane (S)	%	100	70-130	10/24/16 08:59	
Toluene-d8 (S)	%	86	70-130	10/24/16 08:59	

LABORATORY CONTROL SAMPLE: 1414233

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	55.4	111	60-135	
Ethylbenzene	ug/L	50	48.3	97	70-136	
m&p-Xylene	ug/L	100	99.9	100	70-138	
o-Xylene	ug/L	50	48.1	96	70-134	
Toluene	ug/L	50	51.8	104	70-130	
Xylene (Total)	ug/L	150	148	99	70-135	
4-Bromofluorobenzene (S)	%			88	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			90	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1414234 1414235

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40140378010 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Benzene	ug/L	<0.50	50	50	44.1	53.4	88	107	57-138	19	20	
Ethylbenzene	ug/L	<0.50	50	50	46.6	47.3	93	95	70-138	2	20	
m&p-Xylene	ug/L	<1.0	100	100	95.8	97.8	96	98	70-140	2	20	
o-Xylene	ug/L	<0.50	50	50	45.5	46.2	91	92	70-134	2	20	
Toluene	ug/L	<0.50	50	50	44.8	50.4	90	101	70-130	12	20	
Xylene (Total)	ug/L	<1.5	150	150	141	144	94	96	70-135	2	20	
4-Bromofluorobenzene (S)	%						95	89	70-130			
Dibromofluoromethane (S)	%						97	96	70-130			

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**QUALITY CONTROL DATA**

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1414234			1414235								
Parameter	Units	40140378010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Toluene-d8 (S)	%						86	93	70-130				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40140378

QC Batch: 238711 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Associated Lab Samples: 40140378001, 40140378002

METHOD BLANK: 1414244 Matrix: Water  
Associated Lab Samples: 40140378001, 40140378002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	10/24/16 06:37	
Ethylbenzene	ug/L	<0.50	1.0	10/24/16 06:37	
m&p-Xylene	ug/L	<1.0	2.0	10/24/16 06:37	
o-Xylene	ug/L	<0.50	1.0	10/24/16 06:37	
Toluene	ug/L	<0.50	1.0	10/24/16 06:37	
Xylene (Total)	ug/L	<1.5	3.0	10/24/16 06:37	
4-Bromofluorobenzene (S)	%	94	70-130	10/24/16 06:37	
Dibromofluoromethane (S)	%	97	70-130	10/24/16 06:37	
Toluene-d8 (S)	%	96	70-130	10/24/16 06:37	

LABORATORY CONTROL SAMPLE: 1414245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	44.2	88	60-135	
Ethylbenzene	ug/L	50	48.5	97	70-136	
m&p-Xylene	ug/L	100	99.7	100	70-138	
o-Xylene	ug/L	50	50.3	101	70-134	
Toluene	ug/L	50	48.8	98	70-130	
Xylene (Total)	ug/L	150	150	100	70-135	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1414641 1414642

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40140106002 Result	Spike Conc.	Spike Conc.	Result						
Benzene	ug/L	<0.50	50	50	48.4	46.9	97	94	57-138	3	20
Ethylbenzene	ug/L	<0.50	50	50	52.5	51.9	105	104	70-138	1	20
m&p-Xylene	ug/L	<1.0	100	100	109	107	109	107	70-140	2	20
o-Xylene	ug/L	<0.50	50	50	54.4	53.6	109	107	70-134	1	20
Toluene	ug/L	<0.50	50	50	52.2	51.2	104	102	70-130	2	20
Xylene (Total)	ug/L	<1.5	150	150	163	160	109	107	70-135	2	20
4-Bromofluorobenzene (S)	%						101	100	70-130		
Dibromofluoromethane (S)	%						99	97	70-130		
Toluene-d8 (S)	%						100	97	70-130		

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

QC Batch: 238856 Analysis Method: EPA 8270 by HVI  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI  
 Associated Lab Samples: 40140378001, 40140378002, 40140378003, 40140378004, 40140378005, 40140378006

METHOD BLANK: 1415067 Matrix: Water  
 Associated Lab Samples: 40140378001, 40140378002, 40140378003, 40140378004, 40140378005, 40140378006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	10/21/16 14:54	
2-Methylnaphthalene	ug/L	<0.0049	0.024	10/21/16 14:54	
Acenaphthene	ug/L	<0.0061	0.030	10/21/16 14:54	
Acenaphthylene	ug/L	<0.0050	0.025	10/21/16 14:54	
Anthracene	ug/L	<0.010	0.052	10/21/16 14:54	
Benzo(a)anthracene	ug/L	<0.0076	0.038	10/21/16 14:54	
Benzo(a)pyrene	ug/L	<0.011	0.053	10/21/16 14:54	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	10/21/16 14:54	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	10/21/16 14:54	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	10/21/16 14:54	
Chrysene	ug/L	<0.013	0.065	10/21/16 14:54	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	10/21/16 14:54	
Fluoranthene	ug/L	<0.011	0.053	10/21/16 14:54	
Fluorene	ug/L	<0.0080	0.040	10/21/16 14:54	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	10/21/16 14:54	
Naphthalene	ug/L	<0.018	0.092	10/21/16 14:54	
Phenanthrene	ug/L	<0.014	0.069	10/21/16 14:54	
Pyrene	ug/L	0.0081J	0.038	10/21/16 14:54	
Total PAHs	ug/L	0.024		10/21/16 14:54	
2-Fluorobiphenyl (S)	%	46	25-130	10/21/16 14:54	
Terphenyl-d14 (S)	%	85	13-158	10/21/16 14:54	

LABORATORY CONTROL SAMPLE: 1415068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.2	58	35-130	
2-Methylnaphthalene	ug/L	2	1.1	56	36-130	
Acenaphthene	ug/L	2	1.1	55	41-130	
Acenaphthylene	ug/L	2	1.1	56	41-130	
Anthracene	ug/L	2	1.4	71	38-130	
Benzo(a)anthracene	ug/L	2	1.3	67	49-130	
Benzo(a)pyrene	ug/L	2	1.9	95	69-143	
Benzo(b)fluoranthene	ug/L	2	1.7	83	63-146	
Benzo(g,h,i)perylene	ug/L	2	1.6	80	10-145	
Benzo(k)fluoranthene	ug/L	2	2.0	100	64-152	
Chrysene	ug/L	2	2.2	110	64-156	
Dibenz(a,h)anthracene	ug/L	2	1.5	76	10-143	
Fluoranthene	ug/L	2	1.6	82	54-134	
Fluorene	ug/L	2	1.1	55	44-130	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.9	93	39-140	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

LABORATORY CONTROL SAMPLE: 1415068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	1.1	55	35-130	
Phenanthrene	ug/L	2	1.3	65	51-130	
Pyrene	ug/L	2	1.5	76	61-140	
Total PAHs	ug/L		26.7			
2-Fluorobiphenyl (S)	%			61	25-130	
Terphenyl-d14 (S)	%			95	13-158	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1415079 1415080

Parameter	Units	40140386008		1415079		1415080		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
1-Methylnaphthalene	ug/L	<0.0058	2	1.9	1.0	1.1	52	57	16-130	9	30			
2-Methylnaphthalene	ug/L	0.0050J	2	1.9	1.0	1.1	51	57	33-130	9	30			
Acenaphthene	ug/L	<0.0060	2	1.9	1.0	1.0	52	54	29-130	3	27			
Acenaphthylene	ug/L	0.37	2	1.9	1.5	1.5	59	57	33-130	3	27			
Anthracene	ug/L	0.018J	2	1.9	1.5	1.5	74	75	26-130	0	31			
Benzo(a)anthracene	ug/L	<0.0075	2	1.9	1.3	1.3	65	65	27-130	1	36			
Benzo(a)pyrene	ug/L	<0.010	2	1.9	1.7	1.7	88	89	16-151	1	44			
Benzo(b)fluoranthene	ug/L	<0.0057	2	1.9	1.5	1.5	78	78	30-142	0	41			
Benzo(g,h,i)perylene	ug/L	<0.0067	2	1.9	1.4	1.4	71	70	10-130	2	50			
Benzo(k)fluoranthene	ug/L	<0.0075	2	1.9	1.8	1.8	93	93	24-152	1	41			
Chrysene	ug/L	<0.013	2	1.9	2.1	2.0	105	105	40-152	1	33			
Dibenz(a,h)anthracene	ug/L	<0.0099	2	1.9	1.4	1.3	70	69	10-130	3	50			
Fluoranthene	ug/L	<0.011	2	1.9	1.6	1.6	83	81	39-140	4	30			
Fluorene	ug/L	0.011J	2	1.9	1.1	1.1	54	54	35-130	0	26			
Indeno(1,2,3-cd)pyrene	ug/L	<0.017	2	1.9	1.6	1.6	81	82	10-130	1	50			
Naphthalene	ug/L	0.019J	2	1.9	0.98	1.1	49	56	29-130	12	31			
Phenanthrene	ug/L	<0.014	2	1.9	1.3	1.3	66	66	48-130	2	25			
Pyrene	ug/L	0.0089J	2	1.9	1.5	1.5	76	76	42-143	1	25			
Total PAHs	ug/L	0.46			25.3	25.4					0			
2-Fluorobiphenyl (S)	%						55	58	25-130					
Terphenyl-d14 (S)	%						83	84	13-158					

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

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QC Batch: 239020 Analysis Method: EPA 8270 by HVI  
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI  
 Associated Lab Samples: 40140378007, 40140378008, 40140378009, 40140378010, 40140378011, 40140378012, 40140378013, 40140378014, 40140378015, 40140378016, 40140378017, 40140378018

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METHOD BLANK: 1416488 Matrix: Water  
 Associated Lab Samples: 40140378007, 40140378008, 40140378009, 40140378010, 40140378011, 40140378012, 40140378013, 40140378014, 40140378015, 40140378016, 40140378017, 40140378018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	10/24/16 16:05	
2-Methylnaphthalene	ug/L	<0.0049	0.024	10/24/16 16:05	
Acenaphthene	ug/L	<0.0061	0.030	10/24/16 16:05	
Acenaphthylene	ug/L	<0.0050	0.025	10/24/16 16:05	
Anthracene	ug/L	<0.010	0.052	10/24/16 16:05	
Benzo(a)anthracene	ug/L	<0.0076	0.038	10/24/16 16:05	
Benzo(a)pyrene	ug/L	<0.011	0.053	10/24/16 16:05	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	10/24/16 16:05	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	10/24/16 16:05	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	10/24/16 16:05	
Chrysene	ug/L	<0.013	0.065	10/24/16 16:05	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	10/24/16 16:05	
Fluoranthene	ug/L	<0.011	0.053	10/24/16 16:05	
Fluorene	ug/L	<0.0080	0.040	10/24/16 16:05	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	10/24/16 16:05	
Naphthalene	ug/L	<0.018	0.092	10/24/16 16:05	
Phenanthrene	ug/L	0.016J	0.069	10/24/16 16:05	
Pyrene	ug/L	0.0089J	0.038	10/24/16 16:05	
Total PAHs	ug/L	0.041		10/24/16 16:05	
2-Fluorobiphenyl (S)	%	59	25-130	10/24/16 16:05	
Terphenyl-d14 (S)	%	107	13-158	10/24/16 16:05	

LABORATORY CONTROL SAMPLE: 1416489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	0.99	49	35-130	
2-Methylnaphthalene	ug/L	2	0.96	48	36-130	
Acenaphthene	ug/L	2	0.96	48	41-130	
Acenaphthylene	ug/L	2	0.98	49	41-130	
Anthracene	ug/L	2	1.4	69	38-130	
Benzo(a)anthracene	ug/L	2	1.2	58	49-130	
Benzo(a)pyrene	ug/L	2	1.8	91	69-143	
Benzo(b)fluoranthene	ug/L	2	1.5	77	63-146	
Benzo(g,h,i)perylene	ug/L	2	1.5	76	10-145	
Benzo(k)fluoranthene	ug/L	2	2.0	101	64-152	
Chrysene	ug/L	2	2.3	116	64-156	
Dibenz(a,h)anthracene	ug/L	2	1.4	70	10-143	
Fluoranthene	ug/L	2	1.5	77	54-134	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

LABORATORY CONTROL SAMPLE: 1416489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/L	2	0.95	48	44-130	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.8	91	39-140	
Naphthalene	ug/L	2	0.98	49	35-130	
Phenanthrene	ug/L	2	1.2	58	51-130	
Pyrene	ug/L	2	1.5	77	61-140	
Total PAHs	ug/L		25.0			
2-Fluorobiphenyl (S)	%			56	25-130	
Terphenyl-d14 (S)	%			93	13-158	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1416490 1416491

Parameter	Units	40140378010		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
1-Methylnaphthalene	ug/L	<0.0058	1.9	2	0.77	0.85	40	44	16-130	11	30		
2-Methylnaphthalene	ug/L	<0.0049	1.9	2	0.74	0.83	38	42	33-130	11	30		
Acenaphthene	ug/L	<0.0060	1.9	2	0.75	0.88	39	45	29-130	16	27		
Acenaphthylene	ug/L	<0.0049	1.9	2	0.74	0.84	39	43	33-130	12	27		
Anthracene	ug/L	0.016J	1.9	2	1.2	1.2	60	60	26-130	2	31		
Benzo(a)anthracene	ug/L	<0.0075	1.9	2	1.1	1.0	57	53	27-130	6	36		
Benzo(a)pyrene	ug/L	<0.010	1.9	2	1.5	1.6	80	80	16-151	2	44		
Benzo(b)fluoranthene	ug/L	<0.0057	1.9	2	1.3	1.4	69	69	30-142	2	41		
Benzo(g,h,i)perylene	ug/L	<0.0067	1.9	2	1.4	1.3	71	69	10-130	1	50		
Benzo(k)fluoranthene	ug/L	<0.0075	1.9	2	1.6	1.7	84	88	24-152	7	41		
Chrysene	ug/L	<0.013	1.9	2	1.9	2.0	101	101	40-152	2	33		
Dibenz(a,h)anthracene	ug/L	<0.0099	1.9	2	1.2	1.2	64	62	10-130	1	50		
Fluoranthene	ug/L	<0.011	1.9	2	1.4	1.5	74	74	39-140	2	30		
Fluorene	ug/L	<0.0079	1.9	2	0.81	0.87	42	45	35-130	7	26		
Indeno(1,2,3-cd)pyrene	ug/L	<0.017	1.9	2	1.4	1.4	74	71	10-130	1	50		
Naphthalene	ug/L	<0.018	1.9	2	0.76	0.81	39	41	29-130	7	31		
Phenanthrene	ug/L	<0.014	1.9	2	1.1	1.1	59	58	48-130	1	25		
Pyrene	ug/L	0.011J	1.9	2	1.4	1.4	73	72	42-143	0	25		
Total PAHs	ug/L	0.052			21.3	21.9					3		
2-Fluorobiphenyl (S)	%						46	48	25-130				
Terphenyl-d14 (S)	%						77	74	13-158				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40140378

QC Batch: 239153 Analysis Method: EPA 8270 by HVI  
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI  
Associated Lab Samples: 40140378019, 40140378020

METHOD BLANK: 1416990 Matrix: Water  
Associated Lab Samples: 40140378019, 40140378020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	10/26/16 10:24	
2-Methylnaphthalene	ug/L	<0.0049	0.024	10/26/16 10:24	
Acenaphthene	ug/L	<0.0061	0.030	10/26/16 10:24	
Acenaphthylene	ug/L	<0.0050	0.025	10/26/16 10:24	
Anthracene	ug/L	<0.010	0.052	10/26/16 10:24	
Benzo(a)anthracene	ug/L	<0.0076	0.038	10/26/16 10:24	
Benzo(a)pyrene	ug/L	<0.011	0.053	10/26/16 10:24	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	10/26/16 10:24	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	10/26/16 10:24	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	10/26/16 10:24	
Chrysene	ug/L	<0.013	0.065	10/26/16 10:24	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	10/26/16 10:24	
Fluoranthene	ug/L	<0.011	0.053	10/26/16 10:24	
Fluorene	ug/L	<0.0080	0.040	10/26/16 10:24	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	10/26/16 10:24	
Naphthalene	ug/L	<0.018	0.092	10/26/16 10:24	
Phenanthrene	ug/L	<0.014	0.069	10/26/16 10:24	
Pyrene	ug/L	0.0085J	0.038	10/26/16 10:24	
Total PAHs	ug/L	0.013		10/26/16 10:24	
2-Fluorobiphenyl (S)	%	67	25-130	10/26/16 10:24	
Terphenyl-d14 (S)	%	111	13-158	10/26/16 10:24	

LABORATORY CONTROL SAMPLE & LCSD: 1416991 1416992

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.3	1.1	65	56	35-130	16	36	
2-Methylnaphthalene	ug/L	2	1.3	1.1	65	56	36-130	15	37	
Acenaphthene	ug/L	2	1.2	1.1	61	54	41-130	13	32	
Acenaphthylene	ug/L	2	1.3	1.1	64	57	41-130	11	32	
Anthracene	ug/L	2	1.6	1.6	81	81	38-130	0	28	
Benzo(a)anthracene	ug/L	2	1.7	1.5	83	76	49-130	9	27	
Benzo(a)pyrene	ug/L	2	2.0	2.0	102	99	69-143	4	26	
Benzo(b)fluoranthene	ug/L	2	1.8	1.7	89	84	63-146	6	28	
Benzo(g,h,i)perylene	ug/L	2	1.4	1.4	72	71	10-145	2	37	
Benzo(k)fluoranthene	ug/L	2	2.0	2.0	101	99	64-152	2	28	
Chrysene	ug/L	2	2.1	2.2	107	109	64-156	2	26	
Dibenz(a,h)anthracene	ug/L	2	1.5	1.4	76	71	10-143	6	39	
Fluoranthene	ug/L	2	1.7	1.7	83	85	54-134	3	23	
Fluorene	ug/L	2	1.3	1.2	63	59	44-130	7	33	
Indeno(1,2,3-cd)pyrene	ug/L	2	2.0	1.7	98	87	39-140	11	26	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

LABORATORY CONTROL SAMPLE & LCSD: 1416991		1416992									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Naphthalene	ug/L	2	1.2	1.0	62	52	35-130	16	39		
Phenanthrene	ug/L	2	1.5	1.4	73	72	51-130	1	29		
Pyrene	ug/L	2	1.7	1.8	86	89	61-140	3	24		
Total PAHs	ug/L		28.6	27.1				5			
2-Fluorobiphenyl (S)	%				69	62	25-130				
Terphenyl-d14 (S)	%				108	103	13-158				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40140378

QC Batch: 239086 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40140378001

METHOD BLANK: 1416662 Matrix: Water  
Associated Lab Samples: 40140378001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	11/04/16 12:12	

LABORATORY CONTROL SAMPLE: 1416663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.9	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1416664 1416665

Parameter	Units	40140624002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Sulfate	mg/L	15.2	100	100	117	118	102	103	90-110	0	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1416666 1416667

Parameter	Units	40140378001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Sulfate	mg/L	<10.0	200	200	210	212	105	105	90-110	1	15		

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40140378

QC Batch:	239087	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	40140378002, 40140378003, 40140378004, 40140378005, 40140378006, 40140378007, 40140378008, 40140378009, 40140378010, 40140378011, 40140378012, 40140378013, 40140378014, 40140378015, 40140378016, 40140378017, 40140378018, 40140378019, 40140378020		

METHOD BLANK: 1416668 Matrix: Water  
Associated Lab Samples: 40140378002, 40140378003, 40140378004, 40140378005, 40140378006, 40140378007, 40140378008, 40140378009, 40140378010, 40140378011, 40140378012, 40140378013, 40140378014, 40140378015, 40140378016, 40140378017, 40140378018, 40140378019, 40140378020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	11/06/16 17:21	

LABORATORY CONTROL SAMPLE: 1416669

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1416670 1416671

Parameter	Units	40140378002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	159	100	100	258	255	99	97	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1416672 1416673

Parameter	Units	40140385001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	40.9	100	100	148	146	107	105	90-110	2	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1426133 1426134

Parameter	Units	40140378010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	65.2	100	100	168	167	103	102	90-110	1	15	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40140378

QC Batch: 238916 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
Associated Lab Samples: 40140378001, 40140378002, 40140378003, 40140378004, 40140378005, 40140378006, 40140378007, 40140378008, 40140378009, 40140378010, 40140378011, 40140378012, 40140378013, 40140378014, 40140378015, 40140378016, 40140378017, 40140378018, 40140378019, 40140378020

METHOD BLANK: 1415582 Matrix: Water  
Associated Lab Samples: 40140378001, 40140378002, 40140378003, 40140378004, 40140378005, 40140378006, 40140378007, 40140378008, 40140378009, 40140378010, 40140378011, 40140378012, 40140378013, 40140378014, 40140378015, 40140378016, 40140378017, 40140378018, 40140378019, 40140378020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	10/21/16 13:41	

LABORATORY CONTROL SAMPLE: 1415583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	96.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1415584 1415585

Parameter	Units	40140378010 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	263	100	100	473	476	209	212	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1415586 1415587

Parameter	Units	40140378020 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	412	100	100	518	543	106	131	90-110	5	20	P6

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40140378

QC Batch: 239026 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 40140378001

METHOD BLANK: 1416498 Matrix: Water  
Associated Lab Samples: 40140378001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	10/24/16 11:34	

LABORATORY CONTROL SAMPLE: 1416499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1416500 1416501

Parameter	Units	40140217004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.095	2.5	2.5	2.3	2.3	91	91	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1416502 1416503

Parameter	Units	40140378001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.095	2.5	2.5	2.4	2.4	96	95	90-110	1	20	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40140378

QC Batch: 239027 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 40140378002, 40140378003, 40140378004, 40140378005, 40140378006, 40140378007, 40140378008, 40140378009, 40140378010, 40140378011, 40140378012, 40140378013, 40140378014, 40140378015, 40140378016, 40140378017, 40140378018, 40140378019, 40140378020

METHOD BLANK: 1416504 Matrix: Water  
Associated Lab Samples: 40140378002, 40140378003, 40140378004, 40140378005, 40140378006, 40140378007, 40140378008, 40140378009, 40140378010, 40140378011, 40140378012, 40140378013, 40140378014, 40140378015, 40140378016, 40140378017, 40140378018, 40140378019, 40140378020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	10/24/16 12:03	

LABORATORY CONTROL SAMPLE: 1416505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.6	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1416506 1416507

Parameter	Units	40140378010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	3.3	2.5	2.5	5.8	5.8	101	103	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1416508 1416509

Parameter	Units	40140464001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.095	2.5	2.5	2.5	2.5	101	102	90-110	0	20	

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

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### BATCH QUALIFIERS

Batch: 239278

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

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

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

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40140378001	101816001	EPA 8015B Modified	238682		
40140378002	101816002	EPA 8015B Modified	238682		
40140378003	101816003	EPA 8015B Modified	238682		
40140378004	101816004	EPA 8015B Modified	238682		
40140378005	101816005	EPA 8015B Modified	238682		
40140378006	101816006	EPA 8015B Modified	238682		
40140378007	101816007	EPA 8015B Modified	238682		
40140378008	101816008	EPA 8015B Modified	238682		
40140378009	101816009	EPA 8015B Modified	238682		
40140378010	101816010	EPA 8015B Modified	238682		
40140378011	101816011	EPA 8015B Modified	238682		
40140378012	101816012	EPA 8015B Modified	238682		
40140378013	101816013	EPA 8015B Modified	238682		
40140378014	101816014	EPA 8015B Modified	238682		
40140378015	101816015	EPA 8015B Modified	238682		
40140378016	101816016	EPA 8015B Modified	238682		
40140378017	101816017	EPA 8015B Modified	238682		
40140378018	101816018	EPA 8015B Modified	238682		
40140378019	101916019	EPA 8015B Modified	238682		
40140378020	101916020	EPA 8015B Modified	238682		
40140378001	101816001	EPA 3010	239611	EPA 6020	239682
40140378002	101816002	EPA 3010	239611	EPA 6020	239682
40140378003	101816003	EPA 3010	239611	EPA 6020	239682
40140378004	101816004	EPA 3010	239611	EPA 6020	239682
40140378005	101816005	EPA 3010	239611	EPA 6020	239682
40140378006	101816006	EPA 3010	239611	EPA 6020	239682
40140378007	101816007	EPA 3010	239611	EPA 6020	239682
40140378008	101816008	EPA 3010	239611	EPA 6020	239682
40140378009	101816009	EPA 3010	239611	EPA 6020	239682
40140378010	101816010	EPA 3010	239611	EPA 6020	239682
40140378011	101816011	EPA 3010	239611	EPA 6020	239682
40140378012	101816012	EPA 3010	239611	EPA 6020	239682
40140378013	101816013	EPA 3010	239611	EPA 6020	239682
40140378014	101816014	EPA 3010	239611	EPA 6020	239682
40140378015	101816015	EPA 3010	239611	EPA 6020	239682
40140378016	101816016	EPA 3010	239611	EPA 6020	239682
40140378017	101816017	EPA 3010	239611	EPA 6020	239682
40140378018	101816018	EPA 3010	239611	EPA 6020	239682
40140378019	101916019	EPA 3010	239611	EPA 6020	239682
40140378020	101916020	EPA 3010	239611	EPA 6020	239682
40140378001	101816001	EPA 3510	238856	EPA 8270 by HVI	238936
40140378002	101816002	EPA 3510	238856	EPA 8270 by HVI	238936
40140378003	101816003	EPA 3510	238856	EPA 8270 by HVI	238936
40140378004	101816004	EPA 3510	238856	EPA 8270 by HVI	238936
40140378005	101816005	EPA 3510	238856	EPA 8270 by HVI	238936
40140378006	101816006	EPA 3510	238856	EPA 8270 by HVI	238936
40140378007	101816007	EPA 3510	239020	EPA 8270 by HVI	239130

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40140378008	101816008	EPA 3510	239020	EPA 8270 by HVI	239130
40140378009	101816009	EPA 3510	239020	EPA 8270 by HVI	239130
40140378010	101816010	EPA 3510	239020	EPA 8270 by HVI	239130
40140378011	101816011	EPA 3510	239020	EPA 8270 by HVI	239130
40140378012	101816012	EPA 3510	239020	EPA 8270 by HVI	239130
40140378013	101816013	EPA 3510	239020	EPA 8270 by HVI	239130
40140378014	101816014	EPA 3510	239020	EPA 8270 by HVI	239130
40140378015	101816015	EPA 3510	239020	EPA 8270 by HVI	239130
40140378016	101816016	EPA 3510	239020	EPA 8270 by HVI	239130
40140378017	101816017	EPA 3510	239020	EPA 8270 by HVI	239130
40140378018	101816018	EPA 3510	239020	EPA 8270 by HVI	239130
40140378019	101916019	EPA 3510	239153	EPA 8270 by HVI	239278
40140378020	101916020	EPA 3510	239153	EPA 8270 by HVI	239278
40140378001	101816001	EPA 8260	238711		
40140378002	101816002	EPA 8260	238711		
40140378003	101816003	EPA 8260	238706		
40140378004	101816004	EPA 8260	238706		
40140378005	101816005	EPA 8260	238706		
40140378006	101816006	EPA 8260	238706		
40140378007	101816007	EPA 8260	238706		
40140378008	101816008	EPA 8260	238706		
40140378009	101816009	EPA 8260	238706		
40140378010	101816010	EPA 8260	238706		
40140378011	101816011	EPA 8260	238706		
40140378012	101816012	EPA 8260	238706		
40140378013	101816013	EPA 8260	238706		
40140378014	101816014	EPA 8260	238706		
40140378015	101816015	EPA 8260	238706		
40140378016	101816016	EPA 8260	238706		
40140378017	101816017	EPA 8260	238706		
40140378018	101816018	EPA 8260	238706		
40140378019	101916019	EPA 8260	238706		
40140378020	101916020	EPA 8260	238706		
40140378021	101916021	EPA 8260	238706		
40140378022	101916022	EPA 8260	238706		
40140378001	101816001	EPA 300.0	239086		
40140378002	101816002	EPA 300.0	239087		
40140378003	101816003	EPA 300.0	239087		
40140378004	101816004	EPA 300.0	239087		
40140378005	101816005	EPA 300.0	239087		
40140378006	101816006	EPA 300.0	239087		
40140378007	101816007	EPA 300.0	239087		
40140378008	101816008	EPA 300.0	239087		
40140378009	101816009	EPA 300.0	239087		
40140378010	101816010	EPA 300.0	239087		
40140378011	101816011	EPA 300.0	239087		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40140378012	101816012	EPA 300.0	239087		
40140378013	101816013	EPA 300.0	239087		
40140378014	101816014	EPA 300.0	239087		
40140378015	101816015	EPA 300.0	239087		
40140378016	101816016	EPA 300.0	239087		
40140378017	101816017	EPA 300.0	239087		
40140378018	101816018	EPA 300.0	239087		
40140378019	101916019	EPA 300.0	239087		
40140378020	101916020	EPA 300.0	239087		
40140378001	101816001	EPA 310.2	238916		
40140378002	101816002	EPA 310.2	238916		
40140378003	101816003	EPA 310.2	238916		
40140378004	101816004	EPA 310.2	238916		
40140378005	101816005	EPA 310.2	238916		
40140378006	101816006	EPA 310.2	238916		
40140378007	101816007	EPA 310.2	238916		
40140378008	101816008	EPA 310.2	238916		
40140378009	101816009	EPA 310.2	238916		
40140378010	101816010	EPA 310.2	238916		
40140378011	101816011	EPA 310.2	238916		
40140378012	101816012	EPA 310.2	238916		
40140378013	101816013	EPA 310.2	238916		
40140378014	101816014	EPA 310.2	238916		
40140378015	101816015	EPA 310.2	238916		
40140378016	101816016	EPA 310.2	238916		
40140378017	101816017	EPA 310.2	238916		
40140378018	101816018	EPA 310.2	238916		
40140378019	101916019	EPA 310.2	238916		
40140378020	101916020	EPA 310.2	238916		
40140378001	101816001	EPA 353.2	239026		
40140378002	101816002	EPA 353.2	239027		
40140378003	101816003	EPA 353.2	239027		
40140378004	101816004	EPA 353.2	239027		
40140378005	101816005	EPA 353.2	239027		
40140378006	101816006	EPA 353.2	239027		
40140378007	101816007	EPA 353.2	239027		
40140378008	101816008	EPA 353.2	239027		
40140378009	101816009	EPA 353.2	239027		
40140378010	101816010	EPA 353.2	239027		
40140378011	101816011	EPA 353.2	239027		
40140378012	101816012	EPA 353.2	239027		
40140378013	101816013	EPA 353.2	239027		
40140378014	101816014	EPA 353.2	239027		
40140378015	101816015	EPA 353.2	239027		
40140378016	101816016	EPA 353.2	239027		
40140378017	101816017	EPA 353.2	239027		
40140378018	101816018	EPA 353.2	239027		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40140378

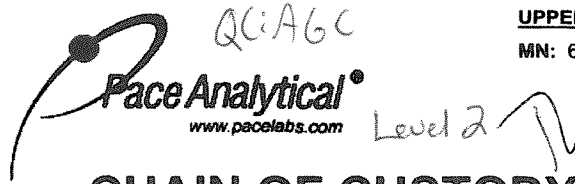
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40140378019	101916019	EPA 353.2	239027		
40140378020	101916020	EPA 353.2	239027		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Natural Resource Technology  
 Branch/Location: Milwaukee, WI  
 Project Contact: Brian Hennings  
 Phone: 414-837-3524  
 Project Number: 1549  
 Project Name: Marinette Former MGP  
 Project State: WI  
 Sampled By (Print): Denise Bond  
 Sampled By (Sign): *Denise Bond*  
 PO #: 3400010643



UPPER MIDWEST REGION

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

Page 1 of

1549-1016-001

40140378

Page 67 of 69

### CHAIN OF CUSTODY

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

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

Y/N	N	N	Y	N	N	N	N
Pick Letter	B	A	D	A	A	B	C
Analyses Requested	BTEX 8260	PAH 8070	Metals* 6080	Alkalinity 310.2	sulfate 300	Methane 8015	Nitrate/Nitrite 353.8

Quote #:   
 Mail To Contact: data@naturalrt.com  
 Mail To Company: Natural Resource Technology  
 Mail To Address: 234 W. Florida St  
 Milwaukee, WI  
 Invoice To Contact: Accounts Payable  
 Invoice To Company: WEC Business Services  
 Invoice To Address: PO Box 19800  
 Green Bay, WI  
 Invoice To Phone: 920-433-2929

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	B	A	D	A	A	B	C	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
		DATE	TIME												
001	101816001	10/18/16	0653	GW	X	X	X	X	X	X	X	X	Aluminum, Antimony, Copper, Nickel, Silver, Vanadium, Zinc, Iron, Manganese	325 mlpcad 2-100mlag	
002	101816002		0744		X	X	X	X	X	X	X	X			
003	101816003		0821		X	X	X	X	X	X	X	X			
004	101816004		0900		X	X	X	X	X	X	X	X			
005	101816005		0943		X	X	X	X	X	X	X	X			
006	101816006		0948		X	X	X	X	X	X	X	X			
007	101816007		1042		X	X	X	X	X	X	X	X			
008	101816008		1120		X	X	X	X	X	X	X	X			
009	101816009		1200		X	X	X	X	X	X	X	X			
010	101816010		1315		X	X	X	X	X	X	X	X	M31M3D184mlvB		
011	101816011		1345		X	X	X	X	X	X	X	X			
012	101816012		1440		X	X	X	X	X	X	X	X			
013	101816013		1514		X	X	X	X	X	X	X	X			

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed:   
 Relinquished By: *Denise Bond* Date/Time: 10/19/16 1027  
 Received By: *Susan Kelly* Date/Time: 10-19-16 1027  
 Transmit Prelim Rush Results by (complete what you want):  
 Relinquished By: Date/Time: Received By: Date/Time:  
 Email #1: Relinquished By: Date/Time: Received By: Date/Time:  
 Email #2: Relinquished By: Date/Time: Received By: Date/Time:  
 Telephone: Relinquished By: Date/Time: Received By: Date/Time:  
 Fax: Relinquished By: Date/Time: Received By: Date/Time:  
 Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 40140378  
 Receipt Temp: *1027*  
 Sample Receipt pH: *OK* / Adjusted  
 Cooler Custody Seal: Present / Not Present  
 Intact / Not Intact

Drop samples at Lab

(Please Print Clearly)

UPPER MIDWEST REGION

Company Name: Natural Resource Technology  
 Branch/Location: Milwaukee, WI  
 Project Contact: Brian Hennings  
 Phone: 414-837-3524  
 Project Number: 1549  
 Project Name: Marinette Former MGP  
 Project State: WI  
 Sampled By (Print): Denise Bond  
 Sampled By (Sign): *Denise Bond*  
 PO #: 3400010643  
 Regulatory Program:



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

1549-1016-002

### CHAIN OF CUSTODY

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

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

Y/N	N	N	Y	N	N	N	N
Pick Letter	B	A	D	A	A	B	C
Analysis Requested	BTEX 8260	PAH 8270	Metals* 6080	Alkalinity 310.2	Sulfate 300	Methane 8015	Nitrate/Nitrite 353.0

Quote #:   
 Mail To Contact: data@naturalrt.com  
 Mail To Company: Natural Resource Technology  
 Mail To Address: 234 W. Florida St. Milwaukee, WI  
 Invoice To Contact: Accounts Payable  
 Invoice To Company: WEC Business Services  
 Invoice To Address: PO Box 19800 Green Bay, WI  
 Invoice To Phone: 920-433-2929  
 CLIENT COMMENTS:   
 LAB COMMENTS (Lab Use Only):   
 Profile #:

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analysis Requested	BTEX 8260	PAH 8270	Metals* 6080	Alkalinity 310.2	Sulfate 300	Methane 8015	Nitrate/Nitrite 353.0
		DATE	TIME									
014	101816014	10/18/16	1557	GL	X	X	X	X	X	X	X	X
015	101816015		1602		X	X	X	X	X	X	X	X
016	101816016		1625		X	X	X	X	X	X	X	X
017	101816017		1707		X	X	X	X	X	X	X	X
018	101816018		1747		X	X	X	X	X	X	X	X
019	101916019	10/19/16	0655		X	X	X	X	X	X	X	X
020	101916020		0745		X	X	X	X	X	X	X	X
021	101916021		0815		X							
022	101916022				X							

*3-250mlp CAD 2-100mlp*  
 Aluminum, Antimony, Copper, Nickel, Silver, Vanadium, Zinc, Iron, Manganese  
 Top 2-40mlp/B

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

Relinquished By: *Denise Bond* Date/Time: 10/19/16 1027  
 Relinquished By:   
 Relinquished By:   
 Relinquished By:   
 Relinquished By:

Received By: *Susan Klyde* Date/Time: 10/19/16 1027  
 Received By:   
 Received By:   
 Received By:   
 Received By:

PACE Project No. 40140378  
 Receipt Temp = *ROT* °C  
 Sample Receipt pH *OK/Adjusted*  
 Cooler Custody Seal Present *Not Present*  
 Intact / Not Intact

Drop Samples at Lab

Sample Condition Upon Receipt

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

**Pace Analytical**  
Client Name: NRT

Project #: **WO# : 40140378**



Courier:  Fed Ex  UPS  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 SR45    Type of Ice:  Wet  Blue Dry None     Samples on ice, cooling process has begun

Cooler Temperature    Uncorr: 4.3 / Corr: 4.3    Biological Tissue is Frozen:  yes

Temp Blank Present:  yes  no     no

Person examining contents:  
Date: 10-19-16  
Initials: [Signature]

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3 ≥ 2, H2SO4 ≥ 2, NaOH+ZnAct ≥ 9, NaOH ≥ 12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
exceptions: VOA, Coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: <u>[Signature]</u> Lab Std #ID of preservative: _____    Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
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):	_____	

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

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: [Signature]    Date: 10-19-16



April 14, 2017

Brian Hennings  
NATURAL RESOURCE TECHNOLOGY  
234 W. Florida St, 5th Floor  
Milwaukee, WI 53204

RE: Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40147697

Dear Brian Hennings:

Enclosed are the analytical results for sample(s) received by the laboratory on April 04, 2017. 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, Natural Resource Technologies



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

---

### 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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40147697

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40147697001	040317001	Water	04/03/17 10:38	04/04/17 13:57
40147697002	040317002	Water	04/03/17 11:31	04/04/17 13:57
40147697003	040317003	Water	04/03/17 12:22	04/04/17 13:57
40147697004	040317004	Water	04/03/17 12:32	04/04/17 13:57
40147697005	040317005	Water	04/03/17 13:55	04/04/17 13:57
40147697006	040317006	Water	04/03/17 14:54	04/04/17 13:57
40147697007	040317007	Water	04/03/17 16:10	04/04/17 13:57
40147697008	040317008	Water	04/03/17 17:27	04/04/17 13:57
40147697009	040317009	Water	04/03/17 17:37	04/04/17 13:57
40147697010	040317010	Water	04/03/17 18:41	04/04/17 13:57
40147697011	040317011	Water	04/03/17 19:48	04/04/17 13:57
40147697012	040417012	Water	04/04/17 07:47	04/04/17 13:57
40147697013	040417013	Water	04/04/17 08:41	04/04/17 13:57
40147697014	040417014	Water	04/04/17 09:42	04/04/17 13:57
40147697015	040417015	Water	04/04/17 10:32	04/04/17 13:57
40147697016	040417016	Water	04/04/17 11:28	04/04/17 13:57
40147697017	040417017	Water	04/04/17 11:58	04/04/17 13:57
40147697018	040417018	Water	04/04/17 00:00	04/04/17 13:57

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40147697

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40147697001	040317001	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40147697002	040317002	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40147697003	040317003	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40147697004	040317004	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40147697005	040317005	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40147697006	040317006	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40147697007	040317007	EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
40147697008	040317008	EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
40147697009	040317009	EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
40147697010	040317010	EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40147697011	040317011	EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
		EPA 8260	LAP	9	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40147697012	040417012	EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
40147697013	040417013	EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
40147697014	040417014	EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
40147697015	040417015	EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G
40147697016	040417016	EPA 300.0	HMB	1	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		EPA 8015B Modified	ALD	1	PASI-G
		EPA 6020	SDW	9	PASI-G
		EPA 8270 by HVI	TPO	21	PASI-G
		EPA 8260	LAP	9	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 310.2	DAW	1	PASI-G
40147697017	040417017	EPA 8260	LAP	9	PASI-G
40147697018	040417018	EPA 8260	LAP	9	PASI-G

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

---

**Method:** EPA 8015B Modified

**Description:** Methane, Ethane, Ethene GCV

**Client:** Natural Resource Technology Integrys WI

**Date:** April 14, 2017

**General Information:**

16 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.

QC Batch: 251846

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40147697006

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

- MS (Lab ID: 1486095)
  - Methane
- MSD (Lab ID: 1486096)
  - Methane

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40147697

---

**Method:** EPA 6020  
**Description:** 6020 MET ICPMS, Dissolved  
**Client:** Natural Resource Technology Integrys WI  
**Date:** April 14, 2017

### General Information:

16 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: 251991

1q: Analyte was measured in the associated method blank at -0.017 ug/L.

- 040317001 (Lab ID: 40147697001)
  - Silver, Dissolved
- 040317002 (Lab ID: 40147697002)
  - Silver, Dissolved
- 040317003 (Lab ID: 40147697003)
  - Silver, Dissolved
- 040317004 (Lab ID: 40147697004)
  - Silver, Dissolved
- 040317005 (Lab ID: 40147697005)
  - Silver, Dissolved

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

---

**Method:** EPA 6020

**Description:** 6020 MET ICPMS, Dissolved

**Client:** Natural Resource Technology Integrys WI

**Date:** April 14, 2017

Analyte Comments:

QC Batch: 251991

1q: Analyte was measured in the associated method blank at -0.017 ug/L.

- 040317006 (Lab ID: 40147697006)
  - Silver, Dissolved
- 040317007 (Lab ID: 40147697007)
  - Silver, Dissolved
- 040317008 (Lab ID: 40147697008)
  - Silver, Dissolved
- 040317009 (Lab ID: 40147697009)
  - Silver, Dissolved
- 040317010 (Lab ID: 40147697010)
  - Silver, Dissolved
- 040317011 (Lab ID: 40147697011)
  - Silver, Dissolved
- 040417012 (Lab ID: 40147697012)
  - Silver, Dissolved
- 040417013 (Lab ID: 40147697013)
  - Silver, Dissolved
- 040417014 (Lab ID: 40147697014)
  - Silver, Dissolved
- 040417015 (Lab ID: 40147697015)
  - Silver, Dissolved
- 040417016 (Lab ID: 40147697016)
  - Silver, Dissolved

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

- 040317006 (Lab ID: 40147697006)
  - Zinc, Dissolved

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

---

**Method:** EPA 8270 by HVI

**Description:** 8270 MSSV PAH by HVI

**Client:** Natural Resource Technology Integrys WI

**Date:** April 14, 2017

**General Information:**

16 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.

**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: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

---

**Method:** EPA 8260

**Description:** 8260 MSV UST

**Client:** Natural Resource Technology Integrys WI

**Date:** April 14, 2017

**General Information:**

18 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: 251862

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

- 040417013 (Lab ID: 40147697013)
  - Dibromofluoromethane (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

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**Method:** EPA 300.0

**Description:** 300.0 IC Anions

**Client:** Natural Resource Technology Integrys WI

**Date:** April 14, 2017

### General Information:

16 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.

H5: Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.

- 040317001 (Lab ID: 40147697001)
- 040317002 (Lab ID: 40147697002)

### 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: 251904

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

- 040317007 (Lab ID: 40147697007)
  - Nitrogen, NO2 plus NO3
- 040317008 (Lab ID: 40147697008)
  - Nitrogen, NO2 plus NO3
- 040317009 (Lab ID: 40147697009)
  - Nitrogen, NO2 plus NO3
- 040317011 (Lab ID: 40147697011)
  - Nitrogen, NO2 plus NO3
- 040417012 (Lab ID: 40147697012)
  - Nitrogen, NO2 plus NO3
- 040417013 (Lab ID: 40147697013)
  - Nitrogen, NO2 plus NO3
- 040417014 (Lab ID: 40147697014)
  - Nitrogen, NO2 plus NO3
- 040417015 (Lab ID: 40147697015)
  - Nitrogen, NO2 plus NO3
- 040417016 (Lab ID: 40147697016)
  - Nitrogen, NO2 plus NO3

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

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**Method:** EPA 300.0

**Description:** 300.0 IC Anions 28 Days

**Client:** Natural Resource Technology Integrys WI

**Date:** April 14, 2017

**General Information:**

16 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.

**Additional Comments:**

Analyte Comments:

QC Batch: 252290

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

- 040317011 (Lab ID: 40147697011)
  - Sulfate
- 040417012 (Lab ID: 40147697012)
  - Sulfate
- 040417013 (Lab ID: 40147697013)
  - Sulfate
- 040417015 (Lab ID: 40147697015)
  - Sulfate
- 040417016 (Lab ID: 40147697016)
  - Sulfate

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## PROJECT NARRATIVE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

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**Method:** EPA 310.2

**Description:** 310.2 Alkalinity

**Client:** Natural Resource Technology Integrys WI

**Date:** April 14, 2017

**General Information:**

16 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: 252255

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40147697016,40147910001

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

- MS (Lab ID: 1488822)
  - Alkalinity, Total as CaCO<sub>3</sub>
- MSD (Lab ID: 1488823)
  - Alkalinity, Total as CaCO<sub>3</sub>

**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: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

**Sample: 040317001**      **Lab ID: 40147697001**      Collected: 04/03/17 10:38      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Methane	<1.4	ug/L	2.8	1.4	1		04/05/17 07:39	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 01:52	7429-90-5	
Antimony, Dissolved	0.077J	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 01:52	7440-36-0	
Copper, Dissolved	2.5	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 01:52	7440-50-8	
Iron, Dissolved	391	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 01:52	7439-89-6	
Manganese, Dissolved	0.28J	ug/L	1.0	0.18	1	04/06/17 09:25	04/10/17 21:17	7439-96-5	
Nickel, Dissolved	0.49J	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 01:52	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 01:52	7440-22-4	1q
Vanadium, Dissolved	0.28J	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 01:52	7440-62-2	
Zinc, Dissolved	7.7J	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 01:52	7440-66-6	
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	<0.0061	ug/L	0.030	0.0061	1	04/10/17 08:30	04/10/17 13:59	83-32-9	
Acenaphthylene	<0.0050	ug/L	0.025	0.0050	1	04/10/17 08:30	04/10/17 13:59	208-96-8	
Anthracene	<0.010	ug/L	0.052	0.010	1	04/10/17 08:30	04/10/17 13:59	120-12-7	
Benzo(a)anthracene	<0.0076	ug/L	0.038	0.0076	1	04/10/17 08:30	04/10/17 13:59	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.053	0.011	1	04/10/17 08:30	04/10/17 13:59	50-32-8	
Benzo(b)fluoranthene	<0.0057	ug/L	0.029	0.0057	1	04/10/17 08:30	04/10/17 13:59	205-99-2	
Benzo(g,h,i)perylene	<0.0068	ug/L	0.034	0.0068	1	04/10/17 08:30	04/10/17 13:59	191-24-2	
Benzo(k)fluoranthene	<0.0076	ug/L	0.038	0.0076	1	04/10/17 08:30	04/10/17 13:59	207-08-9	
Chrysene	<0.013	ug/L	0.065	0.013	1	04/10/17 08:30	04/10/17 13:59	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.050	0.010	1	04/10/17 08:30	04/10/17 13:59	53-70-3	
Fluoranthene	<0.011	ug/L	0.053	0.011	1	04/10/17 08:30	04/10/17 13:59	206-44-0	
Fluorene	<0.0080	ug/L	0.040	0.0080	1	04/10/17 08:30	04/10/17 13:59	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.018	ug/L	0.088	0.018	1	04/10/17 08:30	04/10/17 13:59	193-39-5	
1-Methylnaphthalene	<0.0059	ug/L	0.030	0.0059	1	04/10/17 08:30	04/10/17 13:59	90-12-0	
2-Methylnaphthalene	0.0050J	ug/L	0.024	0.0049	1	04/10/17 08:30	04/10/17 13:59	91-57-6	
Naphthalene	<0.018	ug/L	0.092	0.018	1	04/10/17 08:30	04/10/17 13:59	91-20-3	
Phenanthrene	<0.014	ug/L	0.069	0.014	1	04/10/17 08:30	04/10/17 13:59	85-01-8	
Pyrene	<0.0076	ug/L	0.038	0.0076	1	04/10/17 08:30	04/10/17 13:59	129-00-0	
Total PAHs	0.046	ug/L			1	04/10/17 08:30	04/10/17 13:59		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	58	%	25-130		1	04/10/17 08:30	04/10/17 13:59	321-60-8	
Terphenyl-d14 (S)	80	%	13-158		1	04/10/17 08:30	04/10/17 13:59	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		04/10/17 21:59	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/10/17 21:59	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/10/17 21:59	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/10/17 21:59	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/10/17 21:59	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/10/17 21:59	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	102	%	70-130		1		04/10/17 21:59	1868-53-7	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Project No.: 40147697

**Sample: 040317001**      **Lab ID: 40147697001**      Collected: 04/03/17 10:38      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	99	%	70-130		1		04/10/17 21:59	2037-26-5	
4-Bromofluorobenzene (S)	85	%	70-130		1		04/10/17 21:59	460-00-4	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrogen, NO2 plus NO3	<b>9.6</b>	mg/L	1.9	0.58	5		04/05/17 18:35		H5
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>167</b>	mg/L	30.0	10.0	10		04/11/17 18:43	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>297</b>	mg/L	23.5	7.0	1		04/10/17 13:49		

**Sample: 040317002**      **Lab ID: 40147697002**      Collected: 04/03/17 11:31      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>&lt;1.4</b>	ug/L	2.8	1.4	1		04/05/17 07:45	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 01:59	7429-90-5	
Antimony, Dissolved	<b>0.43J</b>	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 01:59	7440-36-0	
Copper, Dissolved	<b>3.6</b>	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 01:59	7440-50-8	
Iron, Dissolved	<b>41.0J</b>	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 01:59	7439-89-6	
Manganese, Dissolved	<b>0.27J</b>	ug/L	1.0	0.18	1	04/06/17 09:25	04/10/17 21:24	7439-96-5	
Nickel, Dissolved	<b>1.4</b>	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 01:59	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 01:59	7440-22-4	1q
Vanadium, Dissolved	<b>0.41J</b>	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 01:59	7440-62-2	
Zinc, Dissolved	<b>6.8J</b>	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 01:59	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0067</b>	ug/L	0.034	0.0067	1	04/10/17 08:30	04/10/17 14:15	83-32-9	
Acenaphthylene	<b>&lt;0.0055</b>	ug/L	0.028	0.0055	1	04/10/17 08:30	04/10/17 14:15	208-96-8	
Anthracene	<b>&lt;0.012</b>	ug/L	0.058	0.012	1	04/10/17 08:30	04/10/17 14:15	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0084</b>	ug/L	0.042	0.0084	1	04/10/17 08:30	04/10/17 14:15	56-55-3	
Benzo(a)pyrene	<b>&lt;0.012</b>	ug/L	0.058	0.012	1	04/10/17 08:30	04/10/17 14:15	50-32-8	
Benzo(b)fluoranthene	<b>0.011J</b>	ug/L	0.032	0.0064	1	04/10/17 08:30	04/10/17 14:15	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0075</b>	ug/L	0.038	0.0075	1	04/10/17 08:30	04/10/17 14:15	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0084</b>	ug/L	0.042	0.0084	1	04/10/17 08:30	04/10/17 14:15	207-08-9	
Chrysene	<b>&lt;0.014</b>	ug/L	0.072	0.014	1	04/10/17 08:30	04/10/17 14:15	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.011</b>	ug/L	0.056	0.011	1	04/10/17 08:30	04/10/17 14:15	53-70-3	
Fluoranthene	<b>0.019J</b>	ug/L	0.059	0.012	1	04/10/17 08:30	04/10/17 14:15	206-44-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

**Sample: 040317002**      **Lab ID: 40147697002**      Collected: 04/03/17 11:31      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Fluorene	<0.0089	ug/L	0.044	0.0089	1	04/10/17 08:30	04/10/17 14:15	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.020	ug/L	0.098	0.020	1	04/10/17 08:30	04/10/17 14:15	193-39-5	
1-Methylnaphthalene	<0.0066	ug/L	0.033	0.0066	1	04/10/17 08:30	04/10/17 14:15	90-12-0	
2-Methylnaphthalene	<0.0054	ug/L	0.027	0.0054	1	04/10/17 08:30	04/10/17 14:15	91-57-6	
Naphthalene	<0.020	ug/L	0.10	0.020	1	04/10/17 08:30	04/10/17 14:15	91-20-3	
Phenanthrene	0.023J	ug/L	0.077	0.015	1	04/10/17 08:30	04/10/17 14:15	85-01-8	
Pyrene	0.023J	ug/L	0.043	0.0085	1	04/10/17 08:30	04/10/17 14:15	129-00-0	
Total PAHs	0.14	ug/L			1	04/10/17 08:30	04/10/17 14:15		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	61	%	25-130		1	04/10/17 08:30	04/10/17 14:15	321-60-8	
Terphenyl-d14 (S)	83	%	13-158		1	04/10/17 08:30	04/10/17 14:15	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/10/17 22:21	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/10/17 22:21	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/10/17 22:21	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/10/17 22:21	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/10/17 22:21	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/10/17 22:21	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	103	%	70-130		1		04/10/17 22:21	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		04/10/17 22:21	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		04/10/17 22:21	460-00-4	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrogen, NO2 plus NO3	5.3	mg/L	1.9	0.58	5		04/05/17 18:46		H5
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	78.4	mg/L	15.0	5.0	5		04/11/17 18:54	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	265	mg/L	23.5	7.0	1		04/10/17 13:50		

**Sample: 040317003**      **Lab ID: 40147697003**      Collected: 04/03/17 12:22      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	183	ug/L	2.8	1.4	1		04/05/17 07:52	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 02:05	7429-90-5	
Antimony, Dissolved	3.0	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 02:05	7440-36-0	
Copper, Dissolved	5.1	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 02:05	7440-50-8	

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## ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Sample Project No.: 40147697

**Sample: 040317003**      **Lab ID: 40147697003**      Collected: 04/03/17 12:22      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Iron, Dissolved	<b>68.6J</b>	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 02:05	7439-89-6	
Manganese, Dissolved	<b>112</b>	ug/L	1.0	0.18	1	04/06/17 09:25	04/08/17 02:05	7439-96-5	
Nickel, Dissolved	<b>1.3</b>	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 02:05	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 02:05	7440-22-4	1q
Vanadium, Dissolved	<b>3.9</b>	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 02:05	7440-62-2	
Zinc, Dissolved	<b>&lt;3.1</b>	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 02:05	7440-66-6	
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<b>0.93</b>	ug/L	0.035	0.0071	1	04/10/17 08:30	04/10/17 14:31	83-32-9	
Acenaphthylene	<b>0.064</b>	ug/L	0.029	0.0058	1	04/10/17 08:30	04/10/17 14:31	208-96-8	
Anthracene	<b>0.065</b>	ug/L	0.061	0.012	1	04/10/17 08:30	04/10/17 14:31	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0088</b>	ug/L	0.044	0.0088	1	04/10/17 08:30	04/10/17 14:31	56-55-3	
Benzo(a)pyrene	<b>&lt;0.012</b>	ug/L	0.061	0.012	1	04/10/17 08:30	04/10/17 14:31	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0067</b>	ug/L	0.033	0.0067	1	04/10/17 08:30	04/10/17 14:31	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0079</b>	ug/L	0.039	0.0079	1	04/10/17 08:30	04/10/17 14:31	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0088</b>	ug/L	0.044	0.0088	1	04/10/17 08:30	04/10/17 14:31	207-08-9	
Chrysene	<b>&lt;0.015</b>	ug/L	0.076	0.015	1	04/10/17 08:30	04/10/17 14:31	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.012</b>	ug/L	0.058	0.012	1	04/10/17 08:30	04/10/17 14:31	53-70-3	
Fluoranthene	<b>&lt;0.012</b>	ug/L	0.062	0.012	1	04/10/17 08:30	04/10/17 14:31	206-44-0	
Fluorene	<b>0.016J</b>	ug/L	0.046	0.0093	1	04/10/17 08:30	04/10/17 14:31	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.021</b>	ug/L	0.10	0.021	1	04/10/17 08:30	04/10/17 14:31	193-39-5	
1-Methylnaphthalene	<b>1.3</b>	ug/L	0.034	0.0069	1	04/10/17 08:30	04/10/17 14:31	90-12-0	
2-Methylnaphthalene	<b>0.053</b>	ug/L	0.028	0.0057	1	04/10/17 08:30	04/10/17 14:31	91-57-6	
Naphthalene	<b>16.3</b>	ug/L	0.11	0.021	1	04/10/17 08:30	04/10/17 14:31	91-20-3	
Phenanthrene	<b>0.017J</b>	ug/L	0.080	0.016	1	04/10/17 08:30	04/10/17 14:31	85-01-8	
Pyrene	<b>&lt;0.0089</b>	ug/L	0.044	0.0089	1	04/10/17 08:30	04/10/17 14:31	129-00-0	
Total PAHs	<b>18.8</b>	ug/L			1	04/10/17 08:30	04/10/17 14:31		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	59	%	25-130		1	04/10/17 08:30	04/10/17 14:31	321-60-8	
Terphenyl-d14 (S)	78	%	13-158		1	04/10/17 08:30	04/10/17 14:31	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<b>45.9</b>	ug/L	1.0	0.50	1		04/10/17 22:43	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/17 22:43	100-41-4	
Toluene	<b>0.94J</b>	ug/L	1.0	0.50	1		04/10/17 22:43	108-88-3	
Xylene (Total)	<b>6.3</b>	ug/L	3.0	1.5	1		04/10/17 22:43	1330-20-7	
m&p-Xylene	<b>2.3</b>	ug/L	2.0	1.0	1		04/10/17 22:43	179601-23-1	
o-Xylene	<b>4.0</b>	ug/L	1.0	0.50	1		04/10/17 22:43	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	101	%	70-130		1		04/10/17 22:43	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		04/10/17 22:43	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		04/10/17 22:43	460-00-4	
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Nitrogen, NO2 plus NO3	<b>0.33J</b>	mg/L	0.38	0.12	1		04/05/17 10:36		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

Sample: 040317003      Lab ID: 40147697003      Collected: 04/03/17 12:22      Received: 04/04/17 13:57      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	45.7	mg/L	3.0	1.0	1		04/11/17 19:05	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	347	mg/L	117	35.2	5		04/10/17 14:32		

Sample: 040317004      Lab ID: 40147697004      Collected: 04/03/17 12:32      Received: 04/04/17 13:57      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	118	ug/L	2.8	1.4	1		04/05/17 07:59	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 02:12	7429-90-5	
Antimony, Dissolved	3.0	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 02:12	7440-36-0	
Copper, Dissolved	4.9	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 02:12	7440-50-8	
Iron, Dissolved	71.9J	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 02:12	7439-89-6	
Manganese, Dissolved	121	ug/L	1.0	0.18	1	04/06/17 09:25	04/08/17 02:12	7439-96-5	
Nickel, Dissolved	1.4	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 02:12	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 02:12	7440-22-4	1q
Vanadium, Dissolved	3.9	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 02:12	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 02:12	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	0.87	ug/L	0.034	0.0069	1	04/10/17 08:30	04/10/17 19:26	83-32-9	
Acenaphthylene	0.060	ug/L	0.028	0.0057	1	04/10/17 08:30	04/10/17 19:26	208-96-8	
Anthracene	0.072	ug/L	0.059	0.012	1	04/10/17 08:30	04/10/17 19:26	120-12-7	
Benzo(a)anthracene	<0.0086	ug/L	0.043	0.0086	1	04/10/17 08:30	04/10/17 19:26	56-55-3	
Benzo(a)pyrene	<0.012	ug/L	0.060	0.012	1	04/10/17 08:30	04/10/17 19:26	50-32-8	
Benzo(b)fluoranthene	<0.0065	ug/L	0.033	0.0065	1	04/10/17 08:30	04/10/17 19:26	205-99-2	
Benzo(g,h,i)perylene	<0.0077	ug/L	0.039	0.0077	1	04/10/17 08:30	04/10/17 19:26	191-24-2	
Benzo(k)fluoranthene	<0.0086	ug/L	0.043	0.0086	1	04/10/17 08:30	04/10/17 19:26	207-08-9	
Chrysene	<0.015	ug/L	0.074	0.015	1	04/10/17 08:30	04/10/17 19:26	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.057	0.011	1	04/10/17 08:30	04/10/17 19:26	53-70-3	
Fluoranthene	<0.012	ug/L	0.061	0.012	1	04/10/17 08:30	04/10/17 19:26	206-44-0	
Fluorene	0.013J	ug/L	0.045	0.0091	1	04/10/17 08:30	04/10/17 19:26	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.020	ug/L	0.10	0.020	1	04/10/17 08:30	04/10/17 19:26	193-39-5	
1-Methylnaphthalene	1.2	ug/L	0.034	0.0067	1	04/10/17 08:30	04/10/17 19:26	90-12-0	
2-Methylnaphthalene	0.027J	ug/L	0.028	0.0056	1	04/10/17 08:30	04/10/17 19:26	91-57-6	
Naphthalene	15.0	ug/L	0.10	0.021	1	04/10/17 08:30	04/10/17 19:26	91-20-3	
Phenanthrene	0.018J	ug/L	0.078	0.016	1	04/10/17 08:30	04/10/17 19:26	85-01-8	
Pyrene	<0.0087	ug/L	0.043	0.0087	1	04/10/17 08:30	04/10/17 19:26	129-00-0	
Total PAHs	17.3	ug/L			1	04/10/17 08:30	04/10/17 19:26		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Sample Project No.: 40147697

**Sample: 040317004**      **Lab ID: 40147697004**      Collected: 04/03/17 12:32      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	59	%	25-130		1	04/10/17 08:30	04/10/17 19:26	321-60-8	
Terphenyl-d14 (S)	80	%	13-158		1	04/10/17 08:30	04/10/17 19:26	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>56.5</b>	ug/L	1.0	0.50	1		04/10/17 23:05	71-43-2	
Ethylbenzene	<b>0.86J</b>	ug/L	1.0	0.50	1		04/10/17 23:05	100-41-4	
Toluene	<b>1.2</b>	ug/L	1.0	0.50	1		04/10/17 23:05	108-88-3	
Xylene (Total)	<b>8.4</b>	ug/L	3.0	1.5	1		04/10/17 23:05	1330-20-7	
m&p-Xylene	<b>3.1</b>	ug/L	2.0	1.0	1		04/10/17 23:05	179601-23-1	
o-Xylene	<b>5.3</b>	ug/L	1.0	0.50	1		04/10/17 23:05	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	103	%	70-130		1		04/10/17 23:05	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/10/17 23:05	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		04/10/17 23:05	460-00-4	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrogen, NO2 plus NO3	<b>0.32J</b>	mg/L	0.38	0.12	1		04/05/17 10:48		
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>45.5</b>	mg/L	3.0	1.0	1		04/11/17 19:15	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>284</b>	mg/L	117	35.2	5		04/10/17 14:33		

**Sample: 040317005**      **Lab ID: 40147697005**      Collected: 04/03/17 13:55      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>202</b>	ug/L	2.8	1.4	1		04/05/17 08:06	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 02:19	7429-90-5	
Antimony, Dissolved	<b>0.41J</b>	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 02:19	7440-36-0	
Copper, Dissolved	<b>4.6</b>	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 02:19	7440-50-8	
Iron, Dissolved	<b>806</b>	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 02:19	7439-89-6	
Manganese, Dissolved	<b>682</b>	ug/L	1.0	0.18	1	04/06/17 09:25	04/08/17 02:19	7439-96-5	
Nickel, Dissolved	<b>2.1</b>	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 02:19	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 02:19	7440-22-4	1q
Vanadium, Dissolved	<b>0.51J</b>	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 02:19	7440-62-2	
Zinc, Dissolved	<b>3.4J</b>	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 02:19	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

**Sample: 040317005**      **Lab ID: 40147697005**      Collected: 04/03/17 13:55      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510							
Acenaphthene	<b>0.027J</b>	ug/L	0.032	0.0065	1	04/10/17 08:30	04/10/17 18:53	83-32-9	
Acenaphthylene	<b>0.0066J</b>	ug/L	0.026	0.0053	1	04/10/17 08:30	04/10/17 18:53	208-96-8	
Anthracene	<b>0.033J</b>	ug/L	0.056	0.011	1	04/10/17 08:30	04/10/17 18:53	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0080</b>	ug/L	0.040	0.0080	1	04/10/17 08:30	04/10/17 18:53	56-55-3	
Benzo(a)pyrene	<b>&lt;0.011</b>	ug/L	0.056	0.011	1	04/10/17 08:30	04/10/17 18:53	50-32-8	
Benzo(b)fluoranthene	<b>0.014J</b>	ug/L	0.031	0.0061	1	04/10/17 08:30	04/10/17 18:53	205-99-2	
Benzo(g,h,i)perylene	<b>0.0084J</b>	ug/L	0.036	0.0072	1	04/10/17 08:30	04/10/17 18:53	191-24-2	
Benzo(k)fluoranthene	<b>0.012J</b>	ug/L	0.040	0.0080	1	04/10/17 08:30	04/10/17 18:53	207-08-9	
Chrysene	<b>&lt;0.014</b>	ug/L	0.069	0.014	1	04/10/17 08:30	04/10/17 18:53	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.011</b>	ug/L	0.053	0.011	1	04/10/17 08:30	04/10/17 18:53	53-70-3	
Fluoranthene	<b>0.012J</b>	ug/L	0.057	0.011	1	04/10/17 08:30	04/10/17 18:53	206-44-0	
Fluorene	<b>&lt;0.0085</b>	ug/L	0.042	0.0085	1	04/10/17 08:30	04/10/17 18:53	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.019</b>	ug/L	0.094	0.019	1	04/10/17 08:30	04/10/17 18:53	193-39-5	
1-Methylnaphthalene	<b>0.011J</b>	ug/L	0.031	0.0063	1	04/10/17 08:30	04/10/17 18:53	90-12-0	
2-Methylnaphthalene	<b>0.012J</b>	ug/L	0.026	0.0052	1	04/10/17 08:30	04/10/17 18:53	91-57-6	
Naphthalene	<b>0.039J</b>	ug/L	0.097	0.020	1	04/10/17 08:30	04/10/17 18:53	91-20-3	
Phenanthrene	<b>0.019J</b>	ug/L	0.073	0.015	1	04/10/17 08:30	04/10/17 18:53	85-01-8	
Pyrene	<b>0.022J</b>	ug/L	0.041	0.0081	1	04/10/17 08:30	04/10/17 18:53	129-00-0	
Total PAHs	<b>0.23</b>	ug/L			1	04/10/17 08:30	04/10/17 18:53		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	57	%	25-130		1	04/10/17 08:30	04/10/17 18:53	321-60-8	
Terphenyl-d14 (S)	76	%	13-158		1	04/10/17 08:30	04/10/17 18:53	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/17 23:27	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/17 23:27	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/17 23:27	108-88-3	
Xylene (Total)	<b>&lt;1.5</b>	ug/L	3.0	1.5	1		04/10/17 23:27	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/10/17 23:27	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/17 23:27	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	101	%	70-130		1		04/10/17 23:27	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		04/10/17 23:27	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		04/10/17 23:27	460-00-4	
<b>300.0 IC Anions</b>		Analytical Method: EPA 300.0							
Nitrogen, NO2 plus NO3	<b>4.5</b>	mg/L	1.9	0.58	5		04/05/17 10:59		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<b>307</b>	mg/L	60.0	20.0	20		04/12/17 15:22	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	<b>441</b>	mg/L	117	35.2	5		04/10/17 14:34		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40147697

**Sample: 040317006**      **Lab ID: 40147697006**      Collected: 04/03/17 14:54      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>2720</b>	ug/L	56.0	27.4	20		04/05/17 09:38	74-82-8	M1
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 02:26	7429-90-5	
Antimony, Dissolved	<b>1.2</b>	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 02:26	7440-36-0	
Copper, Dissolved	<b>5.6</b>	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 02:26	7440-50-8	
Iron, Dissolved	<b>1530</b>	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 02:26	7439-89-6	
Manganese, Dissolved	<b>185</b>	ug/L	1.0	0.18	1	04/06/17 09:25	04/08/17 02:26	7439-96-5	
Nickel, Dissolved	<b>2.1</b>	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 02:26	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 02:26	7440-22-4	1q
Vanadium, Dissolved	<b>0.94J</b>	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 02:26	7440-62-2	
Zinc, Dissolved	<b>83.8J</b>	ug/L	100	30.5	10	04/06/17 09:25	04/10/17 21:31	7440-66-6	D3
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>0.026J</b>	ug/L	0.031	0.0061	1	04/10/17 08:30	04/10/17 12:21	83-32-9	
Acenaphthylene	<b>&lt;0.0050</b>	ug/L	0.025	0.0050	1	04/10/17 08:30	04/10/17 12:21	208-96-8	
Anthracene	<b>0.020J</b>	ug/L	0.053	0.011	1	04/10/17 08:30	04/10/17 12:21	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0076</b>	ug/L	0.038	0.0076	1	04/10/17 08:30	04/10/17 12:21	56-55-3	
Benzo(a)pyrene	<b>&lt;0.011</b>	ug/L	0.053	0.011	1	04/10/17 08:30	04/10/17 12:21	50-32-8	
Benzo(b)fluoranthene	<b>0.0096J</b>	ug/L	0.029	0.0058	1	04/10/17 08:30	04/10/17 12:21	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0068</b>	ug/L	0.034	0.0068	1	04/10/17 08:30	04/10/17 12:21	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0076</b>	ug/L	0.038	0.0076	1	04/10/17 08:30	04/10/17 12:21	207-08-9	
Chrysene	<b>&lt;0.013</b>	ug/L	0.066	0.013	1	04/10/17 08:30	04/10/17 12:21	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.010</b>	ug/L	0.051	0.010	1	04/10/17 08:30	04/10/17 12:21	53-70-3	
Fluoranthene	<b>0.011J</b>	ug/L	0.054	0.011	1	04/10/17 08:30	04/10/17 12:21	206-44-0	
Fluorene	<b>&lt;0.0081</b>	ug/L	0.040	0.0081	1	04/10/17 08:30	04/10/17 12:21	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.018</b>	ug/L	0.089	0.018	1	04/10/17 08:30	04/10/17 12:21	193-39-5	
1-Methylnaphthalene	<b>0.0084J</b>	ug/L	0.030	0.0060	1	04/10/17 08:30	04/10/17 12:21	90-12-0	
2-Methylnaphthalene	<b>&lt;0.0049</b>	ug/L	0.025	0.0049	1	04/10/17 08:30	04/10/17 12:21	91-57-6	
Naphthalene	<b>0.037J</b>	ug/L	0.093	0.019	1	04/10/17 08:30	04/10/17 12:21	91-20-3	
Phenanthrene	<b>&lt;0.014</b>	ug/L	0.070	0.014	1	04/10/17 08:30	04/10/17 12:21	85-01-8	
Pyrene	<b>0.0090J</b>	ug/L	0.039	0.0077	1	04/10/17 08:30	04/10/17 12:21	129-00-0	
Total PAHs	<b>0.16</b>	ug/L			1	04/10/17 08:30	04/10/17 12:21		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	57	%	25-130		1	04/10/17 08:30	04/10/17 12:21	321-60-8	
Terphenyl-d14 (S)	68	%	13-158		1	04/10/17 08:30	04/10/17 12:21	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/17 17:57	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/17 17:57	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/17 17:57	108-88-3	
Xylene (Total)	<b>&lt;1.5</b>	ug/L	3.0	1.5	1		04/10/17 17:57	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/10/17 17:57	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/10/17 17:57	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	100	%	70-130		1		04/10/17 17:57	1868-53-7	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Project No.: 40147697

**Sample: 040317006**      **Lab ID: 40147697006**      Collected: 04/03/17 14:54      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	101	%	70-130		1		04/10/17 17:57	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		04/10/17 17:57	460-00-4	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrogen, NO2 plus NO3	<b>6.4</b>	mg/L	1.9	0.58	5		04/05/17 11:11		
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>104</b>	mg/L	15.0	5.0	5		04/12/17 15:33	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>287</b>	mg/L	117	35.2	5		04/10/17 13:53		

**Sample: 040317007**      **Lab ID: 40147697007**      Collected: 04/03/17 16:10      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>&lt;1.4</b>	ug/L	2.8	1.4	1		04/05/17 08:19	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 03:07	7429-90-5	
Antimony, Dissolved	<b>0.28J</b>	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 03:07	7440-36-0	
Copper, Dissolved	<b>2.5</b>	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 03:07	7440-50-8	
Iron, Dissolved	<b>&lt;10.0</b>	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 03:07	7439-89-6	
Manganese, Dissolved	<b>251</b>	ug/L	1.0	0.18	1	04/06/17 09:25	04/08/17 03:07	7439-96-5	
Nickel, Dissolved	<b>1.1</b>	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 03:07	7440-02-0	
Silver, Dissolved	<b>0.057J</b>	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 03:07	7440-22-4	1q
Vanadium, Dissolved	<b>0.29J</b>	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 03:07	7440-62-2	
Zinc, Dissolved	<b>4.0J</b>	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 03:07	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0060</b>	ug/L	0.030	0.0060	1	04/10/17 08:30	04/10/17 15:21	83-32-9	
Acenaphthylene	<b>&lt;0.0049</b>	ug/L	0.025	0.0049	1	04/10/17 08:30	04/10/17 15:21	208-96-8	
Anthracene	<b>&lt;0.010</b>	ug/L	0.052	0.010	1	04/10/17 08:30	04/10/17 15:21	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0075</b>	ug/L	0.037	0.0075	1	04/10/17 08:30	04/10/17 15:21	56-55-3	
Benzo(a)pyrene	<b>&lt;0.010</b>	ug/L	0.052	0.010	1	04/10/17 08:30	04/10/17 15:21	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0057</b>	ug/L	0.028	0.0057	1	04/10/17 08:30	04/10/17 15:21	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0067</b>	ug/L	0.034	0.0067	1	04/10/17 08:30	04/10/17 15:21	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0075</b>	ug/L	0.037	0.0075	1	04/10/17 08:30	04/10/17 15:21	207-08-9	
Chrysene	<b>&lt;0.013</b>	ug/L	0.065	0.013	1	04/10/17 08:30	04/10/17 15:21	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.0099</b>	ug/L	0.050	0.0099	1	04/10/17 08:30	04/10/17 15:21	53-70-3	
Fluoranthene	<b>&lt;0.011</b>	ug/L	0.053	0.011	1	04/10/17 08:30	04/10/17 15:21	206-44-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40147697

Sample: 040317007 Lab ID: 40147697007 Collected: 04/03/17 16:10 Received: 04/04/17 13:57 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Fluorene	<0.0079	ug/L	0.039	0.0079	1	04/10/17 08:30	04/10/17 15:21	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.087	0.017	1	04/10/17 08:30	04/10/17 15:21	193-39-5	
1-Methylnaphthalene	<0.0058	ug/L	0.029	0.0058	1	04/10/17 08:30	04/10/17 15:21	90-12-0	
2-Methylnaphthalene	<0.0049	ug/L	0.024	0.0049	1	04/10/17 08:30	04/10/17 15:21	91-57-6	
Naphthalene	<0.018	ug/L	0.091	0.018	1	04/10/17 08:30	04/10/17 15:21	91-20-3	
Phenanthrene	<0.014	ug/L	0.068	0.014	1	04/10/17 08:30	04/10/17 15:21	85-01-8	
Pyrene	<0.0076	ug/L	0.038	0.0076	1	04/10/17 08:30	04/10/17 15:21	129-00-0	
Total PAHs	0.037	ug/L			1	04/10/17 08:30	04/10/17 15:21		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	55	%	25-130		1	04/10/17 08:30	04/10/17 15:21	321-60-8	
Terphenyl-d14 (S)	84	%	13-158		1	04/10/17 08:30	04/10/17 15:21	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/10/17 23:49	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/10/17 23:49	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/10/17 23:49	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/10/17 23:49	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/10/17 23:49	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/10/17 23:49	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	102	%	70-130		1		04/10/17 23:49	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/10/17 23:49	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		04/10/17 23:49	460-00-4	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrogen, NO2 plus NO3	1.6J	mg/L	1.9	0.58	5		04/05/17 11:22		D3
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	125	mg/L	15.0	5.0	5		04/11/17 20:42	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	352	mg/L	23.5	7.0	1		04/10/17 13:58		

Sample: 040317008 Lab ID: 40147697008 Collected: 04/03/17 17:27 Received: 04/04/17 13:57 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	16.4	ug/L	2.8	1.4	1		04/05/17 08:26	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 03:13	7429-90-5	
Antimony, Dissolved	0.18J	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 03:13	7440-36-0	
Copper, Dissolved	2.2	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 03:13	7440-50-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Sample Project No.: 40147697

**Sample: 040317008**      **Lab ID: 40147697008**      Collected: 04/03/17 17:27      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Iron, Dissolved	5430	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 03:13	7439-89-6	
Manganese, Dissolved	2250	ug/L	1.0	0.18	1	04/06/17 09:25	04/08/17 03:13	7439-96-5	
Nickel, Dissolved	6.6	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 03:13	7440-02-0	
Silver, Dissolved	0.019J	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 03:13	7440-22-4	1q
Vanadium, Dissolved	0.64J	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 03:13	7440-62-2	
Zinc, Dissolved	117	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 03:13	7440-66-6	
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<0.0067	ug/L	0.034	0.0067	1	04/10/17 08:30	04/10/17 15:37	83-32-9	
Acenaphthylene	<0.0055	ug/L	0.028	0.0055	1	04/10/17 08:30	04/10/17 15:37	208-96-8	
Anthracene	<0.012	ug/L	0.058	0.012	1	04/10/17 08:30	04/10/17 15:37	120-12-7	
Benzo(a)anthracene	<0.0084	ug/L	0.042	0.0084	1	04/10/17 08:30	04/10/17 15:37	56-55-3	
Benzo(a)pyrene	<0.012	ug/L	0.058	0.012	1	04/10/17 08:30	04/10/17 15:37	50-32-8	
Benzo(b)fluoranthene	0.0072J	ug/L	0.032	0.0064	1	04/10/17 08:30	04/10/17 15:37	205-99-2	
Benzo(g,h,i)perylene	<0.0075	ug/L	0.038	0.0075	1	04/10/17 08:30	04/10/17 15:37	191-24-2	
Benzo(k)fluoranthene	<0.0084	ug/L	0.042	0.0084	1	04/10/17 08:30	04/10/17 15:37	207-08-9	
Chrysene	<0.014	ug/L	0.072	0.014	1	04/10/17 08:30	04/10/17 15:37	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.056	0.011	1	04/10/17 08:30	04/10/17 15:37	53-70-3	
Fluoranthene	<0.012	ug/L	0.059	0.012	1	04/10/17 08:30	04/10/17 15:37	206-44-0	
Fluorene	<0.0089	ug/L	0.044	0.0089	1	04/10/17 08:30	04/10/17 15:37	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.020	ug/L	0.098	0.020	1	04/10/17 08:30	04/10/17 15:37	193-39-5	
1-Methylnaphthalene	<0.0066	ug/L	0.033	0.0066	1	04/10/17 08:30	04/10/17 15:37	90-12-0	
2-Methylnaphthalene	<0.0054	ug/L	0.027	0.0054	1	04/10/17 08:30	04/10/17 15:37	91-57-6	
Naphthalene	<0.020	ug/L	0.10	0.020	1	04/10/17 08:30	04/10/17 15:37	91-20-3	
Phenanthrene	<0.015	ug/L	0.077	0.015	1	04/10/17 08:30	04/10/17 15:37	85-01-8	
Pyrene	0.0098J	ug/L	0.043	0.0085	1	04/10/17 08:30	04/10/17 15:37	129-00-0	
Total PAHs	0.059	ug/L			1	04/10/17 08:30	04/10/17 15:37		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	25-130		1	04/10/17 08:30	04/10/17 15:37	321-60-8	
Terphenyl-d14 (S)	79	%	13-158		1	04/10/17 08:30	04/10/17 15:37	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/11/17 00:11	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 00:11	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/11/17 00:11	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/11/17 00:11	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/11/17 00:11	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/11/17 00:11	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	102	%	70-130		1		04/11/17 00:11	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/11/17 00:11	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		04/11/17 00:11	460-00-4	
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Nitrogen, NO2 plus NO3	0.60J	mg/L	1.9	0.58	5		04/05/17 11:34		D3

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

**Sample: 040317008**      **Lab ID: 40147697008**      Collected: 04/03/17 17:27      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<b>584</b>	mg/L	60.0	20.0	20		04/11/17 20:53	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<b>618</b>	mg/L	117	35.2	5		04/10/17 14:36		

**Sample: 040317009**      **Lab ID: 40147697009**      Collected: 04/03/17 17:37      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>22.3</b>	ug/L	2.8	1.4	1		04/05/17 08:33	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 03:20	7429-90-5	
Antimony, Dissolved	<b>0.12J</b>	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 03:20	7440-36-0	
Copper, Dissolved	<b>2.5</b>	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 03:20	7440-50-8	
Iron, Dissolved	<b>5120</b>	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 03:20	7439-89-6	
Manganese, Dissolved	<b>2190</b>	ug/L	1.0	0.18	1	04/06/17 09:25	04/08/17 03:20	7439-96-5	
Nickel, Dissolved	<b>7.4</b>	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 03:20	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 03:20	7440-22-4	1q
Vanadium, Dissolved	<b>0.52J</b>	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 03:20	7440-62-2	
Zinc, Dissolved	<b>116</b>	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 03:20	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>&lt;0.0064</b>	ug/L	0.032	0.0064	1	04/10/17 08:30	04/10/17 15:53	83-32-9	
Acenaphthylene	<b>&lt;0.0052</b>	ug/L	0.026	0.0052	1	04/10/17 08:30	04/10/17 15:53	208-96-8	
Anthracene	<b>&lt;0.011</b>	ug/L	0.055	0.011	1	04/10/17 08:30	04/10/17 15:53	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0079</b>	ug/L	0.040	0.0079	1	04/10/17 08:30	04/10/17 15:53	56-55-3	
Benzo(a)pyrene	<b>&lt;0.011</b>	ug/L	0.055	0.011	1	04/10/17 08:30	04/10/17 15:53	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0060</b>	ug/L	0.030	0.0060	1	04/10/17 08:30	04/10/17 15:53	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0071</b>	ug/L	0.036	0.0071	1	04/10/17 08:30	04/10/17 15:53	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0079</b>	ug/L	0.040	0.0079	1	04/10/17 08:30	04/10/17 15:53	207-08-9	
Chrysene	<b>&lt;0.014</b>	ug/L	0.069	0.014	1	04/10/17 08:30	04/10/17 15:53	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.011</b>	ug/L	0.053	0.011	1	04/10/17 08:30	04/10/17 15:53	53-70-3	
Fluoranthene	<b>&lt;0.011</b>	ug/L	0.056	0.011	1	04/10/17 08:30	04/10/17 15:53	206-44-0	
Fluorene	<b>&lt;0.0084</b>	ug/L	0.042	0.0084	1	04/10/17 08:30	04/10/17 15:53	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.019</b>	ug/L	0.093	0.019	1	04/10/17 08:30	04/10/17 15:53	193-39-5	
1-Methylnaphthalene	<b>&lt;0.0062</b>	ug/L	0.031	0.0062	1	04/10/17 08:30	04/10/17 15:53	90-12-0	
2-Methylnaphthalene	<b>0.0067J</b>	ug/L	0.026	0.0052	1	04/10/17 08:30	04/10/17 15:53	91-57-6	
Naphthalene	<b>0.022J</b>	ug/L	0.096	0.019	1	04/10/17 08:30	04/10/17 15:53	91-20-3	
Phenanthrene	<b>&lt;0.015</b>	ug/L	0.073	0.015	1	04/10/17 08:30	04/10/17 15:53	85-01-8	
Pyrene	<b>&lt;0.0081</b>	ug/L	0.040	0.0081	1	04/10/17 08:30	04/10/17 15:53	129-00-0	
Total PAHs	<b>0.053</b>	ug/L			1	04/10/17 08:30	04/10/17 15:53		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP  
Project No.: 40147697

**Sample: 040317009**      **Lab ID: 40147697009**      Collected: 04/03/17 17:37      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	64	%	25-130		1	04/10/17 08:30	04/10/17 15:53	321-60-8	
Terphenyl-d14 (S)	85	%	13-158		1	04/10/17 08:30	04/10/17 15:53	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/11/17 00:33	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 00:33	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/11/17 00:33	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/11/17 00:33	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/11/17 00:33	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/11/17 00:33	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	101	%	70-130		1		04/11/17 00:33	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/11/17 00:33	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		04/11/17 00:33	460-00-4	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrogen, NO2 plus NO3	<0.58	mg/L	1.9	0.58	5		04/05/17 15:25		D3
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	544	mg/L	60.0	20.0	20		04/11/17 21:04	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	630	mg/L	117	35.2	5		04/10/17 14:37		

**Sample: 040317010**      **Lab ID: 40147697010**      Collected: 04/03/17 18:41      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<1.4	ug/L	2.8	1.4	1		04/05/17 08:40	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 03:27	7429-90-5	
Antimony, Dissolved	0.64J	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 03:27	7440-36-0	
Copper, Dissolved	4.6	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 03:27	7440-50-8	
Iron, Dissolved	21.3J	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 03:27	7439-89-6	
Manganese, Dissolved	2.9	ug/L	1.0	0.18	1	04/06/17 09:25	04/08/17 03:27	7439-96-5	
Nickel, Dissolved	1.2	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 03:27	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 03:27	7440-22-4	1q
Vanadium, Dissolved	1.2	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 03:27	7440-62-2	
Zinc, Dissolved	18.2	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 03:27	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

**Sample: 040317010**      **Lab ID: 40147697010**      Collected: 04/03/17 18:41      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510							
Acenaphthene	<b>0.0071J</b>	ug/L	0.034	0.0068	1	04/10/17 08:30	04/10/17 16:10	83-32-9	
Acenaphthylene	<b>&lt;0.0056</b>	ug/L	0.028	0.0056	1	04/10/17 08:30	04/10/17 16:10	208-96-8	
Anthracene	<b>0.018J</b>	ug/L	0.059	0.012	1	04/10/17 08:30	04/10/17 16:10	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0085</b>	ug/L	0.042	0.0085	1	04/10/17 08:30	04/10/17 16:10	56-55-3	
Benzo(a)pyrene	<b>&lt;0.012</b>	ug/L	0.059	0.012	1	04/10/17 08:30	04/10/17 16:10	50-32-8	
Benzo(b)fluoranthene	<b>0.015J</b>	ug/L	0.032	0.0064	1	04/10/17 08:30	04/10/17 16:10	205-99-2	
Benzo(g,h,i)perylene	<b>0.010J</b>	ug/L	0.038	0.0076	1	04/10/17 08:30	04/10/17 16:10	191-24-2	
Benzo(k)fluoranthene	<b>0.014J</b>	ug/L	0.042	0.0085	1	04/10/17 08:30	04/10/17 16:10	207-08-9	
Chrysene	<b>&lt;0.015</b>	ug/L	0.073	0.015	1	04/10/17 08:30	04/10/17 16:10	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.011</b>	ug/L	0.056	0.011	1	04/10/17 08:30	04/10/17 16:10	53-70-3	
Fluoranthene	<b>0.016J</b>	ug/L	0.060	0.012	1	04/10/17 08:30	04/10/17 16:10	206-44-0	
Fluorene	<b>&lt;0.0090</b>	ug/L	0.045	0.0090	1	04/10/17 08:30	04/10/17 16:10	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.020</b>	ug/L	0.099	0.020	1	04/10/17 08:30	04/10/17 16:10	193-39-5	
1-Methylnaphthalene	<b>&lt;0.0066</b>	ug/L	0.033	0.0066	1	04/10/17 08:30	04/10/17 16:10	90-12-0	
2-Methylnaphthalene	<b>&lt;0.0055</b>	ug/L	0.028	0.0055	1	04/10/17 08:30	04/10/17 16:10	91-57-6	
Naphthalene	<b>&lt;0.021</b>	ug/L	0.10	0.021	1	04/10/17 08:30	04/10/17 16:10	91-20-3	
Phenanthrene	<b>&lt;0.015</b>	ug/L	0.077	0.015	1	04/10/17 08:30	04/10/17 16:10	85-01-8	
Pyrene	<b>0.021J</b>	ug/L	0.043	0.0086	1	04/10/17 08:30	04/10/17 16:10	129-00-0	
Total PAHs	<b>0.15</b>	ug/L			1	04/10/17 08:30	04/10/17 16:10		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	73	%	25-130		1	04/10/17 08:30	04/10/17 16:10	321-60-8	
Terphenyl-d14 (S)	81	%	13-158		1	04/10/17 08:30	04/10/17 16:10	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/11/17 00:55	71-43-2	
Ethylbenzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/11/17 00:55	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/11/17 00:55	108-88-3	
Xylene (Total)	<b>&lt;1.5</b>	ug/L	3.0	1.5	1		04/11/17 00:55	1330-20-7	
m&p-Xylene	<b>&lt;1.0</b>	ug/L	2.0	1.0	1		04/11/17 00:55	179601-23-1	
o-Xylene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/11/17 00:55	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	102	%	70-130		1		04/11/17 00:55	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		04/11/17 00:55	2037-26-5	
4-Bromofluorobenzene (S)	83	%	70-130		1		04/11/17 00:55	460-00-4	
<b>300.0 IC Anions</b>		Analytical Method: EPA 300.0							
Nitrogen, NO2 plus NO3	<b>10.7</b>	mg/L	1.9	0.58	5		04/05/17 12:43		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	<b>154</b>	mg/L	15.0	5.0	5		04/11/17 21:14	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	<b>379</b>	mg/L	23.5	7.0	1		04/10/17 13:59		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

**Sample: 040317011**      **Lab ID: 40147697011**      Collected: 04/03/17 19:48      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	<b>2330</b>	ug/L	56.0	27.4	20		04/05/17 10:00	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<b>&lt;68.7</b>	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 03:34	7429-90-5	
Antimony, Dissolved	<b>0.089J</b>	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 03:34	7440-36-0	
Copper, Dissolved	<b>0.37J</b>	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 03:34	7440-50-8	
Iron, Dissolved	<b>11200</b>	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 03:34	7439-89-6	
Manganese, Dissolved	<b>405</b>	ug/L	1.0	0.18	1	04/06/17 09:25	04/08/17 03:34	7439-96-5	
Nickel, Dissolved	<b>0.45J</b>	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 03:34	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 03:34	7440-22-4	1q
Vanadium, Dissolved	<b>1.9</b>	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 03:34	7440-62-2	
Zinc, Dissolved	<b>&lt;3.1</b>	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 03:34	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	<b>0.17</b>	ug/L	0.035	0.0070	1	04/10/17 08:30	04/10/17 16:26	83-32-9	
Acenaphthylene	<b>0.012J</b>	ug/L	0.029	0.0057	1	04/10/17 08:30	04/10/17 16:26	208-96-8	
Anthracene	<b>&lt;0.012</b>	ug/L	0.060	0.012	1	04/10/17 08:30	04/10/17 16:26	120-12-7	
Benzo(a)anthracene	<b>&lt;0.0087</b>	ug/L	0.043	0.0087	1	04/10/17 08:30	04/10/17 16:26	56-55-3	
Benzo(a)pyrene	<b>&lt;0.012</b>	ug/L	0.060	0.012	1	04/10/17 08:30	04/10/17 16:26	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0066</b>	ug/L	0.033	0.0066	1	04/10/17 08:30	04/10/17 16:26	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0078</b>	ug/L	0.039	0.0078	1	04/10/17 08:30	04/10/17 16:26	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0087</b>	ug/L	0.043	0.0087	1	04/10/17 08:30	04/10/17 16:26	207-08-9	
Chrysene	<b>&lt;0.015</b>	ug/L	0.075	0.015	1	04/10/17 08:30	04/10/17 16:26	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.012</b>	ug/L	0.058	0.012	1	04/10/17 08:30	04/10/17 16:26	53-70-3	
Fluoranthene	<b>&lt;0.012</b>	ug/L	0.061	0.012	1	04/10/17 08:30	04/10/17 16:26	206-44-0	
Fluorene	<b>&lt;0.0092</b>	ug/L	0.046	0.0092	1	04/10/17 08:30	04/10/17 16:26	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.020</b>	ug/L	0.10	0.020	1	04/10/17 08:30	04/10/17 16:26	193-39-5	
1-Methylnaphthalene	<b>0.074</b>	ug/L	0.034	0.0068	1	04/10/17 08:30	04/10/17 16:26	90-12-0	
2-Methylnaphthalene	<b>&lt;0.0056</b>	ug/L	0.028	0.0056	1	04/10/17 08:30	04/10/17 16:26	91-57-6	
Naphthalene	<b>&lt;0.021</b>	ug/L	0.11	0.021	1	04/10/17 08:30	04/10/17 16:26	91-20-3	
Phenanthrene	<b>&lt;0.016</b>	ug/L	0.079	0.016	1	04/10/17 08:30	04/10/17 16:26	85-01-8	
Pyrene	<b>0.15</b>	ug/L	0.044	0.0088	1	04/10/17 08:30	04/10/17 16:26	129-00-0	
Total PAHs	<b>0.45</b>	ug/L			1	04/10/17 08:30	04/10/17 16:26		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	52	%	25-130		1	04/10/17 08:30	04/10/17 16:26	321-60-8	
Terphenyl-d14 (S)	70	%	13-158		1	04/10/17 08:30	04/10/17 16:26	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/11/17 01:17	71-43-2	
Ethylbenzene	<b>1.6</b>	ug/L	1.0	0.50	1		04/11/17 01:17	100-41-4	
Toluene	<b>&lt;0.50</b>	ug/L	1.0	0.50	1		04/11/17 01:17	108-88-3	
Xylene (Total)	<b>12.1</b>	ug/L	3.0	1.5	1		04/11/17 01:17	1330-20-7	
m&p-Xylene	<b>2.5</b>	ug/L	2.0	1.0	1		04/11/17 01:17	179601-23-1	
o-Xylene	<b>9.5</b>	ug/L	1.0	0.50	1		04/11/17 01:17	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	102	%	70-130		1		04/11/17 01:17	1868-53-7	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Sample Project No.: 40147697

**Sample: 040317011**      **Lab ID: 40147697011**      Collected: 04/03/17 19:48      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	100	%	70-130		1		04/11/17 01:17	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		04/11/17 01:17	460-00-4	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrogen, NO2 plus NO3	<0.58	mg/L	1.9	0.58	5		04/05/17 12:55		D3
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<5.0	mg/L	15.0	5.0	5		04/11/17 21:25	14808-79-8	D3
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	151	mg/L	23.5	7.0	1		04/10/17 14:00		

**Sample: 040417012**      **Lab ID: 40147697012**      Collected: 04/04/17 07:47      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	9280	ug/L	280	137	100		04/05/17 10:07	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 03:40	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 03:40	7440-36-0	
Copper, Dissolved	<0.26	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 03:40	7440-50-8	
Iron, Dissolved	39100	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 03:40	7439-89-6	
Manganese, Dissolved	439	ug/L	1.0	0.18	1	04/06/17 09:25	04/08/17 03:40	7439-96-5	
Nickel, Dissolved	0.38J	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 03:40	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 03:40	7440-22-4	1q
Vanadium, Dissolved	<0.15	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 03:40	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 03:40	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	1.6	ug/L	0.031	0.0063	1	04/10/17 08:30	04/10/17 18:04	83-32-9	
Acenaphthylene	0.066	ug/L	0.026	0.0051	1	04/10/17 08:30	04/10/17 18:04	208-96-8	
Anthracene	0.090	ug/L	0.054	0.011	1	04/10/17 08:30	04/10/17 18:04	120-12-7	
Benzo(a)anthracene	<0.0078	ug/L	0.039	0.0078	1	04/10/17 08:30	04/10/17 18:04	56-55-3	
Benzo(a)pyrene	0.013J	ug/L	0.054	0.011	1	04/10/17 08:30	04/10/17 18:04	50-32-8	
Benzo(b)fluoranthene	0.033	ug/L	0.030	0.0059	1	04/10/17 08:30	04/10/17 18:04	205-99-2	
Benzo(g,h,i)perylene	0.017J	ug/L	0.035	0.0070	1	04/10/17 08:30	04/10/17 18:04	191-24-2	
Benzo(k)fluoranthene	0.029J	ug/L	0.039	0.0078	1	04/10/17 08:30	04/10/17 18:04	207-08-9	
Chrysene	0.048J	ug/L	0.067	0.013	1	04/10/17 08:30	04/10/17 18:04	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.052	0.010	1	04/10/17 08:30	04/10/17 18:04	53-70-3	
Fluoranthene	0.21	ug/L	0.055	0.011	1	04/10/17 08:30	04/10/17 18:04	206-44-0	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

Sample: 040417012 Lab ID: 40147697012 Collected: 04/04/17 07:47 Received: 04/04/17 13:57 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Fluorene	0.26	ug/L	0.041	0.0082	1	04/10/17 08:30	04/10/17 18:04	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.018	ug/L	0.091	0.018	1	04/10/17 08:30	04/10/17 18:04	193-39-5	
1-Methylnaphthalene	0.21	ug/L	0.030	0.0061	1	04/10/17 08:30	04/10/17 18:04	90-12-0	
2-Methylnaphthalene	0.0068J	ug/L	0.025	0.0051	1	04/10/17 08:30	04/10/17 18:04	91-57-6	
Naphthalene	0.073J	ug/L	0.094	0.019	1	04/10/17 08:30	04/10/17 18:04	91-20-3	
Phenanthrene	0.22	ug/L	0.071	0.014	1	04/10/17 08:30	04/10/17 18:04	85-01-8	
Pyrene	0.20	ug/L	0.039	0.0079	1	04/10/17 08:30	04/10/17 18:04	129-00-0	
Total PAHs	3.1	ug/L			1	04/10/17 08:30	04/10/17 18:04		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	55	%	25-130		1	04/10/17 08:30	04/10/17 18:04	321-60-8	
Terphenyl-d14 (S)	74	%	13-158		1	04/10/17 08:30	04/10/17 18:04	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/11/17 01:39	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 01:39	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/11/17 01:39	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/11/17 01:39	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/11/17 01:39	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/11/17 01:39	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	101	%	70-130		1		04/11/17 01:39	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/11/17 01:39	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		04/11/17 01:39	460-00-4	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrogen, NO2 plus NO3	<0.58	mg/L	1.9	0.58	5		04/05/17 13:06		D3
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<5.0	mg/L	15.0	5.0	5		04/11/17 21:36	14808-79-8	D3
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	400	mg/L	117	35.2	5		04/10/17 14:38		

Sample: 040417013 Lab ID: 40147697013 Collected: 04/04/17 08:41 Received: 04/04/17 13:57 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	4450	ug/L	70.0	34.2	25		04/05/17 10:14	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 03:47	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 03:47	7440-36-0	
Copper, Dissolved	<0.26	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 03:47	7440-50-8	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Sample Project No.: 40147697

**Sample: 040417013**      **Lab ID: 40147697013**      Collected: 04/04/17 08:41      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020    Preparation Method: EPA 3010									
Iron, Dissolved	<b>32200</b>	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 03:47	7439-89-6	
Manganese, Dissolved	<b>1190</b>	ug/L	1.0	0.18	1	04/06/17 09:25	04/08/17 03:47	7439-96-5	
Nickel, Dissolved	<b>0.52J</b>	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 03:47	7440-02-0	
Silver, Dissolved	<b>&lt;0.016</b>	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 03:47	7440-22-4	1q
Vanadium, Dissolved	<b>1.6</b>	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 03:47	7440-62-2	
Zinc, Dissolved	<b>&lt;3.1</b>	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 03:47	7440-66-6	
<b>8270 MSSV PAH by HVI</b>									
Analytical Method: EPA 8270 by HVI    Preparation Method: EPA 3510									
Acenaphthene	<b>81.1</b>	ug/L	1.6	0.31	50	04/10/17 08:30	04/10/17 19:42	83-32-9	
Acenaphthylene	<b>1.5</b>	ug/L	1.3	0.26	50	04/10/17 08:30	04/10/17 19:42	208-96-8	
Anthracene	<b>5.3</b>	ug/L	2.7	0.54	50	04/10/17 08:30	04/10/17 19:42	120-12-7	
Benzo(a)anthracene	<b>&lt;0.39</b>	ug/L	1.9	0.39	50	04/10/17 08:30	04/10/17 19:42	56-55-3	
Benzo(a)pyrene	<b>&lt;0.54</b>	ug/L	2.7	0.54	50	04/10/17 08:30	04/10/17 19:42	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.30</b>	ug/L	1.5	0.30	50	04/10/17 08:30	04/10/17 19:42	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.35</b>	ug/L	1.7	0.35	50	04/10/17 08:30	04/10/17 19:42	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.39</b>	ug/L	1.9	0.39	50	04/10/17 08:30	04/10/17 19:42	207-08-9	
Chrysene	<b>&lt;0.67</b>	ug/L	3.4	0.67	50	04/10/17 08:30	04/10/17 19:42	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.52</b>	ug/L	2.6	0.52	50	04/10/17 08:30	04/10/17 19:42	53-70-3	
Fluoranthene	<b>1.9J</b>	ug/L	2.8	0.55	50	04/10/17 08:30	04/10/17 19:42	206-44-0	
Fluorene	<b>17.1</b>	ug/L	2.1	0.41	50	04/10/17 08:30	04/10/17 19:42	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.91</b>	ug/L	4.5	0.91	50	04/10/17 08:30	04/10/17 19:42	193-39-5	
1-Methylnaphthalene	<b>90.6</b>	ug/L	1.5	0.30	50	04/10/17 08:30	04/10/17 19:42	90-12-0	
2-Methylnaphthalene	<b>25.2</b>	ug/L	1.3	0.25	50	04/10/17 08:30	04/10/17 19:42	91-57-6	
Naphthalene	<b>640</b>	ug/L	4.7	0.94	50	04/10/17 08:30	04/10/17 19:42	91-20-3	
Phenanthrene	<b>20.0</b>	ug/L	3.6	0.71	50	04/10/17 08:30	04/10/17 19:42	85-01-8	
Pyrene	<b>1.9J</b>	ug/L	2.0	0.39	50	04/10/17 08:30	04/10/17 19:42	129-00-0	
Total PAHs	<b>884</b>	ug/L			50	04/10/17 08:30	04/10/17 19:42		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	66	%	25-130		50	04/10/17 08:30	04/10/17 19:42	321-60-8	
Terphenyl-d14 (S)	69	%	13-158		50	04/10/17 08:30	04/10/17 19:42	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Benzene	<b>215</b>	ug/L	20.0	10.0	20		04/11/17 03:29	71-43-2	
Ethylbenzene	<b>141</b>	ug/L	20.0	10.0	20		04/11/17 03:29	100-41-4	
Toluene	<b>14.7J</b>	ug/L	20.0	10.0	20		04/11/17 03:29	108-88-3	
Xylene (Total)	<b>89.3</b>	ug/L	60.0	30.0	20		04/11/17 03:29	1330-20-7	
m&p-Xylene	<b>22.2J</b>	ug/L	40.0	20.0	20		04/11/17 03:29	179601-23-1	
o-Xylene	<b>67.1</b>	ug/L	20.0	10.0	20		04/11/17 03:29	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	101	%	70-130		20		04/11/17 03:29	1868-53-7	D3
Toluene-d8 (S)	100	%	70-130		20		04/11/17 03:29	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		20		04/11/17 03:29	460-00-4	
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Nitrogen, NO2 plus NO3	<b>&lt;0.58</b>	mg/L	1.9	0.58	5		04/05/17 13:18		D3

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

Sample: 040417013 Lab ID: 40147697013 Collected: 04/04/17 08:41 Received: 04/04/17 13:57 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<5.0	mg/L	15.0	5.0	5		04/11/17 21:47	14808-79-8	D3
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	882	mg/L	117	35.2	5		04/10/17 14:41		

Sample: 040417014 Lab ID: 40147697014 Collected: 04/04/17 09:42 Received: 04/04/17 13:57 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	1610	ug/L	28.0	13.7	10		04/05/17 10:29	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 03:54	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 03:54	7440-36-0	
Copper, Dissolved	<0.26	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 03:54	7440-50-8	
Iron, Dissolved	36300	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 03:54	7439-89-6	
Manganese, Dissolved	1560	ug/L	1.0	0.18	1	04/06/17 09:25	04/08/17 03:54	7439-96-5	
Nickel, Dissolved	0.37J	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 03:54	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 03:54	7440-22-4	1q
Vanadium, Dissolved	4.4	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 03:54	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 03:54	7440-66-6	
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	4.2	ug/L	0.034	0.0067	1	04/10/17 08:30	04/10/17 19:09	83-32-9	
Acenaphthylene	0.058	ug/L	0.028	0.0055	1	04/10/17 08:30	04/10/17 19:09	208-96-8	
Anthracene	0.084	ug/L	0.058	0.012	1	04/10/17 08:30	04/10/17 19:09	120-12-7	
Benzo(a)anthracene	<0.0084	ug/L	0.042	0.0084	1	04/10/17 08:30	04/10/17 19:09	56-55-3	
Benzo(a)pyrene	<0.012	ug/L	0.058	0.012	1	04/10/17 08:30	04/10/17 19:09	50-32-8	
Benzo(b)fluoranthene	<0.0064	ug/L	0.032	0.0064	1	04/10/17 08:30	04/10/17 19:09	205-99-2	
Benzo(g,h,i)perylene	<0.0075	ug/L	0.038	0.0075	1	04/10/17 08:30	04/10/17 19:09	191-24-2	
Benzo(k)fluoranthene	<0.0084	ug/L	0.042	0.0084	1	04/10/17 08:30	04/10/17 19:09	207-08-9	
Chrysene	<0.014	ug/L	0.072	0.014	1	04/10/17 08:30	04/10/17 19:09	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.056	0.011	1	04/10/17 08:30	04/10/17 19:09	53-70-3	
Fluoranthene	0.094	ug/L	0.059	0.012	1	04/10/17 08:30	04/10/17 19:09	206-44-0	
Fluorene	1.1	ug/L	0.044	0.0089	1	04/10/17 08:30	04/10/17 19:09	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.020	ug/L	0.098	0.020	1	04/10/17 08:30	04/10/17 19:09	193-39-5	
1-Methylnaphthalene	0.24	ug/L	0.033	0.0066	1	04/10/17 08:30	04/10/17 19:09	90-12-0	
2-Methylnaphthalene	0.0088J	ug/L	0.027	0.0054	1	04/10/17 08:30	04/10/17 19:09	91-57-6	
Naphthalene	0.23	ug/L	0.10	0.020	1	04/10/17 08:30	04/10/17 19:09	91-20-3	
Phenanthrene	0.060J	ug/L	0.077	0.015	1	04/10/17 08:30	04/10/17 19:09	85-01-8	
Pyrene	0.080	ug/L	0.043	0.0085	1	04/10/17 08:30	04/10/17 19:09	129-00-0	
Total PAHs	6.3	ug/L			1	04/10/17 08:30	04/10/17 19:09		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Sample Project No.: 40147697

**Sample: 040417014**      **Lab ID: 40147697014**      Collected: 04/04/17 09:42      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
<i>Surrogates</i>									
2-Fluorobiphenyl (S)	61	%	25-130		1	04/10/17 08:30	04/10/17 19:09	321-60-8	
Terphenyl-d14 (S)	78	%	13-158		1	04/10/17 08:30	04/10/17 19:09	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/11/17 02:01	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 02:01	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/11/17 02:01	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/11/17 02:01	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/11/17 02:01	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/11/17 02:01	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	101	%	70-130		1		04/11/17 02:01	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/11/17 02:01	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		04/11/17 02:01	460-00-4	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrogen, NO2 plus NO3	<0.58	mg/L	1.9	0.58	5		04/05/17 13:29		D3
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	26.4	mg/L	15.0	5.0	5		04/11/17 21:58	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	584	mg/L	117	35.2	5		04/10/17 14:42		

**Sample: 040417015**      **Lab ID: 40147697015**      Collected: 04/04/17 10:32      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Methane	22800	ug/L	280	137	100		04/05/17 10:36	74-82-8	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Aluminum, Dissolved	<68.7	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 04:14	7429-90-5	
Antimony, Dissolved	<0.073	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 04:14	7440-36-0	
Copper, Dissolved	<0.26	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 04:14	7440-50-8	
Iron, Dissolved	9120	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 04:14	7439-89-6	
Manganese, Dissolved	637	ug/L	1.0	0.18	1	04/06/17 09:25	04/08/17 04:14	7439-96-5	
Nickel, Dissolved	0.31J	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 04:14	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 04:14	7440-22-4	1q
Vanadium, Dissolved	0.46J	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 04:14	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 04:14	7440-66-6	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

**Sample: 040417015**      **Lab ID: 40147697015**      Collected: 04/04/17 10:32      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by HVI</b> Analytical Method: EPA 8270 by HVI      Preparation Method: EPA 3510									
Acenaphthene	0.17	ug/L	0.033	0.0067	1	04/10/17 08:30	04/10/17 18:20	83-32-9	
Acenaphthylene	0.0096J	ug/L	0.027	0.0055	1	04/10/17 08:30	04/10/17 18:20	208-96-8	
Anthracene	0.030J	ug/L	0.057	0.011	1	04/10/17 08:30	04/10/17 18:20	120-12-7	
Benzo(a)anthracene	<0.0083	ug/L	0.041	0.0083	1	04/10/17 08:30	04/10/17 18:20	56-55-3	
Benzo(a)pyrene	<0.012	ug/L	0.058	0.012	1	04/10/17 08:30	04/10/17 18:20	50-32-8	
Benzo(b)fluoranthene	<0.0063	ug/L	0.032	0.0063	1	04/10/17 08:30	04/10/17 18:20	205-99-2	
Benzo(g,h,i)perylene	<0.0075	ug/L	0.037	0.0075	1	04/10/17 08:30	04/10/17 18:20	191-24-2	
Benzo(k)fluoranthene	<0.0083	ug/L	0.041	0.0083	1	04/10/17 08:30	04/10/17 18:20	207-08-9	
Chrysene	<0.014	ug/L	0.072	0.014	1	04/10/17 08:30	04/10/17 18:20	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.055	0.011	1	04/10/17 08:30	04/10/17 18:20	53-70-3	
Fluoranthene	0.038J	ug/L	0.059	0.012	1	04/10/17 08:30	04/10/17 18:20	206-44-0	
Fluorene	0.054	ug/L	0.044	0.0088	1	04/10/17 08:30	04/10/17 18:20	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.019	ug/L	0.097	0.019	1	04/10/17 08:30	04/10/17 18:20	193-39-5	
1-Methylnaphthalene	0.022J	ug/L	0.032	0.0065	1	04/10/17 08:30	04/10/17 18:20	90-12-0	
2-Methylnaphthalene	0.011J	ug/L	0.027	0.0054	1	04/10/17 08:30	04/10/17 18:20	91-57-6	
Naphthalene	0.038J	ug/L	0.10	0.020	1	04/10/17 08:30	04/10/17 18:20	91-20-3	
Phenanthrene	0.017J	ug/L	0.076	0.015	1	04/10/17 08:30	04/10/17 18:20	85-01-8	
Pyrene	0.046	ug/L	0.042	0.0084	1	04/10/17 08:30	04/10/17 18:20	129-00-0	
Total PAHs	0.44	ug/L			1	04/10/17 08:30	04/10/17 18:20		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	25-130		1	04/10/17 08:30	04/10/17 18:20	321-60-8	
Terphenyl-d14 (S)	77	%	13-158		1	04/10/17 08:30	04/10/17 18:20	1718-51-0	
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/11/17 02:23	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 02:23	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/11/17 02:23	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/11/17 02:23	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/11/17 02:23	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/11/17 02:23	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	103	%	70-130		1		04/11/17 02:23	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/11/17 02:23	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		04/11/17 02:23	460-00-4	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrogen, NO2 plus NO3	<0.58	mg/L	1.9	0.58	5		04/05/17 13:41		D3
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<5.0	mg/L	15.0	5.0	5		04/11/17 22:08	14808-79-8	D3
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	734	mg/L	117	35.2	5		04/10/17 14:43		

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

Sample: 040417016 Lab ID: 40147697016 Collected: 04/04/17 11:28 Received: 04/04/17 13:57 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Methane	12700	ug/L	140	68.5	50		04/05/17 10:43	74-82-8	
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<0.68.7	ug/L	250	68.7	1	04/06/17 09:25	04/08/17 04:21	7429-90-5	
Antimony, Dissolved	0.14J	ug/L	1.0	0.073	1	04/06/17 09:25	04/08/17 04:21	7440-36-0	
Copper, Dissolved	<0.26	ug/L	1.0	0.26	1	04/06/17 09:25	04/08/17 04:21	7440-50-8	
Iron, Dissolved	9720	ug/L	250	10.0	1	04/06/17 09:25	04/08/17 04:21	7439-89-6	
Manganese, Dissolved	1110	ug/L	1.0	0.18	1	04/06/17 09:25	04/08/17 04:21	7439-96-5	
Nickel, Dissolved	0.74J	ug/L	1.0	0.11	1	04/06/17 09:25	04/08/17 04:21	7440-02-0	
Silver, Dissolved	<0.016	ug/L	0.50	0.016	1	04/06/17 09:25	04/08/17 04:21	7440-22-4	1q
Vanadium, Dissolved	0.69J	ug/L	1.0	0.15	1	04/06/17 09:25	04/08/17 04:21	7440-62-2	
Zinc, Dissolved	<3.1	ug/L	10.0	3.1	1	04/06/17 09:25	04/08/17 04:21	7440-66-6	
<b>8270 MSSV PAH by HVI</b>		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	0.0082J	ug/L	0.032	0.0063	1	04/10/17 08:30	04/10/17 18:37	83-32-9	
Acenaphthylene	<0.0052	ug/L	0.026	0.0052	1	04/10/17 08:30	04/10/17 18:37	208-96-8	
Anthracene	<0.011	ug/L	0.054	0.011	1	04/10/17 08:30	04/10/17 18:37	120-12-7	
Benzo(a)anthracene	<0.0079	ug/L	0.039	0.0079	1	04/10/17 08:30	04/10/17 18:37	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.055	0.011	1	04/10/17 08:30	04/10/17 18:37	50-32-8	
Benzo(b)fluoranthene	<0.0060	ug/L	0.030	0.0060	1	04/10/17 08:30	04/10/17 18:37	205-99-2	
Benzo(g,h,i)perylene	<0.0071	ug/L	0.035	0.0071	1	04/10/17 08:30	04/10/17 18:37	191-24-2	
Benzo(k)fluoranthene	<0.0079	ug/L	0.039	0.0079	1	04/10/17 08:30	04/10/17 18:37	207-08-9	
Chrysene	<0.014	ug/L	0.068	0.014	1	04/10/17 08:30	04/10/17 18:37	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.052	0.010	1	04/10/17 08:30	04/10/17 18:37	53-70-3	
Fluoranthene	<0.011	ug/L	0.056	0.011	1	04/10/17 08:30	04/10/17 18:37	206-44-0	
Fluorene	<0.0083	ug/L	0.042	0.0083	1	04/10/17 08:30	04/10/17 18:37	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.018	ug/L	0.092	0.018	1	04/10/17 08:30	04/10/17 18:37	193-39-5	
1-Methylnaphthalene	<0.0061	ug/L	0.031	0.0061	1	04/10/17 08:30	04/10/17 18:37	90-12-0	
2-Methylnaphthalene	<0.0051	ug/L	0.026	0.0051	1	04/10/17 08:30	04/10/17 18:37	91-57-6	
Naphthalene	0.021J	ug/L	0.095	0.019	1	04/10/17 08:30	04/10/17 18:37	91-20-3	
Phenanthrene	<0.014	ug/L	0.072	0.014	1	04/10/17 08:30	04/10/17 18:37	85-01-8	
Pyrene	0.0082J	ug/L	0.040	0.0080	1	04/10/17 08:30	04/10/17 18:37	129-00-0	
Total PAHs	0.051	ug/L			1	04/10/17 08:30	04/10/17 18:37		
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	53	%	25-130		1	04/10/17 08:30	04/10/17 18:37	321-60-8	
Terphenyl-d14 (S)	77	%	13-158		1	04/10/17 08:30	04/10/17 18:37	1718-51-0	
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		04/11/17 07:13	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 07:13	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/11/17 07:13	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/11/17 07:13	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/11/17 07:13	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/11/17 07:13	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	102	%	70-130		1		04/11/17 07:13	1868-53-7	

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### ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

Sample: 040417016      Lab ID: 40147697016      Collected: 04/04/17 11:28      Received: 04/04/17 13:57      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
Toluene-d8 (S)	99	%	70-130		1		04/11/17 07:13	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		04/11/17 07:13	460-00-4	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrogen, NO2 plus NO3	<0.58	mg/L	1.9	0.58	5		04/05/17 13:52		D3
<b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0									
Sulfate	<5.0	mg/L	15.0	5.0	5		04/11/17 22:19	14808-79-8	D3
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	671	mg/L	117	35.2	5		04/10/17 14:05		

Sample: 040417017      Lab ID: 40147697017      Collected: 04/04/17 11:58      Received: 04/04/17 13:57      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/11/17 02:45	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/11/17 02:45	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/11/17 02:45	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/11/17 02:45	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/11/17 02:45	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/11/17 02:45	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	102	%	70-130		1		04/11/17 02:45	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		04/11/17 02:45	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		04/11/17 02:45	460-00-4	

Sample: 040417018      Lab ID: 40147697018      Collected: 04/04/17 00:00      Received: 04/04/17 13:57      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/10/17 19:03	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/10/17 19:03	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		04/10/17 19:03	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/10/17 19:03	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/10/17 19:03	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/10/17 19:03	95-47-6	
<i>Surrogates</i>									
Dibromofluoromethane (S)	101	%	70-130		1		04/10/17 19:03	1868-53-7	

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## ANALYTICAL RESULTS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

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**Sample: 040417018**      **Lab ID: 40147697018**      Collected: 04/04/17 00:00      Received: 04/04/17 13:57      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b>		Analytical Method: EPA 8260							
<i>Surrogates</i>									
Toluene-d8 (S)	100	%	70-130		1		04/10/17 19:03	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		04/10/17 19:03	460-00-4	

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**QUALITY CONTROL DATA**

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40147697

QC Batch: 251846 Analysis Method: EPA 8015B Modified  
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV  
Associated Lab Samples: 40147697001, 40147697002, 40147697003, 40147697004, 40147697005, 40147697006, 40147697007, 40147697008, 40147697009, 40147697010, 40147697011, 40147697012, 40147697013, 40147697014, 40147697015, 40147697016

METHOD BLANK: 1486092 Matrix: Water  
Associated Lab Samples: 40147697001, 40147697002, 40147697003, 40147697004, 40147697005, 40147697006, 40147697007, 40147697008, 40147697009, 40147697010, 40147697011, 40147697012, 40147697013, 40147697014, 40147697015, 40147697016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<1.4	2.8	04/05/17 07:13	

LABORATORY CONTROL SAMPLE & LCSD: 1486093 1486094

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	30.0	29.4	105	103	73-122	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1486095 1486096

Parameter	Units	40147697006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	2720	571	571	3940	3820	212	191	15-187	3	20	M1

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

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

QC Batch: 251991 Analysis Method: EPA 6020  
 QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
 Associated Lab Samples: 40147697001, 40147697002, 40147697003, 40147697004, 40147697005, 40147697006, 40147697007, 40147697008, 40147697009, 40147697010, 40147697011, 40147697012, 40147697013, 40147697014, 40147697015, 40147697016

METHOD BLANK: 1486954 Matrix: Water

Associated Lab Samples: 40147697001, 40147697002, 40147697003, 40147697004, 40147697005, 40147697006, 40147697007, 40147697008, 40147697009, 40147697010, 40147697011, 40147697012, 40147697013, 40147697014, 40147697015, 40147697016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<68.7	250	04/08/17 00:10	
Antimony, Dissolved	ug/L	<0.073	1.0	04/08/17 00:10	
Copper, Dissolved	ug/L	<0.26	1.0	04/08/17 00:10	
Iron, Dissolved	ug/L	<10.0	250	04/08/17 00:10	
Manganese, Dissolved	ug/L	<0.18	1.0	04/10/17 21:04	
Nickel, Dissolved	ug/L	<0.11	1.0	04/08/17 00:10	
Silver, Dissolved	ug/L	<0.016	0.50	04/08/17 00:10	
Vanadium, Dissolved	ug/L	<0.15	1.0	04/08/17 00:10	
Zinc, Dissolved	ug/L	<3.1	10.0	04/08/17 00:10	

LABORATORY CONTROL SAMPLE: 1486955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	4800	96	80-120	
Antimony, Dissolved	ug/L	500	522	104	80-120	
Copper, Dissolved	ug/L	500	519	104	80-120	
Iron, Dissolved	ug/L	5000	4870	97	80-120	
Manganese, Dissolved	ug/L	500	504	101	80-120	
Nickel, Dissolved	ug/L	500	497	99	80-120	
Silver, Dissolved	ug/L	250	262	105	80-120	
Vanadium, Dissolved	ug/L	500	503	101	80-120	
Zinc, Dissolved	ug/L	500	540	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1486956 1486957

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40147697006 Result	Spike Conc.	Spike Conc.	MS Result						
Aluminum, Dissolved	ug/L	<68.7	5000	5000	4780	4810	96	96	75-125	1	20
Antimony, Dissolved	ug/L	1.2	500	500	528	526	105	105	75-125	0	20
Copper, Dissolved	ug/L	5.6	500	500	497	500	98	99	75-125	1	20
Iron, Dissolved	ug/L	1530	5000	5000	6360	6370	97	97	75-125	0	20
Manganese, Dissolved	ug/L	185	500	500	694	693	102	102	75-125	0	20
Nickel, Dissolved	ug/L	2.1	500	500	476	479	95	95	75-125	1	20
Silver, Dissolved	ug/L	<0.016	250	250	246	244	99	98	75-125	1	20
Vanadium, Dissolved	ug/L	0.94J	500	500	496	504	99	101	75-125	2	20

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1486956												1486957	
Parameter	Units	40147697006 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD			
Zinc, Dissolved	ug/L	83.8J	500	500	570	567	97	97	75-125	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1486958												1486959	
Parameter	Units	40147658001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD			
Aluminum, Dissolved	ug/L	ND	5000	5000	4730	4740	94	94	75-125	0	20		
Antimony, Dissolved	ug/L	ND	500	500	523	514	104	103	75-125	2	20		
Copper, Dissolved	ug/L	0.0016 mg/L	500	500	488	485	97	97	75-125	1	20		
Iron, Dissolved	ug/L	1.8 mg/L	5000	5000	6620	6600	96	96	75-125	0	20		
Manganese, Dissolved	ug/L	2.4 mg/L	500	500	2850	2860	93	95	75-125	0	20		
Nickel, Dissolved	ug/L	16.6	500	500	489	484	94	93	75-125	1	20		
Silver, Dissolved	ug/L	ND	250	250	241	237	96	95	75-125	2	20		
Vanadium, Dissolved	ug/L	ND	500	500	505	501	101	100	75-125	1	20		
Zinc, Dissolved	ug/L	ND	500	500	595	587	106	104	75-125	1	20		

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

QC Batch: 251862 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
 Associated Lab Samples: 40147697001, 40147697002, 40147697003, 40147697004, 40147697005, 40147697006, 40147697007, 40147697008, 40147697009, 40147697010, 40147697011, 40147697012, 40147697013, 40147697014, 40147697015, 40147697016, 40147697017, 40147697018

METHOD BLANK: 1486160 Matrix: Water  
 Associated Lab Samples: 40147697001, 40147697002, 40147697003, 40147697004, 40147697005, 40147697006, 40147697007, 40147697008, 40147697009, 40147697010, 40147697011, 40147697012, 40147697013, 40147697014, 40147697015, 40147697016, 40147697017, 40147697018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	04/10/17 16:28	
Ethylbenzene	ug/L	<0.50	1.0	04/10/17 16:28	
m&p-Xylene	ug/L	<1.0	2.0	04/10/17 16:28	
o-Xylene	ug/L	<0.50	1.0	04/10/17 16:28	
Toluene	ug/L	<0.50	1.0	04/10/17 16:28	
Xylene (Total)	ug/L	<1.5	3.0	04/10/17 16:28	
4-Bromofluorobenzene (S)	%	89	70-130	04/10/17 16:28	
Dibromofluoromethane (S)	%	99	70-130	04/10/17 16:28	
Toluene-d8 (S)	%	99	70-130	04/10/17 16:28	

LABORATORY CONTROL SAMPLE: 1486161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	53.5	107	60-135	
Ethylbenzene	ug/L	50	57.7	115	70-136	
m&p-Xylene	ug/L	100	117	117	70-138	
o-Xylene	ug/L	50	58.3	117	70-134	
Toluene	ug/L	50	55.5	111	70-130	
Xylene (Total)	ug/L	150	176	117	70-135	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1486162 1486163

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40147697006	Spike Conc.	Spike Conc.	Result						
Benzene	ug/L	<0.50	50	50	52.5	54.5	105	109	57-138	4	20
Ethylbenzene	ug/L	<0.50	50	50	57.3	59.1	115	118	70-138	3	20
m&p-Xylene	ug/L	<1.0	100	100	117	119	117	119	70-140	2	20
o-Xylene	ug/L	<0.50	50	50	58.4	59.4	117	119	70-134	2	20
Toluene	ug/L	<0.50	50	50	55.3	57.3	111	115	70-130	4	20
Xylene (Total)	ug/L	<1.5	150	150	176	179	117	119	70-135	2	20
4-Bromofluorobenzene (S)	%						101	101	70-130		
Dibromofluoromethane (S)	%						103	103	70-130		

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**QUALITY CONTROL DATA**

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1486162												1486163	
Parameter	Units	40147697006 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
Toluene-d8 (S)	%						99	100	70-130				

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40147697

QC Batch: 252217 Analysis Method: EPA 8270 by HVI  
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI  
Associated Lab Samples: 40147697001, 40147697002, 40147697003, 40147697004, 40147697005, 40147697006, 40147697007, 40147697008, 40147697009, 40147697010, 40147697011, 40147697012, 40147697013, 40147697014, 40147697015, 40147697016

METHOD BLANK: 1488640 Matrix: Water  
Associated Lab Samples: 40147697001, 40147697002, 40147697003, 40147697004, 40147697005, 40147697006, 40147697007, 40147697008, 40147697009, 40147697010, 40147697011, 40147697012, 40147697013, 40147697014, 40147697015, 40147697016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	04/10/17 12:53	
2-Methylnaphthalene	ug/L	<0.0049	0.024	04/10/17 12:53	
Acenaphthene	ug/L	<0.0061	0.030	04/10/17 12:53	
Acenaphthylene	ug/L	<0.0050	0.025	04/10/17 12:53	
Anthracene	ug/L	<0.010	0.052	04/10/17 12:53	
Benzo(a)anthracene	ug/L	<0.0076	0.038	04/10/17 12:53	
Benzo(a)pyrene	ug/L	<0.011	0.053	04/10/17 12:53	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	04/10/17 12:53	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	04/10/17 12:53	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	04/10/17 12:53	
Chrysene	ug/L	<0.013	0.065	04/10/17 12:53	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	04/10/17 12:53	
Fluoranthene	ug/L	<0.011	0.053	04/10/17 12:53	
Fluorene	ug/L	<0.0080	0.040	04/10/17 12:53	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	04/10/17 12:53	
Naphthalene	ug/L	<0.018	0.092	04/10/17 12:53	
Phenanthrene	ug/L	<0.014	0.069	04/10/17 12:53	
Pyrene	ug/L	<0.0076	0.038	04/10/17 12:53	
Total PAHs	ug/L	0.022		04/10/17 12:53	
2-Fluorobiphenyl (S)	%	68	25-130	04/10/17 12:53	
Terphenyl-d14 (S)	%	99	13-158	04/10/17 12:53	

LABORATORY CONTROL SAMPLE: 1488641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.3	65	35-130	
2-Methylnaphthalene	ug/L	2	1.3	63	36-130	
Acenaphthene	ug/L	2	1.4	68	41-130	
Acenaphthylene	ug/L	2	1.4	68	41-130	
Anthracene	ug/L	2	1.6	79	38-130	
Benzo(a)anthracene	ug/L	2	1.3	66	49-130	
Benzo(a)pyrene	ug/L	2	1.9	97	69-143	
Benzo(b)fluoranthene	ug/L	2	1.7	84	63-146	
Benzo(g,h,i)perylene	ug/L	2	0.78	39	10-145	
Benzo(k)fluoranthene	ug/L	2	2.1	103	64-152	
Chrysene	ug/L	2	2.4	118	64-156	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

LABORATORY CONTROL SAMPLE: 1488641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibenz(a,h)anthracene	ug/L	2	0.73	37	10-143	
Fluoranthene	ug/L	2	1.7	84	54-134	
Fluorene	ug/L	2	1.3	64	44-130	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.3	66	39-140	
Naphthalene	ug/L	2	1.3	64	35-130	
Phenanthrene	ug/L	2	1.5	73	51-130	
Pyrene	ug/L	2	1.8	91	61-140	
Total PAHs	ug/L		26.5			
2-Fluorobiphenyl (S)	%			62	25-130	
Terphenyl-d14 (S)	%			85	13-158	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488642 1488643

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40147697006 Result	Spike Conc.	Spike Conc.	MS Result						
1-Methylnaphthalene	ug/L	0.0084J	2.2	2.1	1.5	1.3	67	62	16-130	8	30
2-Methylnaphthalene	ug/L	<0.0049	2.2	2.1	1.4	1.4	65	65	33-130	1	30
Acenaphthene	ug/L	0.026J	2.2	2.1	1.5	1.5	67	68	29-130	1	27
Acenaphthylene	ug/L	<0.0050	2.2	2.1	1.4	1.4	66	66	33-130	1	27
Anthracene	ug/L	0.020J	2.2	2.1	1.7	1.6	80	75	26-130	8	31
Benzo(a)anthracene	ug/L	<0.0076	2.2	2.1	1.1	1.0	49	48	27-130	3	36
Benzo(a)pyrene	ug/L	<0.011	2.2	2.1	1.2	1.2	55	55	16-151	1	44
Benzo(b)fluoranthene	ug/L	0.0096J	2.2	2.1	1.1	1.1	53	54	30-142	0	41
Benzo(g,h,i)perylene	ug/L	<0.0068	2.2	2.1	0.54	0.53	25	25	10-130	2	50
Benzo(k)fluoranthene	ug/L	<0.0076	2.2	2.1	1.4	1.3	63	63	24-152	2	41
Chrysene	ug/L	<0.013	2.2	2.1	1.9	2.1	90	98	40-152	7	33
Dibenz(a,h)anthracene	ug/L	<0.010	2.2	2.1	0.45	0.48	21	23	10-130	7	50
Fluoranthene	ug/L	0.011J	2.2	2.1	1.6	1.6	75	75	39-140	1	30
Fluorene	ug/L	<0.0081	2.2	2.1	1.3	1.3	61	61	35-130	1	26
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	2.2	2.1	0.62	0.67	28	31	10-130	8	50
Naphthalene	ug/L	0.037J	2.2	2.1	1.5	1.5	68	67	29-130	2	31
Phenanthrene	ug/L	<0.014	2.2	2.1	1.4	1.4	64	66	48-130	1	25
Pyrene	ug/L	0.0090J	2.2	2.1	1.7	1.7	79	80	42-143	0	25
Total PAHs	ug/L	0.16			23.3	23.2				1	
2-Fluorobiphenyl (S)	%						62	61	25-130		
Terphenyl-d14 (S)	%						68	72	13-158		

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40147697

QC Batch: 251904 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40147697001, 40147697002, 40147697003, 40147697004, 40147697005, 40147697006, 40147697007, 40147697008, 40147697009, 40147697010, 40147697011, 40147697012, 40147697013, 40147697014, 40147697015, 40147697016

METHOD BLANK: 1486431 Matrix: Water  
Associated Lab Samples: 40147697001, 40147697002, 40147697003, 40147697004, 40147697005, 40147697006, 40147697007, 40147697008, 40147697009, 40147697010, 40147697011, 40147697012, 40147697013, 40147697014, 40147697015, 40147697016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.12	0.38	04/05/17 11:45	

LABORATORY CONTROL SAMPLE: 1486432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.7	106		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1486433 1486434

Parameter	Units	40147697006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	6.4	12.5	12.5	19.2	19.3	103	104		1		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1486435 1486436

Parameter	Units	40147697016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.58	12.5	12.5	13.4	13.6	107	109		1		

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

QC Batch: 252290

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Associated Lab Samples: 40147697001, 40147697002, 40147697003, 40147697004, 40147697005, 40147697006, 40147697007, 40147697008, 40147697009, 40147697010, 40147697011, 40147697012, 40147697013, 40147697014, 40147697015, 40147697016

METHOD BLANK: 1488912

Matrix: Water

Associated Lab Samples: 40147697001, 40147697002, 40147697003, 40147697004, 40147697005, 40147697006, 40147697007, 40147697008, 40147697009, 40147697010, 40147697011, 40147697012, 40147697013, 40147697014, 40147697015, 40147697016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	04/11/17 17:16	

LABORATORY CONTROL SAMPLE: 1488913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.9	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488914 1488915

Parameter	Units	40147928003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Sulfate	mg/L	110	200	200	314	326	102	108	90-110	4	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488916 1488917

Parameter	Units	40147697006 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Sulfate	mg/L	104	100	100	210	199	106	95	90-110	6	15	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40147697

QC Batch: 252254 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
Associated Lab Samples: 40147697001, 40147697002, 40147697003, 40147697004, 40147697005, 40147697006

METHOD BLANK: 1488812 Matrix: Water  
Associated Lab Samples: 40147697001, 40147697002, 40147697003, 40147697004, 40147697005, 40147697006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<7.0	23.5	04/10/17 13:35	

LABORATORY CONTROL SAMPLE: 1488813

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488814 1488815

Parameter	Units	40147519012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	269J	2000	2000	2260	2300	100	102	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488816 1488817

Parameter	Units	40147697006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	287	500	500	771	772	97	97	90-110	0	20	

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### QUALITY CONTROL DATA

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40147697

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QC Batch: 252255 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
Associated Lab Samples: 40147697007, 40147697008, 40147697009, 40147697010, 40147697011, 40147697012, 40147697013, 40147697014, 40147697015, 40147697016

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METHOD BLANK: 1488818 Matrix: Water  
Associated Lab Samples: 40147697007, 40147697008, 40147697009, 40147697010, 40147697011, 40147697012, 40147697013, 40147697014, 40147697015, 40147697016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	04/10/17 13:56	

LABORATORY CONTROL SAMPLE: 1488819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	99.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488820 1488821

Parameter	Units	40147697016 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	671	500	500	1170	1170	101	100	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488822 1488823

Parameter	Units	40147910001 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	6610	5000	5000	10800	10800	83	83	90-110	0	20 M0	

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## QUALIFIERS

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### ANALYTE QUALIFIERS

1q Analyte was measured in the associated method blank at -0.017 ug/L.

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

H5 Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.

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

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

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40147697

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40147697001	040317001	EPA 8015B Modified	251846		
40147697002	040317002	EPA 8015B Modified	251846		
40147697003	040317003	EPA 8015B Modified	251846		
40147697004	040317004	EPA 8015B Modified	251846		
40147697005	040317005	EPA 8015B Modified	251846		
40147697006	040317006	EPA 8015B Modified	251846		
40147697007	040317007	EPA 8015B Modified	251846		
40147697008	040317008	EPA 8015B Modified	251846		
40147697009	040317009	EPA 8015B Modified	251846		
40147697010	040317010	EPA 8015B Modified	251846		
40147697011	040317011	EPA 8015B Modified	251846		
40147697012	040417012	EPA 8015B Modified	251846		
40147697013	040417013	EPA 8015B Modified	251846		
40147697014	040417014	EPA 8015B Modified	251846		
40147697015	040417015	EPA 8015B Modified	251846		
40147697016	040417016	EPA 8015B Modified	251846		
40147697001	040317001	EPA 3010	251991	EPA 6020	252056
40147697002	040317002	EPA 3010	251991	EPA 6020	252056
40147697003	040317003	EPA 3010	251991	EPA 6020	252056
40147697004	040317004	EPA 3010	251991	EPA 6020	252056
40147697005	040317005	EPA 3010	251991	EPA 6020	252056
40147697006	040317006	EPA 3010	251991	EPA 6020	252056
40147697007	040317007	EPA 3010	251991	EPA 6020	252056
40147697008	040317008	EPA 3010	251991	EPA 6020	252056
40147697009	040317009	EPA 3010	251991	EPA 6020	252056
40147697010	040317010	EPA 3010	251991	EPA 6020	252056
40147697011	040317011	EPA 3010	251991	EPA 6020	252056
40147697012	040417012	EPA 3010	251991	EPA 6020	252056
40147697013	040417013	EPA 3010	251991	EPA 6020	252056
40147697014	040417014	EPA 3010	251991	EPA 6020	252056
40147697015	040417015	EPA 3010	251991	EPA 6020	252056
40147697016	040417016	EPA 3010	251991	EPA 6020	252056
40147697001	040317001	EPA 3510	252217	EPA 8270 by HVI	252256
40147697002	040317002	EPA 3510	252217	EPA 8270 by HVI	252256
40147697003	040317003	EPA 3510	252217	EPA 8270 by HVI	252256
40147697004	040317004	EPA 3510	252217	EPA 8270 by HVI	252256
40147697005	040317005	EPA 3510	252217	EPA 8270 by HVI	252256
40147697006	040317006	EPA 3510	252217	EPA 8270 by HVI	252256
40147697007	040317007	EPA 3510	252217	EPA 8270 by HVI	252256
40147697008	040317008	EPA 3510	252217	EPA 8270 by HVI	252256
40147697009	040317009	EPA 3510	252217	EPA 8270 by HVI	252256
40147697010	040317010	EPA 3510	252217	EPA 8270 by HVI	252256
40147697011	040317011	EPA 3510	252217	EPA 8270 by HVI	252256
40147697012	040417012	EPA 3510	252217	EPA 8270 by HVI	252256
40147697013	040417013	EPA 3510	252217	EPA 8270 by HVI	252256
40147697014	040417014	EPA 3510	252217	EPA 8270 by HVI	252256
40147697015	040417015	EPA 3510	252217	EPA 8270 by HVI	252256
40147697016	040417016	EPA 3510	252217	EPA 8270 by HVI	252256

**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP

Pace Project No.: 40147697

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40147697001	040317001	EPA 8260	251862		
40147697002	040317002	EPA 8260	251862		
40147697003	040317003	EPA 8260	251862		
40147697004	040317004	EPA 8260	251862		
40147697005	040317005	EPA 8260	251862		
40147697006	040317006	EPA 8260	251862		
40147697007	040317007	EPA 8260	251862		
40147697008	040317008	EPA 8260	251862		
40147697009	040317009	EPA 8260	251862		
40147697010	040317010	EPA 8260	251862		
40147697011	040317011	EPA 8260	251862		
40147697012	040417012	EPA 8260	251862		
40147697013	040417013	EPA 8260	251862		
40147697014	040417014	EPA 8260	251862		
40147697015	040417015	EPA 8260	251862		
40147697016	040417016	EPA 8260	251862		
40147697017	040417017	EPA 8260	251862		
40147697018	040417018	EPA 8260	251862		
40147697001	040317001	EPA 300.0	251904		
40147697002	040317002	EPA 300.0	251904		
40147697003	040317003	EPA 300.0	251904		
40147697004	040317004	EPA 300.0	251904		
40147697005	040317005	EPA 300.0	251904		
40147697006	040317006	EPA 300.0	251904		
40147697007	040317007	EPA 300.0	251904		
40147697008	040317008	EPA 300.0	251904		
40147697009	040317009	EPA 300.0	251904		
40147697010	040317010	EPA 300.0	251904		
40147697011	040317011	EPA 300.0	251904		
40147697012	040417012	EPA 300.0	251904		
40147697013	040417013	EPA 300.0	251904		
40147697014	040417014	EPA 300.0	251904		
40147697015	040417015	EPA 300.0	251904		
40147697016	040417016	EPA 300.0	251904		
40147697001	040317001	EPA 300.0	252290		
40147697002	040317002	EPA 300.0	252290		
40147697003	040317003	EPA 300.0	252290		
40147697004	040317004	EPA 300.0	252290		
40147697005	040317005	EPA 300.0	252290		
40147697006	040317006	EPA 300.0	252290		
40147697007	040317007	EPA 300.0	252290		
40147697008	040317008	EPA 300.0	252290		
40147697009	040317009	EPA 300.0	252290		
40147697010	040317010	EPA 300.0	252290		
40147697011	040317011	EPA 300.0	252290		
40147697012	040417012	EPA 300.0	252290		
40147697013	040417013	EPA 300.0	252290		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1549 MARINETTE FORMER MGP  
Pace Project No.: 40147697

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40147697014	040417014	EPA 300.0	252290		
40147697015	040417015	EPA 300.0	252290		
40147697016	040417016	EPA 300.0	252290		
40147697001	040317001	EPA 310.2	252254		
40147697002	040317002	EPA 310.2	252254		
40147697003	040317003	EPA 310.2	252254		
40147697004	040317004	EPA 310.2	252254		
40147697005	040317005	EPA 310.2	252254		
40147697006	040317006	EPA 310.2	252254		
40147697007	040317007	EPA 310.2	252255		
40147697008	040317008	EPA 310.2	252255		
40147697009	040317009	EPA 310.2	252255		
40147697010	040317010	EPA 310.2	252255		
40147697011	040317011	EPA 310.2	252255		
40147697012	040417012	EPA 310.2	252255		
40147697013	040417013	EPA 310.2	252255		
40147697014	040417014	EPA 310.2	252255		
40147697015	040417015	EPA 310.2	252255		
40147697016	040417016	EPA 310.2	252255		

### REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

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

**Pace Analytical™**  
Client Name: NRT

Project #: **WO# : 40147697**

Courier:  Fed Ex  UPS  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 N/A    Type of Ice:  Wet  Blue  Dry  None     Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT / Corr: \_\_\_\_\_    Biological Tissue is Frozen:  yes  no

Temp Blank Present:  yes  no

Person examining contents:  
Date: 4-4-17  
Initials: SKW

Temp should be above freezing to 6°C for all sample except Biota.  
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. Original and a copy 4-4-17
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
(HNO3, H2SO4, NaOH+ZnAct ≥9, NaOH ≥12)		
exceptions: <input checked="" type="checkbox"/> VOA coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>SKW</u> Lab Std #ID of preservative: _____    Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
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):		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: [Signature] Date: 4-5-17

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

April 23, 2014

Natural Resource Technology, Inc.

415A S. 3rd Street

Milwaukee, WI 53204

Telephone: (414) 837-3554

Fax: (414) 837-3608

Analytical Report for STAT Workorder: 14040335 Revision 0

RE: 1549, Marinette Former MGP, Marinette, WI

Dear Jody Barbeau:

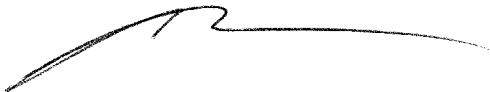
STAT Analysis received 10 samples for the referenced project on 4/8/2014 5:32:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla

Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Natural Resource Technology, Inc.  
**Project:** 1549, Marinette Former MGP, Marinette, WI  
**Lab Order:** 14040335

**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
14040335-001A	040314001		4/3/2014 9:07:00 AM	4/8/2014
14040335-002A	040314002		4/3/2014 9:07:00 AM	4/8/2014
14040335-003A	040314005		4/3/2014 9:52:00 AM	4/8/2014
14040335-004A	040314003		4/3/2014 10:29:00 AM	4/8/2014
14040335-005A	040314006		4/3/2014 10:57:00 AM	4/8/2014
14040335-006A	040314007		4/3/2014 10:57:00 AM	4/8/2014
14040335-007A	040314004		4/3/2014 11:29:00 AM	4/8/2014
14040335-008A	040314008		4/3/2014 12:13:00 PM	4/8/2014
14040335-009A	040314010		4/3/2014 12:45:00 PM	4/8/2014
14040335-010A	040314009		4/3/2014 1:13:00 PM	4/8/2014

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**CLIENT:** Natural Resource Technology, Inc.  
**Project:** 1549, Marinette Former MGP, Marinette, WI  
**Lab Order:** 14040335

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**CASE NARRATIVE**

Results that are reported in  $\mu\text{g}/\text{m}^3$  are calculated based on a temperature of  $25^\circ\text{C}$ , atmospheric pressure of 760 mm Hg, and the molecular weight of the analyte.

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: April 23, 2014

**ANALYTICAL RESULTS**

Print Date: April 23, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 040314001

Lab Order: 14040335

Tag Number:

Project: 1549, Marinette Former MGP, Marinette, WI

Collection Date: 4/3/2014 9:07:00 AM

Lab ID: 14040335-001A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>				Prep Date:	Analyst: <b>BK</b>
Carbon Dioxide	4.13	0.08		mol %	2	4/10/2014
Methane	ND	0.10		mol %	2	4/10/2014
Oxygen	11.0	0.80		mol %	2	4/10/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>4/11/2014</b>	Analyst: <b>VP</b>
1,2,4-Trimethylbenzene	3.8	0.34		ppbv	1	4/11/2014
Benzene	ND	0.34		ppbv	1	4/11/2014
Ethylbenzene	0.36	0.34		ppbv	1	4/11/2014
Naphthalene	0.12	0.085		ppbv	1	4/11/2014
Toluene	2.4	0.34		ppbv	1	4/11/2014
Xylenes, Total	2.0	1.0		ppbv	1	4/11/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>4/11/2014</b>	Analyst: <b>VP</b>
1,2,4-Trimethylbenzene	19	1.7		µg/m <sup>3</sup>	1	4/11/2014
Benzene	ND	1.0		µg/m <sup>3</sup>	1	4/11/2014
Ethylbenzene	1.5	1.5		µg/m <sup>3</sup>	1	4/11/2014
Naphthalene	0.62	0.44		µg/m <sup>3</sup>	1	4/11/2014
Toluene	9.0	1.4		µg/m <sup>3</sup>	1	4/11/2014
Xylenes, Total	8.8	4.4		µg/m <sup>3</sup>	1	4/11/2014

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: April 23, 2014

**ANALYTICAL RESULTS**

Print Date: April 23, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 040314002

Lab Order: 14040335

Tag Number:

Project: 1549, Marinette Former MGP, Marinette, WI

Collection Date: 4/3/2014 9:07:00 AM

Lab ID: 14040335-002A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>		Prep Date:		Analyst: <b>BK</b>	
Carbon Dioxide	4.08	0.08		mol %	2	4/10/2014
Methane	ND	0.10		mol %	2	4/10/2014
Oxygen	10.9	0.80		mol %	2	4/10/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>4/11/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	3.4	0.34		ppbv	1	4/11/2014
Benzene	ND	0.34		ppbv	1	4/11/2014
Ethylbenzene	0.35	0.34		ppbv	1	4/11/2014
Naphthalene	ND	0.084		ppbv	1	4/11/2014
Toluene	2.3	0.34		ppbv	1	4/11/2014
Xylenes, Total	1.9	1.0		ppbv	1	4/11/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>4/11/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	17	1.7		µg/m <sup>3</sup>	1	4/11/2014
Benzene	ND	1.0		µg/m <sup>3</sup>	1	4/11/2014
Ethylbenzene	1.5	1.5		µg/m <sup>3</sup>	1	4/11/2014
Naphthalene	ND	0.44		µg/m <sup>3</sup>	1	4/11/2014
Toluene	8.7	1.3		µg/m <sup>3</sup>	1	4/11/2014
Xylenes, Total	8.2	4.4		µg/m <sup>3</sup>	1	4/11/2014

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: April 23, 2014

**ANALYTICAL RESULTS**

Print Date: April 23, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 040314005

Lab Order: 14040335

Tag Number:

Project: 1549, Marinette Former MGP, Marinette, WI

Collection Date: 4/3/2014 9:52:00 AM

Lab ID: 14040335-003A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>				Prep Date:	Analyst: <b>BK</b>
Carbon Dioxide	9.47	0.08		mol %	2	4/10/2014
Methane	ND	0.10		mol %	2	4/10/2014
Oxygen	6.38	0.80		mol %	2	4/10/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>4/11/2014</b>	Analyst: <b>VP</b>
1,2,4-Trimethylbenzene	9.2	0.38		ppbv	1	4/11/2014
Benzene	ND	0.38		ppbv	1	4/11/2014
Ethylbenzene	0.81	0.38		ppbv	1	4/11/2014
Naphthalene	0.38	0.095		ppbv	1	4/11/2014
Toluene	3.3	0.38		ppbv	1	4/11/2014
Xylenes, Total	4.0	1.1		ppbv	1	4/11/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>4/11/2014</b>	Analyst: <b>VP</b>
1,2,4-Trimethylbenzene	45	1.9		µg/m <sup>3</sup>	1	4/11/2014
Benzene	ND	1.1		µg/m <sup>3</sup>	1	4/11/2014
Ethylbenzene	3.5	1.7		µg/m <sup>3</sup>	1	4/11/2014
Naphthalene	2.0	0.49		µg/m <sup>3</sup>	1	4/11/2014
Toluene	12	1.5		µg/m <sup>3</sup>	1	4/11/2014
Xylenes, Total	18	4.9		µg/m <sup>3</sup>	1	4/11/2014

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: April 23, 2014

**ANALYTICAL RESULTS**

Print Date: April 23, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 040314003

Lab Order: 14040335

Tag Number:

Project: 1549, Marinette Former MGP, Marinette, WI

Collection Date: 4/3/2014 10:29:00 AM

Lab ID: 14040335-004A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>				Prep Date:	Analyst: <b>BK</b>
Carbon Dioxide	5.91	0.08		mol %	2	4/10/2014
Methane	ND	0.10		mol %	2	4/10/2014
Oxygen	7.93	0.80		mol %	2	4/10/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>4/11/2014</b>	Analyst: <b>VP</b>
1,2,4-Trimethylbenzene	4.0	0.33		ppbv	1	4/11/2014
Benzene	ND	0.33		ppbv	1	4/11/2014
Ethylbenzene	0.37	0.33		ppbv	1	4/11/2014
Naphthalene	0.083	0.083		ppbv	1	4/11/2014
Toluene	1.9	0.33		ppbv	1	4/11/2014
Xylenes, Total	2.0	1.0		ppbv	1	4/11/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>4/11/2014</b>	Analyst: <b>VP</b>
1,2,4-Trimethylbenzene	20	1.7		µg/m <sup>3</sup>	1	4/11/2014
Benzene	ND	1.0		µg/m <sup>3</sup>	1	4/11/2014
Ethylbenzene	1.6	1.5		µg/m <sup>3</sup>	1	4/11/2014
Naphthalene	0.44	0.43		µg/m <sup>3</sup>	1	4/11/2014
Toluene	7.1	1.3		µg/m <sup>3</sup>	1	4/11/2014
Xylenes, Total	8.5	4.3		µg/m <sup>3</sup>	1	4/11/2014

**Qualifiers:**  
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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: April 23, 2014

**ANALYTICAL RESULTS**

Print Date: April 23, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 040314006

Lab Order: 14040335

Tag Number:

Project: 1549, Marinette Former MGP, Marinette, WI

Collection Date: 4/3/2014 10:57:00 AM

Lab ID: 14040335-005A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>		Prep Date:		Analyst: <b>BK</b>	
Carbon Dioxide	8.76	0.08		mol %	2	4/10/2014
Methane	ND	0.10		mol %	2	4/10/2014
Oxygen	6.81	0.80		mol %	2	4/10/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>4/11/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	12	0.36		ppbv	1	4/11/2014
Benzene	ND	0.36		ppbv	1	4/11/2014
Ethylbenzene	0.78	0.36		ppbv	1	4/11/2014
Naphthalene	0.31	0.091		ppbv	1	4/11/2014
Toluene	3.4	0.36		ppbv	1	4/11/2014
Xylenes, Total	4.2	1.1		ppbv	1	4/11/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>4/11/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	60	1.8		µg/m <sup>3</sup>	1	4/11/2014
Benzene	ND	1.1		µg/m <sup>3</sup>	1	4/11/2014
Ethylbenzene	3.4	1.6		µg/m <sup>3</sup>	1	4/11/2014
Naphthalene	1.6	0.47		µg/m <sup>3</sup>	1	4/11/2014
Toluene	13	1.5		µg/m <sup>3</sup>	1	4/11/2014
Xylenes, Total	18	4.7		µg/m <sup>3</sup>	1	4/11/2014

**Qualifiers:**  
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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: April 23, 2014

**ANALYTICAL RESULTS**

Print Date: April 23, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 040314007

Lab Order: 14040335

Tag Number:

Project: 1549, Marinette Former MGP, Marinette, WI

Collection Date: 4/3/2014 10:57:00 AM

Lab ID: 14040335-006A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>				Prep Date:	Analyst: <b>BK</b>
Carbon Dioxide	8.44	0.08		mol %	2	4/10/2014
Methane	ND	0.10		mol %	2	4/10/2014
Oxygen	6.99	0.80		mol %	2	4/10/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>4/11/2014</b>	Analyst: <b>VP</b>
1,2,4-Trimethylbenzene	12	0.36		ppbv	1	4/11/2014
Benzene	0.40	0.36		ppbv	1	4/11/2014
Ethylbenzene	0.90	0.36		ppbv	1	4/11/2014
Naphthalene	0.27	0.090		ppbv	1	4/11/2014
Toluene	3.8	0.36		ppbv	1	4/11/2014
Xylenes, Total	4.5	1.1		ppbv	1	4/11/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>4/11/2014</b>	Analyst: <b>VP</b>
1,2,4-Trimethylbenzene	60	1.8		µg/m <sup>3</sup>	1	4/11/2014
Benzene	1.3	1.1		µg/m <sup>3</sup>	1	4/11/2014
Ethylbenzene	3.9	1.6		µg/m <sup>3</sup>	1	4/11/2014
Naphthalene	1.4	0.47		µg/m <sup>3</sup>	1	4/11/2014
Toluene	14	1.4		µg/m <sup>3</sup>	1	4/11/2014
Xylenes, Total	19	4.7		µg/m <sup>3</sup>	1	4/11/2014

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: April 23, 2014

**ANALYTICAL RESULTS**

Print Date: April 23, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 040314004

Lab Order: 14040335

Tag Number:

Project: 1549, Marinette Former MGP, Marinette, WI

Collection Date: 4/3/2014 11:29:00 AM

Lab ID: 14040335-007A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>				Prep Date:	Analyst: <b>BK</b>
Carbon Dioxide	0.50	0.08		mol %	2	4/10/2014
Methane	ND	0.10		mol %	2	4/10/2014
Oxygen	16.5	0.80		mol %	2	4/10/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>4/11/2014</b>	Analyst: <b>VP</b>
1,2,4-Trimethylbenzene	ND	0.36		ppbv	1	4/11/2014
Benzene	ND	0.36		ppbv	1	4/11/2014
Ethylbenzene	ND	0.36		ppbv	1	4/11/2014
Naphthalene	0.27	0.091		ppbv	1	4/11/2014
Toluene	ND	0.36		ppbv	1	4/11/2014
Xylenes, Total	ND	1.1		ppbv	1	4/11/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>4/11/2014</b>	Analyst: <b>VP</b>
1,2,4-Trimethylbenzene	ND	1.8		µg/m <sup>3</sup>	1	4/11/2014
Benzene	ND	1.1		µg/m <sup>3</sup>	1	4/11/2014
Ethylbenzene	ND	1.6		µg/m <sup>3</sup>	1	4/11/2014
Naphthalene	1.4	0.47		µg/m <sup>3</sup>	1	4/11/2014
Toluene	ND	1.5		µg/m <sup>3</sup>	1	4/11/2014
Xylenes, Total	ND	4.7		µg/m <sup>3</sup>	1	4/11/2014

**Qualifiers:**  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Report Date: April 23, 2014

**ANALYTICAL RESULTS**

Print Date: April 23, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 040314008

Lab Order: 14040335

Tag Number:

Project: 1549, Marinette Former MGP, Marinette, WI

Collection Date: 4/3/2014 12:13:00 PM

Lab ID: 14040335-008A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>				Prep Date:	Analyst: <b>BK</b>
Carbon Dioxide	1.45	0.08		mol %	2	4/10/2014
Methane	ND	0.10		mol %	2	4/10/2014
Oxygen	15.3	0.80		mol %	2	4/10/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>4/11/2014</b>	Analyst: <b>VP</b>
1,2,4-Trimethylbenzene	16	0.36		ppbv	1	4/11/2014
Benzene	0.68	0.36		ppbv	1	4/11/2014
Ethylbenzene	1.6	0.36		ppbv	1	4/11/2014
Naphthalene	0.32	0.090		ppbv	1	4/11/2014
Toluene	7.5	0.36		ppbv	1	4/11/2014
Xylenes, Total	7.9	1.1		ppbv	1	4/11/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>4/11/2014</b>	Analyst: <b>VP</b>
1,2,4-Trimethylbenzene	76	1.8		µg/m <sup>3</sup>	1	4/11/2014
Benzene	2.2	1.1		µg/m <sup>3</sup>	1	4/11/2014
Ethylbenzene	6.9	1.6		µg/m <sup>3</sup>	1	4/11/2014
Naphthalene	1.7	0.47		µg/m <sup>3</sup>	1	4/11/2014
Toluene	28	1.4		µg/m <sup>3</sup>	1	4/11/2014
Xylenes, Total	34	4.7		µg/m <sup>3</sup>	1	4/11/2014

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: April 23, 2014

**ANALYTICAL RESULTS**

Print Date: April 23, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 040314010

Lab Order: 14040335

Tag Number:

Project: 1549, Marinette Former MGP, Marinette, WI

Collection Date: 4/3/2014 12:45:00 PM

Lab ID: 14040335-009A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>		Prep Date:		Analyst: <b>BK</b>	
Carbon Dioxide	0.08	0.08		mol %	2	4/10/2014
Methane	ND	0.10		mol %	2	4/10/2014
Oxygen	16.6	0.80		mol %	2	4/10/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>4/11/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	12	0.38		ppbv	1	4/11/2014
Benzene	0.40	0.38		ppbv	1	4/11/2014
Ethylbenzene	1.0	0.38		ppbv	1	4/11/2014
Naphthalene	0.40	0.095		ppbv	1	4/11/2014
Toluene	3.8	0.38		ppbv	1	4/11/2014
Xylenes, Total	5.3	1.1		ppbv	1	4/11/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>4/11/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	59	1.9		µg/m <sup>3</sup>	1	4/11/2014
Benzene	1.3	1.1		µg/m <sup>3</sup>	1	4/11/2014
Ethylbenzene	4.5	1.7		µg/m <sup>3</sup>	1	4/11/2014
Naphthalene	2.1	0.49		µg/m <sup>3</sup>	1	4/11/2014
Toluene	14	1.5		µg/m <sup>3</sup>	1	4/11/2014
Xylenes, Total	23	4.9		µg/m <sup>3</sup>	1	4/11/2014

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: April 23, 2014

**ANALYTICAL RESULTS**

Print Date: April 23, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 040314009

Lab Order: 14040335

Tag Number:

Project: 1549, Marinette Former MGP, Marinette, WI

Collection Date: 4/3/2014 1:13:00 PM

Lab ID: 14040335-010A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>		Prep Date:		Analyst: <b>BK</b>	
Carbon Dioxide	0.95	0.08		mol %	2	4/11/2014
Methane	ND	0.10		mol %	2	4/11/2014
Oxygen	15.8	0.80		mol %	2	4/11/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>4/11/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	22	0.37		ppbv	1	4/11/2014
Benzene	1.4	0.37		ppbv	1	4/11/2014
Ethylbenzene	3.0	0.37		ppbv	1	4/11/2014
Naphthalene	0.37	0.092		ppbv	1	4/11/2014
Toluene	13	0.37		ppbv	1	4/11/2014
Xylenes, Total	13	1.1		ppbv	1	4/11/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>4/11/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	110	1.8		µg/m <sup>3</sup>	1	4/11/2014
Benzene	4.5	1.1		µg/m <sup>3</sup>	1	4/11/2014
Ethylbenzene	13	1.7		µg/m <sup>3</sup>	1	4/11/2014
Naphthalene	1.9	0.48		µg/m <sup>3</sup>	1	4/11/2014
Toluene	51	1.5		µg/m <sup>3</sup>	1	4/11/2014
Xylenes, Total	58	4.8		µg/m <sup>3</sup>	1	4/11/2014

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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	* - Non-accredited parameter	H - Holding time exceeded

**CHAIN OF CUSTODY RECORD**

No: 854790

Page: 1 of 1

Company: <u>Natural Resource Technology</u>							P.O. No.:				
Project Number: <u>1549</u>			Client Tracking No.:				Turn Around: <u>Standard</u> Results Needed: _____ am/pm _____				
Project Name: <u>Manwette Farmer MVP</u>										Quote No.:	
Project Location: <u>Manwette, WI</u>										Direct bill to IBS	
Sampler(s): <u>Steve Wickes / Brian Hennings</u>										Report To: <u>jbabeau@naturalr.com</u> Phone: _____	
Report To: <u>jbabeau@naturalr.com</u> Phone: _____										Fax: _____	
QC Level: 1 ___ 2 <u>X</u> 3 ___ 4 <u>X</u>							e-mail: <u>jbabeau@naturalr.com</u>				
Client Sample Number/Description:		Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	10-15 (6/24/14), 12-14 (7/14/14) ASTM D 5026 or 4222C (C <sub>1</sub> , C <sub>2</sub> , C <sub>14</sub> )		
040314001		4/3/14	0907	Air		X	A	1			
040314002		4/3/14	0907	Air		X	A	1			
040314005		4/8/14	0952	Air		X	A	1			
040314003		4/3/14	1029	Air		X	A	1			
040314006		4/3/14	1057	Air		X	A	1			
040314007		4/3/14	1057	Air		X	A	1			
040314004		4/3/14	1129	Air		X	A	1			
040314008		4/8/14	1213	Air		X	A	1			
040314010		4/13/14	1245	Air		X	A	1			
040314009		4/13/14	1313	Air		X	A	1			
Relinquished by: (Signature) <u>[Signature]</u>							Date/Time: <u>4/7/14 0700</u>		Laboratory Work Order No.: <u>14040335</u> Received on Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Received by: (Signature) <u>[Signature]</u>							Date/Time: <u>4/8/14 1319</u>				
Relinquished by: (Signature) <u>[Signature]</u>							Date/Time: <u>4/8/14 1732</u>				
Received by: (Signature) <u>[Signature]</u>							Date/Time: <u>4/8/14 1732</u>				
Relinquished by: (Signature) _____							Date/Time: _____		Preservation Code: A = None B = HNO <sub>3</sub> C = NaOH D = H <sub>2</sub> SO <sub>4</sub> E = HCl F = 5035/EnCore G = Other Temperature: <u>Ambient</u>		
Received by: (Signature) _____							Date/Time: _____				

14 of 26

### Sample Receipt Checklist

Client Name **NRT**

Date and Time Received: **4/8/2014 5:32:00 PM**

Work Order Number **14040335**

Received by: **DO**

Checklist completed by:  : \_\_\_\_\_  
Signature

**4/8/14**  
Date

Reviewed by:  \_\_\_\_\_  
Initials

**04/23/2014**  
Date

Matrix: \_\_\_\_\_ Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature Ambient °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

\_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# Analytical Run Summary

Run ID: GC-TCD1\_140410A (R97872)

Analyst: BK

Printed: 23-Apr-14

SeqNo	Sample ID	Type	Test Code	Batch	DF	File ID	Date/Time Analyzed
2644659	CCV041014-3C L4	CCV	D1946	R97872	1	TCD\041014\04101401.	04/10/2014 7:15
2650828	CCV041014-3C L4	CCV	EPA_3C	R97872	1	TCD\041014\04101401.	04/10/2014 7:15
2650829	LCS041014-3C L3	LCS	EPA_3C	R97872	2	TCD\041014\04101402.	04/10/2014 7:33
2644660	LCS041014-3C L3	LCS	D1946	R97872	2	TCD\041014\04101402.	04/10/2014 7:33
2650830	MB041014-3C	MBLK	EPA_3C	R97872	2	TCD\041014\04101403.	04/10/2014 7:52
2644661	MB041014-3C	MBLK	D1946	R97872	2	TCD\041014\04101403.	04/10/2014 7:52
2644662	14040335-007A	SAMP	D1946	R97872	2	TCD\041014\04101404.	04/10/2014 8:10
2650840	14040335-007A	SAMP	EPA_3C	R97872	2	TCD\041014\04101404.	04/10/2014 8:10
2644663	14040335-007A	DUP	D1946	R97872	2	TCD\041014\04101405.	04/10/2014 8:29
2650841	14040335-007A	DUP	EPA_3C	R97872	2	TCD\041014\04101405.	04/10/2014 8:29
2644664	14040335-001A	SAMP	D1946	R97872	2	TCD\041014\04101406.	04/10/2014 8:49
2650842	14040335-001A	SAMP	EPA_3C	R97872	2	TCD\041014\04101406.	04/10/2014 8:49
2644665	14040335-001A	DUP	D1946	R97872	2	TCD\041014\04101407.	04/10/2014 9:08
2650844	14040335-001A	DUP	EPA_3C	R97872	2	TCD\041014\04101407.	04/10/2014 9:08
2644666	14040335-002A	SAMP	D1946	R97872	2	TCD\041014\04101408.	04/10/2014 9:28
2650845	14040335-002A	SAMP	EPA_3C	R97872	2	TCD\041014\04101408.	04/10/2014 9:28
2650846	14040335-002A	DUP	EPA_3C	R97872	2	TCD\041014\04101409.	04/10/2014 9:53
2644667	14040335-002A	DUP	D1946	R97872	2	TCD\041014\04101409.	04/10/2014 9:53
2644668	14040335-003A	SAMP	D1946	R97872	2	TCD\041014\04101410.	04/10/2014 10:12
2650847	14040335-003A	SAMP	EPA_3C	R97872	2	TCD\041014\04101410.	04/10/2014 10:12
2644669	14040335-003A	DUP	D1946	R97872	2	TCD\041014\04101411.	04/10/2014 10:31
2650848	14040335-003A	DUP	EPA_3C	R97872	2	TCD\041014\04101411.	04/10/2014 10:31
2650849	14040335-004A	SAMP	EPA_3C	R97872	2	TCD\041014\04101412.	04/10/2014 10:50
2644670	14040335-004A	SAMP	D1946	R97872	2	TCD\041014\04101412.	04/10/2014 10:50
2644671	14040335-004A	DUP	D1946	R97872	2	TCD\041014\04101413.	04/10/2014 11:09
2650850	14040335-004A	DUP	EPA_3C	R97872	2	TCD\041014\04101413.	04/10/2014 11:09
2644672	14040335-005A	SAMP	D1946	R97872	2	TCD\041014\04101414.	04/10/2014 11:28
2650851	14040335-005A	SAMP	EPA_3C	R97872	2	TCD\041014\04101414.	04/10/2014 11:28
2644673	14040335-005A	DUP	D1946	R97872	2	TCD\041014\04101415.	04/10/2014 11:47
2650852	14040335-005A	DUP	EPA_3C	R97872	2	TCD\041014\04101415.	04/10/2014 11:47
2644674	14040335-006A	SAMP	D1946	R97872	2	TCD\041014\04101416.	04/10/2014 12:06
2650861	14040335-006A	SAMP	EPA_3C	R97872	2	TCD\041014\04101416.	04/10/2014 12:06
2644675	14040335-006A	DUP	D1946	R97872	2	TCD\041014\04101417.	04/10/2014 12:25
2650862	14040335-006A	DUP	EPA_3C	R97872	2	TCD\041014\04101417.	04/10/2014 12:25
2644676	14040335-008A	SAMP	D1946	R97872	2	TCD\041014\04101418.	04/10/2014 12:44
2650863	14040335-008A	SAMP	EPA_3C	R97872	2	TCD\041014\04101418.	04/10/2014 12:44
2644677	14040335-008A	DUP	D1946	R97872	2	TCD\041014\04101419.	04/10/2014 13:05
2650864	14040335-008A	DUP	EPA_3C	R97872	2	TCD\041014\04101419.	04/10/2014 13:05
2650865	14040335-009A	SAMP	EPA_3C	R97872	2	TCD\041014\04101420.	04/10/2014 13:25
2644678	14040335-009A	SAMP	D1946	R97872	2	TCD\041014\04101420.	04/10/2014 13:25
2644679	14040335-009A	DUP	D1946	R97872	2	TCD\041014\04101421.	04/10/2014 13:44
2650866	14040335-009A	DUP	EPA_3C	R97872	2	TCD\041014\04101421.	04/10/2014 13:44

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## Analytical Run Summary

Run ID: GC-TCD1\_140410A (R97872)

Analyst: BK

Printed: 23-Apr-14

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SeqNo	Sample ID	Type	Test Code	Batch	DF	File ID	Date/Time Analyzed
2650867	CCV041014C-3C L4	CCV	EPA_3C	R97872	1	TCD\041014\04101422.	04/10/2014 14:03
2644731	CCV041014C-3C L4	CCV	D1946	R97872	1	TCD\041014\04101422.	04/10/2014 14:03

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**CLIENT:** Natural Resource Technology, Inc.  
**Work Order:** 14040335  
**Project:** 1549, Marinette Former MGP, Marinette, WI

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97872**

Sample ID: <b>MB041014-3C</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140410A</b>
Client ID: <b>ZZZZ</b>	Batch ID: <b>R97872</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>4/10/2014</b>	SeqNo: <b>2650830</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	ND	0.0800									
Methane	ND	0.100									
Oxygen	0.04	0.800									J

Sample ID: <b>LCS041014-3C L3</b>	SampType: <b>LCS</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140410A</b>
Client ID: <b>ZZZZ</b>	Batch ID: <b>R97872</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>4/10/2014</b>	SeqNo: <b>2650829</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	0.59	0.0800	0.6	0	98.3	80	120	0	0		
Methane	0.89	0.100	1	0	89	80	120	0	0		
Oxygen	0.81	0.800	0.8	0.04	96.2	80	120	0	0		

Sample ID: <b>14040335-007A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140410A</b>
Client ID: <b>040314004</b>	Batch ID: <b>R97872</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>4/10/2014</b>	SeqNo: <b>2650841</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	0.49	0.0800	0	0	0	0	0	0.496	1.22	5	
Methane	ND	0.100	0	0	0	0	0	0	0	5	
Oxygen	16.61	0.800	0	0	0	0	0	16.51	0.616	5	

Sample ID: <b>14040335-001A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140410A</b>
Client ID: <b>040314001</b>	Batch ID: <b>R97872</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>4/10/2014</b>	SeqNo: <b>2650844</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	4.13	0.0800	0	0	0	0	0	4.126	0.0969	5	
Methane	ND	0.100	0	0	0	0	0	0	0	5	
Oxygen	10.98	0.800	0	0	0	0	0	11.02	0.309	5	

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits * - Non Accredited Parameter	S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits H/HT - Holding Time Exceeded	B - Analyte detected in the associated Method Blank E - Value above quantitation range
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**CLIENT:** Natural Resource Technology, Inc.  
**Work Order:** 14040335  
**Project:** 1549, Marinette Former MGP, Marinette, WI

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97872**

Sample ID: <b>14040335-002A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140410A</b>						
Client ID: <b>040314002</b>	Batch ID: <b>R97872</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>4/10/2014</b>	SeqNo: <b>2650846</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon Dioxide	4.096	0.0800	0	0	0	0	0	4.078	0.440	5
Methane	ND	0.100	0	0	0	0	0	0	0	5
Oxygen	11.02	0.800	0	0	0	0	0	10.93	0.784	5

Sample ID: <b>14040335-003A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140410A</b>						
Client ID: <b>040314005</b>	Batch ID: <b>R97872</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>4/10/2014</b>	SeqNo: <b>2650848</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon Dioxide	9.248	0.0800	0	0	0	0	0	9.466	2.33	5
Methane	ND	0.100	0	0	0	0	0	0	0	5
Oxygen	6.39	0.800	0	0	0	0	0	6.38	0.157	5

Sample ID: <b>14040335-004A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140410A</b>						
Client ID: <b>040314003</b>	Batch ID: <b>R97872</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>4/10/2014</b>	SeqNo: <b>2650850</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon Dioxide	5.912	0.0800	0	0	0	0	0	5.914	0.0338	5
Methane	ND	0.100	0	0	0	0	0	0	0	5
Oxygen	7.906	0.800	0	0	0	0	0	7.93	0.303	5

Sample ID: <b>14040335-005A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140410A</b>						
Client ID: <b>040314006</b>	Batch ID: <b>R97872</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>4/10/2014</b>	SeqNo: <b>2650852</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon Dioxide	8.738	0.0800	0	0	0	0	0	8.756	0.206	5
Methane	ND	0.100	0	0	0	0	0	0	0	5
Oxygen	6.898	0.800	0	0	0	0	0	6.81	1.28	5

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

**CLIENT:** Natural Resource Technology, Inc.  
**Work Order:** 14040335  
**Project:** 1549, Marinette Former MGP, Marinette, WI

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97872**

Sample ID: <b>14040335-006A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140410A</b>						
Client ID: <b>040314007</b>	Batch ID: <b>R97872</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>4/10/2014</b>	SeqNo: <b>2650862</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon Dioxide	8.454	0.0800	0	0	0	0	0	8.444	0.118	5	
Methane	ND	0.100	0	0	0	0	0	0	0	5	
Oxygen	7.024	0.800	0	0	0	0	0	6.994	0.428	5	

Sample ID: <b>14040335-008A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140410A</b>						
Client ID: <b>040314008</b>	Batch ID: <b>R97872</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>4/10/2014</b>	SeqNo: <b>2650864</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon Dioxide	1.44	0.0800	0	0	0	0	0	1.446	0.416	5	
Methane	ND	0.100	0	0	0	0	0	0	0	5	
Oxygen	15.35	0.800	0	0	0	0	0	15.28	0.444	5	

Sample ID: <b>14040335-009A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140410A</b>						
Client ID: <b>040314010</b>	Batch ID: <b>R97872</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>4/10/2014</b>	SeqNo: <b>2650866</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon Dioxide	0.08	0.0800	0	0	0	0	0	0.082	2.47	5	
Methane	ND	0.100	0	0	0	0	0	0	0	5	
Oxygen	16.57	0.800	0	0	0	0	0	16.58	0.0724	5	

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

# Analytical Run Summary

Run ID: GC-TCD1\_140411A (R97907)

Analyst: BK

Printed: 23-Apr-14

SeqNo	Sample ID	Type	Test Code	Batch	DF	File ID	Date/Time Analyzed
2645660	CCV041114-3C L3	CCV	EPA_3C	R97907	2	TCD\041114\04111401.	04/11/2014 7:33
2645644	CCV041114-3C L3	CCV	D1946	R97907	1	TCD\041114\04111401.	04/11/2014 7:33
2645662	LCS041114-3C L3	LCS	EPA_3C	R97907	2	TCD\041114\04111402.	04/11/2014 7:52
2645645	LCS041114-3C L3	LCS	D1946	R97907	2	TCD\041114\04111402.	04/11/2014 7:52
2645646	MB041114-3C	MBLK	D1946	R97907	2	TCD\041114\04111403.	04/11/2014 8:10
2645663	MB041114-3C	MBLK	EPA_3C	R97907	2	TCD\041114\04111403.	04/11/2014 8:10
2650870	14040335-010A	SAMP	EPA_3C	R97907	2	TCD\041114\04111404.	04/11/2014 8:30
2645647	14040335-010A	SAMP	D1946	R97907	2	TCD\041114\04111404.	04/11/2014 8:30
2645658	14040335-010A	DUP	D1946	R97907	2	TCD\041114\04111405.	04/11/2014 8:49
2650871	14040335-010A	DUP	EPA_3C	R97907	2	TCD\041114\04111405.	04/11/2014 8:49
2645665	14040383-001A	SAMP	EPA_3C	R97907	2	TCD\041114\04111406.	04/11/2014 9:08
2645667	14040383-001A	DUP	EPA_3C	R97907	2	TCD\041114\04111407.	04/11/2014 9:27
2645668	14040383-002A	SAMP	EPA_3C	R97907	2	TCD\041114\04111408.	04/11/2014 9:47
2645670	14040383-002A	DUP	EPA_3C	R97907	2	TCD\041114\04111409.	04/11/2014 10:07
2645718	14040383-003A	SAMP	EPA_3C	R97907	2	TCD\041114\04111410.	04/11/2014 10:26
2645720	14040383-003A	DUP	EPA_3C	R97907	2	TCD\041114\04111411.	04/11/2014 10:45
2645680	14040383-004A	SAMP	EPA_3C	R97907	2	TCD\041114\04111412.	04/11/2014 11:04
2645682	14040383-004A	DUP	EPA_3C	R97907	2	TCD\041114\04111413.	04/11/2014 11:23
2645686	14040383-005A	SAMP	EPA_3C	R97907	2	TCD\041114\04111414.	04/11/2014 11:43
2645687	14040383-005A	DUP	EPA_3C	R97907	2	TCD\041114\04111415.	04/11/2014 12:02
2645698	14040383-006A	SAMP	EPA_3C	R97907	2	TCD\041114\04111416.	04/11/2014 12:21
2645701	14040383-006A	DUP	EPA_3C	R97907	2	TCD\041114\04111417.	04/11/2014 12:40
2645727	14040383-007A	SAMP	EPA_3C	R97907	2	TCD\041114\04111418.	04/11/2014 12:59
2645728	14040383-007A	DUP	EPA_3C	R97907	2	TCD\041114\04111419.	04/11/2014 13:17
2645745	14040383-008A	SAMP	EPA_3C	R97907	2	TCD\041114\04111420.	04/11/2014 13:37
2645746	14040383-008A	DUP	EPA_3C	R97907	2	TCD\041114\04111421.	04/11/2014 13:57
2645747	CCV041114C-3C L3	CCV	EPA_3C	R97907	1	TCD\041114\04111422.	04/11/2014 14:16
2645748	CCV041114C-3C L3	CCV	D1946	R97907	1	TCD\041114\04111422.	04/11/2014 14:16

**CLIENT:** Natural Resource Technology, Inc.  
**Work Order:** 14040335  
**Project:** 1549, Marinette Former MGP, Marinette, WI

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97907**

Sample ID: <b>MB041114-3C</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA_3C</b>		Units: <b>mol %</b>		Prep Date:		Run ID: <b>GC-TCD1_140411A</b>		
Client ID: <b>ZZZZZ</b>		Batch ID: <b>R97907</b>		TestNo: <b>Method 3c</b>				Analysis Date: <b>4/11/2014</b>		SeqNo: <b>2645663</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Carbon Dioxide	ND	0.0800										
Methane	ND	0.100										
Oxygen	0.036	0.800									J	

Sample ID: <b>LCS041114-3C L3</b>		SampType: <b>LCS</b>		TestCode: <b>EPA_3C</b>		Units: <b>mol %</b>		Prep Date:		Run ID: <b>GC-TCD1_140411A</b>		
Client ID: <b>ZZZZZ</b>		Batch ID: <b>R97907</b>		TestNo: <b>Method 3c</b>				Analysis Date: <b>4/11/2014</b>		SeqNo: <b>2645662</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Carbon Dioxide	0.636	0.0800	0.6	0	106	80	120	0	0			
Methane	0.904	0.100	1	0	90.4	80	120	0	0			
Oxygen	0.86	0.800	0.8	0.036	103	80	120	0	0			

Sample ID: <b>14040335-010A</b>		SampType: <b>DUP</b>		TestCode: <b>EPA_3C</b>		Units: <b>mol %</b>		Prep Date:		Run ID: <b>GC-TCD1_140411A</b>		
Client ID: <b>040314009</b>		Batch ID: <b>R97907</b>		TestNo: <b>Method 3c</b>				Analysis Date: <b>4/11/2014</b>		SeqNo: <b>2650871</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Carbon Dioxide	0.942	0.0800	0	0	0	0	0	0.952	1.06	5		
Methane	ND	0.100	0	0	0	0	0	0	0	5		
Oxygen	15.97	0.800	0	0	0	0	0	15.83	0.881	5		

<p><b>Qualifiers:</b></p> <p>ND - Not Detected at the Reporting Limit</p> <p>J - Analyte detected below quantitation limits</p> <p>* - Non Accredited Parameter</p>	<p>S - Spike Recovery outside accepted recovery limits</p> <p>R - RPD outside accepted recovery limits</p> <p>H/HT - Holding Time Exceeded</p>	<p>B - Analyte detected in the associated Method Blank</p> <p>E - Value above quantitation range</p>
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# Analytical Run Summary

Run ID: VOA-5\_140411A (R97903)

Analyst: VP

Printed: 23-Apr-14

SeqNo	Sample ID	Type	Test Code	Batch	DF	File ID	Date/Time Analyzed
2645526	CCV041114-5 10.0	CCV	TO_15A+	R97903	1	04111401.D	04/11/2014 8:11
2645525	BFB041114-5	TUNE	BFB	R97903	1	04111401.D	04/11/2014 8:11
2646540	MB041114-5	MBLK	TO_15UG+	R97903	1	04111402.D	04/11/2014 8:46
2645527	MB041114-5	MBLK	TO_15A+	R97903	1	04111402.D	04/11/2014 8:46
2646605	MB041114-5	MBLK	TO_15MG+	R97903	1	04111402.D	04/11/2014 8:46
2645528	LCS041114-5 5.0	LCS	TO_15A+	R97903	1	04111404.D	04/11/2014 10:58
2646541	LCS041114-5 5.0	LCS	TO_15UG+	R97903	1	04111404.D	04/11/2014 10:58
2646606	LCS041114-5 5.0	LCS	TO_15MG+	R97903	1	04111404.D	04/11/2014 10:58
2646607	LCSD041114-5 5.0	LCSD	TO_15MG+	R97903	1	04111405.D	04/11/2014 11:33
2645529	LCSD041114-5 5.0	LCSD	TO_15A+	R97903	1	04111405.D	04/11/2014 11:33
2646542	LCSD041114-5 5.0	LCSD	TO_15UG+	R97903	1	04111405.D	04/11/2014 11:33
2646608	14040378-001A	SAMP	TO_15MG+	75678	1	04111406.D	04/11/2014 12:25
2646609	14040378-002A	SAMP	TO_15MG+	75678	1	04111407.D	04/11/2014 13:00
2646610	14040378-003A	SAMP	TO_15MG+	75678	1	04111408.D	04/11/2014 13:35
2646534	14040404-003A	SAMP	TO_15A+	75677	1	04111409.D	04/11/2014 14:32
2646557	14040404-003A	SAMP	TO_15UG+	75677	1	04111409.D	04/11/2014 14:32
2646535	14040404-004A	SAMP	TO_15A+	75677	1	04111410.D	04/11/2014 15:07
2646558	14040404-004A	SAMP	TO_15UG+	75677	1	04111410.D	04/11/2014 15:07
2646536	14040404-005A	SAMP	TO_15A+	75677	1	04111411.D	04/11/2014 15:42
2646559	14040404-005A	SAMP	TO_15UG+	75677	1	04111411.D	04/11/2014 15:42
2646520	14040335-001A	SAMP	TO_15A+	75684	1	04111413.D	04/11/2014 17:22
2646543	14040335-001A	SAMP	TO_15UG+	75684	1	04111413.D	04/11/2014 17:22
2646521	14040335-002A	SAMP	TO_15A+	75684	1	04111414.D	04/11/2014 17:58
2646544	14040335-002A	SAMP	TO_15UG+	75684	1	04111414.D	04/11/2014 17:58
2646522	14040335-003A	SAMP	TO_15A+	75684	1	04111415.D	04/11/2014 18:32
2646546	14040335-003A	SAMP	TO_15UG+	75684	1	04111415.D	04/11/2014 18:32
2646523	14040335-004A	SAMP	TO_15A+	75684	1	04111416.D	04/11/2014 19:07
2646547	14040335-004A	SAMP	TO_15UG+	75684	1	04111416.D	04/11/2014 19:07
2646548	14040335-005A	SAMP	TO_15UG+	75684	1	04111417.D	04/11/2014 19:42
2646524	14040335-005A	SAMP	TO_15A+	75684	1	04111417.D	04/11/2014 19:42
2646549	14040335-006A	SAMP	TO_15UG+	75684	1	04111418.D	04/11/2014 20:16
2646525	14040335-006A	SAMP	TO_15A+	75684	1	04111418.D	04/11/2014 20:16
2646550	14040335-007A	SAMP	TO_15UG+	75684	1	04111419.D	04/11/2014 20:51
2646526	14040335-007A	SAMP	TO_15A+	75684	1	04111419.D	04/11/2014 20:51
2646527	14040335-008A	SAMP	TO_15A+	75684	1	04111420.D	04/11/2014 21:26
2646551	14040335-008A	SAMP	TO_15UG+	75684	1	04111420.D	04/11/2014 21:26
2646528	14040335-009A	SAMP	TO_15A+	75684	1	04111421.D	04/11/2014 22:01
2646552	14040335-009A	SAMP	TO_15UG+	75684	1	04111421.D	04/11/2014 22:01
2646553	14040335-010A	SAMP	TO_15UG+	75684	1	04111422.D	04/11/2014 22:36
2646529	14040335-010A	SAMP	TO_15A+	75684	1	04111422.D	04/11/2014 22:36
2646530	14040383-001A	SAMP	TO_15A+	75684	1	04111423.D	04/11/2014 23:11
2646554	14040383-001A	SAMP	TO_15UG+	75684	1	04111423.D	04/11/2014 23:11



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# Analytical Run Summary

Run ID: VOA-5\_140411A (R97903)

Analyst: VP

Printed: 23-Apr-14

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SeqNo	Sample ID	Type	Test Code	Batch	DF	File ID	Date/Time Analyzed
2646531	14040383-002A	SAMP	TO_15A+	75684	1	04111424.D	04/11/2014 23:46
2646555	14040383-002A	SAMP	TO_15UG+	75684	1	04111424.D	04/11/2014 23:46
2646533	14040383-003A	SAMP	TO_15A+	75684	1	04111425.D	04/12/2014 0:20
2646556	14040383-003A	SAMP	TO_15UG+	75684	1	04111425.D	04/12/2014 0:20

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**CLIENT:** Natural Resource Technology, Inc.  
**Work Order:** 14040335  
**Project:** 1549, Marinette Former MGP, Marinette, WI

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97903**

Sample ID: <b>MB041114-5</b>	SampType: <b>MBLK</b>	TestCode: <b>TO_15A+</b>	Units: <b>ppbv</b>	Prep Date:	Run ID: <b>VOA-5_140411A</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>R97903</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>4/11/2014</b>	SeqNo: <b>2645527</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trimethylbenzene	0.04	0.20									J
Benzene	ND	0.20									
Ethylbenzene	0.03	0.20									J
Naphthalene	0.03	0.050									J
Toluene	ND	0.20									
Xylenes, Total	0.07	0.60									J

Sample ID: <b>LCS041114-5 5.0</b>	SampType: <b>LCS</b>	TestCode: <b>TO_15A+</b>	Units: <b>ppbv</b>	Prep Date:	Run ID: <b>VOA-5_140411A</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>R97903</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>4/11/2014</b>	SeqNo: <b>2645528</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trimethylbenzene	5.94	0.20	5	0.04	118	70	130	0	0		
Benzene	4.47	0.20	5	0	89.4	70	130	0	0		
Ethylbenzene	5.47	0.20	5	0.03	109	70	130	0	0		
Naphthalene	6.05	0.050	5	0.03	120	70	130	0	0		
Toluene	5.36	0.20	5	0	107	70	130	0	0		
Xylenes, Total	16.03	0.60	15	0.07	106	70	130	0	0		

Sample ID: <b>LCSD041114-5 5.0</b>	SampType: <b>LCSD</b>	TestCode: <b>TO_15A+</b>	Units: <b>ppbv</b>	Prep Date:	Run ID: <b>VOA-5_140411A</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>R97903</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>4/11/2014</b>	SeqNo: <b>2645529</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trimethylbenzene	5.89	0.20	5	0.04	117	70	130	5.94	0.845	25	
Benzene	4.5	0.20	5	0	90	70	130	4.47	0.669	25	
Ethylbenzene	5.45	0.20	5	0.03	108	70	130	5.47	0.366	25	
Naphthalene	6.04	0.050	5	0.03	120	70	130	6.05	0.165	25	
Toluene	5.39	0.20	5	0	108	70	130	5.36	0.558	25	
Xylenes, Total	16.1	0.60	15	0.07	107	70	130	16.03	0.436	25	

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

**CLIENT:** Natural Resource Technology, Inc.  
**Work Order:** 14040335  
**Project:** 1549, Marinette Former MGP, Marinette, WI

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97903**

Sample ID: <b>MB041114-5</b>	SampType: <b>MBLK</b>	TestCode: <b>TO_15UG+</b>	Units: <b>µg/m³</b>	Prep Date:	Run ID: <b>VOA-5_140411A</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>R97903</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>4/11/2014</b>	SeqNo: <b>2646540</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trimethylbenzene	0.1966	1.0									J
Benzene	ND	0.60									
Ethylbenzene	0.1303	0.90									J
Naphthalene	0.1573	0.26									J
Toluene	ND	0.80									
Xylenes, Total	0.3039	2.6									J

Sample ID: <b>LCS041114-5 5.0</b>	SampType: <b>LCS</b>	TestCode: <b>TO_15UG+</b>	Units: <b>µg/m³</b>	Prep Date:	Run ID: <b>VOA-5_140411A</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>R97903</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>4/11/2014</b>	SeqNo: <b>2646541</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trimethylbenzene	29.2	1.0	24.58	0.1966	118	70	130	0	0		
Benzene	14.28	0.60	15.97	0	89.4	70	130	0	0		
Ethylbenzene	23.75	0.90	21.71	0.1303	109	70	130	0	0		
Naphthalene	31.71	0.26	26.21	0.1573	120	70	130	0	0		
Toluene	20.2	0.80	18.84	0	107	70	130	0	0		
Xylenes, Total	69.6	2.6	65.13	0.3039	106	70	130	0	0		

Sample ID: <b>LCSD041114-5 5.0</b>	SampType: <b>LCSD</b>	TestCode: <b>TO_15UG+</b>	Units: <b>µg/m³</b>	Prep Date:	Run ID: <b>VOA-5_140411A</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>R97903</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>4/11/2014</b>	SeqNo: <b>2646542</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trimethylbenzene	28.95	1.0	24.58	0.1966	117	70	130	29.2	0.845	25	
Benzene	14.38	0.60	15.97	0	90	70	130	14.28	0.669	25	
Ethylbenzene	23.66	0.90	21.71	0.1303	108	70	130	23.75	0.366	25	
Naphthalene	31.66	0.26	26.21	0.1573	120	70	130	31.71	0.165	25	
Toluene	20.31	0.80	18.84	0	108	70	130	20.2	0.558	25	
Xylenes, Total	69.9	2.6	65.13	0.3039	107	70	130	69.6	0.436	25	

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      E - Value above quantitation range  
 \* - Non Accredited Parameter      H/HT - Holding Time Exceeded

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

August 19, 2014

Natural Resource Technology, Inc.

415A S. 3rd Street

Milwaukee, WI 53204

Telephone: (414) 837-3554

Fax: (414) 837-3608

Analytical Report for STAT Work Order: 14080238 Revision 0

RE: 1549, Marinette MGP, Marinette, WI

Dear Jody Barbeau:

STAT Analysis received 9 samples for the referenced project on 8/6/2014 5:13:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla

Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Natural Resource Technology, Inc.  
**Project:** 1549, Marinette MGP, Marinette, WI  
**Work Order:** 14080238 Revision 0

**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
14080238-001A	080414001		8/4/2014 1:30:00 PM	8/6/2014
14080238-002A	080414002		8/4/2014 2:04:00 PM	8/6/2014
14080238-003A	080414003		8/4/2014 2:28:00 PM	8/6/2014
14080238-004A	080514002		8/5/2014 8:03:00 AM	8/6/2014
14080238-005A	080514003		8/5/2014 8:03:00 AM	8/6/2014
14080238-006A	080514001		8/5/2014 8:34:00 AM	8/6/2014
14080238-007A	080514004		8/5/2014 9:29:00 AM	8/6/2014
14080238-008A	080514005		8/5/2014 10:43:00 AM	8/6/2014
14080238-009A	080514006		8/5/2014 11:28:00 AM	8/6/2014

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: August 19, 2014

**ANALYTICAL RESULTS**

Print Date: August 19, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 080414001

Work Order: 14080238 Revision 0

Tag Number:

Project: 1549, Marinette MGP, Marinette, WI

Collection Date: 8/4/2014 1:30:00 PM

Lab ID: 14080238-001A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>		Prep Date:		Analyst: <b>BK</b>	
Carbon Dioxide	1.07	0.08		mol %	2	8/7/2014
Methane	ND	0.10		mol %	2	8/7/2014
Oxygen	16.2	0.80		mol %	2	8/7/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>8/7/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	7.2	1.7		µg/m <sup>3</sup>	1	8/8/2014
Benzene	ND	1.1		µg/m <sup>3</sup>	1	8/8/2014
Ethylbenzene	3.9	1.5		µg/m <sup>3</sup>	1	8/8/2014
Naphthalene	1.8	0.45		µg/m <sup>3</sup>	1	8/8/2014
Toluene	22	1.3		µg/m <sup>3</sup>	1	8/8/2014
Xylenes, Total	22	4.5		µg/m <sup>3</sup>	1	8/8/2014

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: August 19, 2014

**ANALYTICAL RESULTS**

Print Date: August 19, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 080414002

Work Order: 14080238 Revision 0

Tag Number:

Project: 1549, Marinette MGP, Marinette, WI

Collection Date: 8/4/2014 2:04:00 PM

Lab ID: 14080238-002A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>		Prep Date:		Analyst: <b>BK</b>	
Carbon Dioxide	10.6	0.08		mol %	2	8/7/2014
Methane	ND	0.10		mol %	2	8/7/2014
Oxygen	6.09	0.80		mol %	2	8/7/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>8/7/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	ND	1.7		µg/m <sup>3</sup>	1	8/8/2014
Benzene	ND	1.1		µg/m <sup>3</sup>	1	8/8/2014
Ethylbenzene	ND	1.5		µg/m <sup>3</sup>	1	8/8/2014
Naphthalene	0.45	0.45		µg/m <sup>3</sup>	1	8/8/2014
Toluene	1.4	1.3		µg/m <sup>3</sup>	1	8/8/2014
Xylenes, Total	8.5	4.5		µg/m <sup>3</sup>	1	8/8/2014

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: August 19, 2014

**ANALYTICAL RESULTS**

Print Date: August 19, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 080414003

Work Order: 14080238 Revision 0

Tag Number:

Project: 1549, Marinette MGP, Marinette, WI

Collection Date: 8/4/2014 2:28:00 PM

Lab ID: 14080238-003A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>		Prep Date:		Analyst: <b>BK</b>	
Carbon Dioxide	0.83	0.08		mol %	2	8/7/2014
Methane	ND	0.10		mol %	2	8/7/2014
Oxygen	16.3	0.80		mol %	2	8/7/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>8/7/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	9.8	1.9		µg/m <sup>3</sup>	1	8/8/2014
Benzene	1.5	1.2		µg/m <sup>3</sup>	1	8/8/2014
Ethylbenzene	7.4	1.7		µg/m <sup>3</sup>	1	8/8/2014
Naphthalene	2.0	0.51		µg/m <sup>3</sup>	1	8/8/2014
Toluene	38	1.5		µg/m <sup>3</sup>	1	8/8/2014
Xylenes, Total	39	5.1		µg/m <sup>3</sup>	1	8/8/2014

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: August 19, 2014

**ANALYTICAL RESULTS**

Print Date: August 19, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 080514002

Work Order: 14080238 Revision 0

Tag Number:

Project: 1549, Marinette MGP, Marinette, WI

Collection Date: 8/5/2014 8:03:00 AM

Lab ID: 14080238-004A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>		Prep Date:		Analyst: <b>BK</b>	
Carbon Dioxide	1.00	0.08		mol %	2	8/7/2014
Methane	ND	0.10		mol %	2	8/7/2014
Oxygen	16.4	0.80		mol %	2	8/7/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>8/7/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	ND	2.0		µg/m <sup>3</sup>	1	8/8/2014
Benzene	ND	1.3		µg/m <sup>3</sup>	1	8/8/2014
Ethylbenzene	ND	1.8		µg/m <sup>3</sup>	1	8/8/2014
Naphthalene	ND	0.53		µg/m <sup>3</sup>	1	8/8/2014
Toluene	2.6	1.5		µg/m <sup>3</sup>	1	8/8/2014
Xylenes, Total	ND	5.3		µg/m <sup>3</sup>	1	8/8/2014

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: August 19, 2014

**ANALYTICAL RESULTS**

Print Date: August 19, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 080514003

Work Order: 14080238 Revision 0

Tag Number:

Project: 1549, Marinette MGP, Marinette, WI

Collection Date: 8/5/2014 8:03:00 AM

Lab ID: 14080238-005A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>				Prep Date:	Analyst: <b>BK</b>
Carbon Dioxide	1.01	0.08		mol %	2	8/7/2014
Methane	ND	0.10		mol %	2	8/7/2014
Oxygen	16.4	0.80		mol %	2	8/7/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>8/7/2014</b>	Analyst: <b>VP</b>
1,2,4-Trimethylbenzene	ND	2.0		µg/m <sup>3</sup>	1	8/8/2014
Benzene	ND	1.3		µg/m <sup>3</sup>	1	8/8/2014
Ethylbenzene	ND	1.8		µg/m <sup>3</sup>	1	8/8/2014
Naphthalene	ND	0.54		µg/m <sup>3</sup>	1	8/8/2014
Toluene	2.7	1.6		µg/m <sup>3</sup>	1	8/8/2014
Xylenes, Total	ND	5.4		µg/m <sup>3</sup>	1	8/8/2014

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: August 19, 2014

**ANALYTICAL RESULTS**

Print Date: August 19, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 080514001

Work Order: 14080238 Revision 0

Tag Number:

Project: 1549, Marinette MGP, Marinette, WI

Collection Date: 8/5/2014 8:34:00 AM

Lab ID: 14080238-006A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>		Prep Date:		Analyst: <b>BK</b>	
Carbon Dioxide	12.5	0.08		mol %	2	8/7/2014
Methane	ND	0.10		mol %	2	8/7/2014
Oxygen	6.27	0.80		mol %	2	8/7/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>8/7/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	ND	1.8		µg/m <sup>3</sup>	1	8/8/2014
Benzene	ND	1.1		µg/m <sup>3</sup>	1	8/8/2014
Ethylbenzene	ND	1.6		µg/m <sup>3</sup>	1	8/8/2014
Naphthalene	ND	0.47		µg/m <sup>3</sup>	1	8/8/2014
Toluene	ND	1.4		µg/m <sup>3</sup>	1	8/8/2014
Xylenes, Total	ND	4.7		µg/m <sup>3</sup>	1	8/8/2014

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: August 19, 2014

**ANALYTICAL RESULTS**

Print Date: August 19, 2014

**Client:** Natural Resource Technology, Inc.  
**Work Order:** 14080238 Revision 0  
**Project:** 1549, Marinette MGP, Marinette, WI  
**Lab ID:** 14080238-007A

**Client Sample ID:** 080514004  
**Tag Number:**  
**Collection Date:** 8/5/2014 9:29:00 AM  
**Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>		Prep Date:		Analyst: <b>BK</b>	
Carbon Dioxide	0.12	0.08		mol %	2	8/7/2014
Methane	ND	0.10		mol %	2	8/7/2014
Oxygen	16.9	0.80		mol %	2	8/7/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>8/7/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	7.1	1.8		µg/m <sup>3</sup>	1	8/8/2014
Benzene	ND	1.2		µg/m <sup>3</sup>	1	8/8/2014
Ethylbenzene	3.1	1.6		µg/m <sup>3</sup>	1	8/8/2014
Naphthalene	1.6	0.48		µg/m <sup>3</sup>	1	8/8/2014
Toluene	14	1.4		µg/m <sup>3</sup>	1	8/8/2014
Xylenes, Total	18	4.8		µg/m <sup>3</sup>	1	8/8/2014

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: August 19, 2014

**ANALYTICAL RESULTS**

Print Date: August 19, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 080514005

Work Order: 14080238 Revision 0

Tag Number:

Project: 1549, Marinette MGP, Marinette, WI

Collection Date: 8/5/2014 10:43:00 AM

Lab ID: 14080238-008A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>		Prep Date:		Analyst: <b>BK</b>	
Carbon Dioxide	9.99	0.08		mol %	2	8/7/2014
Methane	ND	0.10		mol %	2	8/7/2014
Oxygen	7.84	0.80		mol %	2	8/7/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>8/7/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	7.0	1.8		µg/m <sup>3</sup>	1	8/8/2014
Benzene	ND	1.2		µg/m <sup>3</sup>	1	8/8/2014
Ethylbenzene	3.8	1.6		µg/m <sup>3</sup>	1	8/8/2014
Naphthalene	1.3	0.48		µg/m <sup>3</sup>	1	8/8/2014
Toluene	21	1.4		µg/m <sup>3</sup>	1	8/8/2014
Xylenes, Total	21	4.8		µg/m <sup>3</sup>	1	8/8/2014

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: August 19, 2014

**ANALYTICAL RESULTS**

Print Date: August 19, 2014

Client: Natural Resource Technology, Inc.

Client Sample ID: 080514006

Work Order: 14080238 Revision 0

Tag Number:

Project: 1549, Marinette MGP, Marinette, WI

Collection Date: 8/5/2014 11:28:00 AM

Lab ID: 14080238-009A

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Landfill Gases by EPA Method 3c</b>	<b>METHOD 3C</b>		Prep Date:		Analyst: <b>BK</b>	
Carbon Dioxide	10.8	0.08		mol %	2	8/8/2014
Methane	ND	0.10		mol %	2	8/8/2014
Oxygen	7.25	0.80		mol %	2	8/8/2014
<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>		Prep Date: <b>8/8/2014</b>		Analyst: <b>VP</b>	
1,2,4-Trimethylbenzene	6.8	1.8		µg/m <sup>3</sup>	1	8/8/2014
Benzene	ND	1.2		µg/m <sup>3</sup>	1	8/8/2014
Ethylbenzene	2.7	1.6		µg/m <sup>3</sup>	1	8/8/2014
Naphthalene	2.3	0.47		µg/m <sup>3</sup>	1	8/8/2014
Toluene	7.3	1.4		µg/m <sup>3</sup>	1	8/8/2014
Xylenes, Total	14	4.7		µg/m <sup>3</sup>	1	8/8/2014

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**CHAIN OF CUSTODY RECORD**

N<sup>o</sup>: 858561 Page: of

Company: <b>NRT</b>		P.O. No.:
Project Number: <b>1549</b>	Client Tracking No.:	Quote No.:
Project Name: <b>Marquette MGP</b>		<div style="transform: rotate(-45deg); font-size: small;">                 12-13-14-15-16-17-18-19-20-21-22-23-24-25                  02-02-04-15-16-18-19-20-21-22-23-24-25             </div>
Project Location: <b>Marquette, WI</b>		
Sampler(s): <b>Steve Wiskes, Andrew Cawase</b>		
Report To: <b>vbarbeau@naturalct.com</b>	Phone:	
<b>bhennings@naturalct.com</b>	Fax:	
QC Level: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/>	e-mail:	Turn Around:
		Results Needed:

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	am/pm	
								Remarks	Lab No.:
080414001	8/4/14	1330	SV		X		1		001
080414002	8/4/14	1404	SV		X		1		002
080414003	8/4/14	1428	SV		X		1		003
080514002	8/5/14	0803	SV		X		1		004
080514003	8/5/14	0803	SV		X		1		005
080514001	8/5/14	0834	SV		X		1		006
080514004	8/5/14	0929	SV		X		1		007
080514005	8/5/14	1043	SV		X		1		008
080514006	8/5/14	1128	SV		X		1		009
									010
									011
									012
									01

Relinquished by: (Signature) <i>Steve Wiskes</i>	Date/Time: 8/5/14 1600	Comments:	Laboratory Work Order No.: <b>14080238</b>
Received by: (Signature) <i>WAW</i>	Date/Time: 8/6/14 1820		
Relinquished by: (Signature) <i>WAW</i>	Date/Time: 8/6/14 1713	Preservation Code: A = None B = HNO <sub>3</sub> C = NaOH D = H <sub>2</sub> SO <sub>4</sub> E = HCl F = 5035/EnCore G = Other	Received on Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Received by: (Signature) <i>WAW</i>	Date/Time: 8/6/14 1713		
Relinquished by: (Signature) <i>WAW</i>	Date/Time:	Temperature: <b>Amb</b> °C	
Received by: (Signature)	Date/Time:		

12 of 23

Sample Receipt Checklist

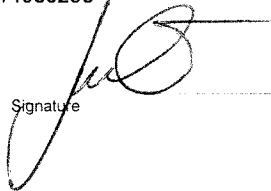
Client Name NRT

Date and Time Received: 8/6/2014 5:13:00 PM

Work Order Number 14080238

Received by: JOK

Checklist completed by:

  
Signature

8/6/14  
Date

Reviewed by:

 08/07/2014  
Initials Date

Matrix:

Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature Ambient °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_

Date contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# Analytical Run Summary

Run ID: VOA-5\_140808A (R101791)

Analyst: VP

Printed: 19-Aug-14

SeqNo	Sample ID	Type	Test Code	Batch	DF	File ID	Date/Time Analyzed
2761168	CCV080814-5 5.0	CCV	TO_15A+	R101791	1	08081401.D	08/08/2014 11:02
2761167	BFB080814-5	TUNE	BFB	R101791	1	08081401.D	08/08/2014 11:02
2764884	MB080814-5	MBLK	TO_15A+	R101791	1	08081402.D	08/08/2014 11:37
2761178	MB080814-5	MBLK	TO_15MG+	R101791	1	08081402.D	08/08/2014 11:37
2761641	MB080814-5	MBLK	TO_15UG+	R101791	1	08081402.D	08/08/2014 11:37
2764885	LCS080814-5 5.0	LCS	TO_15A+	R101791	1	08081403.D	08/08/2014 12:13
2761179	LCS080814-5 5.0	LCS	TO_15MG+	R101791	1	08081403.D	08/08/2014 12:13
2761643	LCS080814-5 5.0	LCS	TO_15UG+	R101791	1	08081403.D	08/08/2014 12:13
2761644	LCSD080814-5 5.0	LCSD	TO_15UG+	R101791	1	08081404.D	08/08/2014 12:48
2764886	LCSD080814-5 5.0	LCSD	TO_15A+	R101791	1	08081404.D	08/08/2014 12:48
2761180	LCSD080814-5 5.0	LCSD	TO_15MG+	R101791	1	08081404.D	08/08/2014 12:48
2764887	14080316-001A	SAMP	TO_15A	78655	1	08081405.D	08/08/2014 13:36
2761181	14080253-001A	SAMP	TO_15MG+	78654	1	08081406.D	08/08/2014 14:43
2761182	14080253-002A	SAMP	TO_15MG+	78654	1	08081407.D	08/08/2014 15:19
2761183	14080314-001A	SAMP	TO_15MG+	78666	500	08081409.D	08/08/2014 16:35
2761645	14080235-001A	SAMP	TO_15UG+	78666	1	08081410.D	08/08/2014 18:12
2761647	14080235-002A	SAMP	TO_15UG+	78666	1	08081411.D	08/08/2014 18:48
2761648	14080235-003A	SAMP	TO_15UG+	78666	1	08081412.D	08/08/2014 19:24
2761649	14080238-004A	SAMP	TO_15UG+	78654	1	08081413.D	08/08/2014 19:59
2761651	14080238-005A	SAMP	TO_15UG+	78654	1	08081414.D	08/08/2014 20:35
2761652	14080238-006A	SAMP	TO_15UG+	78654	1	08081415.D	08/08/2014 21:10
2761654	14080238-007A	SAMP	TO_15UG+	78654	1	08081416.D	08/08/2014 21:46
2761655	14080238-008A	SAMP	TO_15UG+	78654	1	08081417.D	08/08/2014 22:21
2761656	14080238-009A	SAMP	TO_15UG+	78666	1	08081418.D	08/08/2014 22:56

**CLIENT:** Natural Resource Technology, Inc.  
**Work Order:** 14080238  
**Project:** 1549, Marinette MGP, Marinette, WI

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R101791**

Sample ID: <b>MB080814-5</b>	SampType: <b>MBLK</b>	TestCode: <b>TO_15UG+</b>	Units: <b>µg/m³</b>	Prep Date:	Run ID: <b>VOA-5_140808A</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>R101791</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>8/8/2014</b>	SeqNo: <b>2761641</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.64
Ethylbenzene	ND	0.87
Naphthalene	ND	0.26
Toluene	ND	0.75
1,2,4-Trimethylbenzene	ND	0.98
Xylenes, Total	ND	2.6

Sample ID: <b>LCS080814-5 5.0</b>	SampType: <b>LCS</b>	TestCode: <b>TO_15UG+</b>	Units: <b>µg/m³</b>	Prep Date:	Run ID: <b>VOA-5_140808A</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>R101791</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>8/8/2014</b>	SeqNo: <b>2761643</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	14.47	0.64	15.97	0	90.6	70	130	0	0
Ethylbenzene	22.49	0.87	21.71	0	104	70	130	0	0
Naphthalene	25.37	0.26	26.21	0	96.8	70	130	0	0
Toluene	19.59	0.75	18.84	0	104	70	130	0	0
1,2,4-Trimethylbenzene	26.5	0.98	24.58	0	108	70	130	0	0
Xylenes, Total	67.17	2.6	65.13	0	103	70	130	0	0

Sample ID: <b>LCSD080814-5 5.0</b>	SampType: <b>LCSD</b>	TestCode: <b>TO_15UG+</b>	Units: <b>µg/m³</b>	Prep Date:	Run ID: <b>VOA-5_140808A</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>R101791</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>8/8/2014</b>	SeqNo: <b>2761644</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	14.44	0.64	15.97	0	90.4	70	130	14.47	0.221	25
Ethylbenzene	22.36	0.87	21.71	0	103	70	130	22.49	0.581	25
Naphthalene	24.48	0.26	26.21	0	93.4	70	130	25.37	3.58	25
Toluene	19.63	0.75	18.84	0	104	70	130	19.59	0.192	25
1,2,4-Trimethylbenzene	26.35	0.98	24.58	0	107	70	130	26.5	0.558	25
Xylenes, Total	67.17	2.6	65.13	0	103	70	130	67.17	0	25

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

# Analytical Run Summary

Run ID: VOA-5\_140807A (R101740)

Analyst: VP

Printed: 19-Aug-14

SeqNo	Sample ID	Type	Test Code	Batch	DF	File ID	Date/Time Analyzed
2759188	CCV080714-5 2.0	CCV	TO_15A+	R101740	1	08071401.D	08/07/2014 12:46
2759187	BFB080714-5	TUNE	BFB	R101740	1	08071401.D	08/07/2014 12:46
2760916	MB080714-5	MBLK	TO_15UG+	R101740	1	08071402.D	08/07/2014 13:22
2759190	MB080714-5	MBLK	TO_15MG+	R101740	1	08071402.D	08/07/2014 13:22
2760811	MB080714-5	MBLK	TO_15A+	R101740	1	08071402.D	08/07/2014 13:22
2760812	LCS080614-5 5.0	LCS	TO_15A+	R101740	1	08071403.D	08/07/2014 14:38
2760917	LCS080614-5 5.0	LCS	TO_15UG+	R101740	1	08071403.D	08/07/2014 14:38
2759191	LCS080614-5 5.0	LCS	TO_15MG+	R101740	1	08071403.D	08/07/2014 14:38
2760813	LCSD080614-5 5.0	LCSD	TO_15A+	R101740	1	08071404.D	08/07/2014 15:13
2760918	LCSD080614-5 5.0	LCSD	TO_15UG+	R101740	1	08071404.D	08/07/2014 15:13
2759192	LCSD080614-5 5.0	LCSD	TO_15MG+	R101740	1	08071404.D	08/07/2014 15:13
2759193	14080030-001A	SAMP	TO_15MG+	78534	50	08071405.D	08/07/2014 15:49
2760726	14080253-001A	SAMP	TO_15MG+	78654	20	08071409.D	08/07/2014 19:03
2760727	14080253-002A	SAMP	TO_15MG+	78654	20	08071410.D	08/07/2014 19:39
2760814	14080057-002A	SAMP	TO_15A+	78547	2	08071411.D	08/07/2014 20:14
2760925	14080057-002A	SAMP	TO_15UG+	78547	2	08071411.D	08/07/2014 20:14
2760815	14080086-001A	SAMP	TO_15A	78547	1	08071412.D	08/07/2014 20:50
2760728	14080253-003A	SAMP	TO_15MG+	78654	1	08071413.D	08/07/2014 21:25
2760919	14080233-001A	SAMP	TO_15UG+	78652	1	08071414.D	08/07/2014 22:01
2760920	14080233-002A	SAMP	TO_15UG+	78652	1	08071415.D	08/07/2014 22:36
2760921	14080233-003A	SAMP	TO_15UG+	78652	1	08071416.D	08/07/2014 23:12
2760725	14080239-001A	SAMP	TO_15MG+	78654	1	08071417.D	08/07/2014 23:47
2760816	14080240-001A	SAMP	TO_15A+	78653	1	08071418.D	08/08/2014 0:22
2760932	14080240-001A	SAMP	TO_15UG+	78653	1	08071418.D	08/08/2014 0:22
2760817	14080240-002A	SAMP	TO_15A+	78653	1	08071419.D	08/08/2014 0:58
2760933	14080240-002A	SAMP	TO_15UG+	78653	1	08071419.D	08/08/2014 0:58
2760934	14080240-003A	SAMP	TO_15UG+	78653	1	08071420.D	08/08/2014 1:33
2760818	14080240-003A	SAMP	TO_15A+	78653	1	08071420.D	08/08/2014 1:33
2760935	14080240-004A	SAMP	TO_15UG+	78653	1	08071421.D	08/08/2014 2:08
2760819	14080240-004A	SAMP	TO_15A+	78653	1	08071421.D	08/08/2014 2:08
2760922	14080238-001A	SAMP	TO_15UG+	78654	1	08071422.D	08/08/2014 2:44
2760923	14080238-002A	SAMP	TO_15UG+	78654	1	08071423.D	08/08/2014 3:19
2760924	14080238-003A	SAMP	TO_15UG+	78654	1	08071424.D	08/08/2014 3:54

**CLIENT:** Natural Resource Technology, Inc.  
**Work Order:** 14080238  
**Project:** 1549, Marinette MGP, Marinette, WI

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R101740**

Sample ID: <b>MB080714-5</b>	SampType: <b>MBLK</b>	TestCode: <b>TO_15UG+</b>	Units: <b>µg/m³</b>	Prep Date:	Run ID: <b>VOA-5_140807A</b>
Client ID: <b>ZZZZ</b>	Batch ID: <b>R101740</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>8/7/2014</b>	SeqNo: <b>2760916</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	0.98									
Benzene	ND	0.64									
Ethylbenzene	ND	0.87									
Naphthalene	ND	0.26									
Toluene	ND	0.75									
Xylenes, Total	ND	2.6									

Sample ID: <b>LCS080614-5 5.0</b>	SampType: <b>LCS</b>	TestCode: <b>TO_15UG+</b>	Units: <b>µg/m³</b>	Prep Date:	Run ID: <b>VOA-5_140807A</b>
Client ID: <b>ZZZZ</b>	Batch ID: <b>R101740</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>8/7/2014</b>	SeqNo: <b>2760917</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	26.25	0.98	24.58	0	107	70	130	0	0		
Benzene	14.06	0.64	15.97	0	88	70	130	0	0		
Ethylbenzene	22.32	0.87	21.71	0	103	70	130	0	0		
Naphthalene	25.79	0.26	26.21	0	98.4	70	130	0	0		
Toluene	19.22	0.75	18.84	0	102	70	130	0	0		
Xylenes, Total	66.47	2.6	65.13	0	102	70	130	0	0		

Sample ID: <b>LCSD080614-5 5.0</b>	SampType: <b>LCSD</b>	TestCode: <b>TO_15UG+</b>	Units: <b>µg/m³</b>	Prep Date:	Run ID: <b>VOA-5_140807A</b>
Client ID: <b>ZZZZ</b>	Batch ID: <b>R101740</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>8/7/2014</b>	SeqNo: <b>2760918</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	26.3	0.98	24.58	0	107	70	130	26.25	0.187	25	
Benzene	14.06	0.64	15.97	0	88	70	130	14.06	0	25	
Ethylbenzene	22.19	0.87	21.71	0	102	70	130	22.32	0.585	25	
Naphthalene	24.17	0.26	26.21	0	92.2	70	130	25.79	6.51	25	
Toluene	19.14	0.75	18.84	0	102	70	130	19.22	0.393	25	
Xylenes, Total	66.21	2.6	65.13	0	102	70	130	66.47	0.393	25	

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

# Analytical Run Summary

Run ID: GC-TCD1\_140807A (R101728)

Analyst: BK

Printed: 19-Aug-14

SeqNo	Sample ID	Type	Test Code	Batch	DF	File ID	Date/Time Analyzed
2758742	CCV080714-3C L3	CCV	EPA_3C	R101728	1	TCD\080714\08071401.	08/07/2014 8:29
2758743	LCS080714-3C L3	LCS	EPA_3C	R101728	2	TCD\080714\08071402.	08/07/2014 8:47
2758744	MB080714-3C	MBLK	EPA_3C	R101728	2	TCD\080714\08071403.	08/07/2014 9:06
2758745	14080238-001A	SAMP	EPA_3C	R101728	2	TCD\080714\08071404.	08/07/2014 9:28
2758746	14080238-001A	DUP	EPA_3C	R101728	2	TCD\080714\08071405.	08/07/2014 9:47
2758747	14080238-002A	SAMP	EPA_3C	R101728	2	TCD\080714\08071406.	08/07/2014 10:07
2758748	14080238-002A	DUP	EPA_3C	R101728	2	TCD\080714\08071407.	08/07/2014 10:26
2758749	14080238-003A	SAMP	EPA_3C	R101728	2	TCD\080714\08071408.	08/07/2014 10:45
2758750	14080238-003A	DUP	EPA_3C	R101728	2	TCD\080714\08071409.	08/07/2014 11:05
2758755	14080238-004A	SAMP	EPA_3C	R101728	2	TCD\080714\08071410.	08/07/2014 11:28
2758761	14080238-004A	DUP	EPA_3C	R101728	2	TCD\080714\08071411.	08/07/2014 11:47
2758767	14080238-005A	SAMP	EPA_3C	R101728	2	TCD\080714\08071412.	08/07/2014 12:07
2758773	14080238-005A	DUP	EPA_3C	R101728	2	TCD\080714\08071413.	08/07/2014 12:28
2758780	14080238-006A	SAMP	EPA_3C	R101728	2	TCD\080714\08071414.	08/07/2014 12:47
2758788	14080238-006A	DUP	EPA_3C	R101728	2	TCD\080714\08071415.	08/07/2014 13:06
2758793	14080238-007A	SAMP	EPA_3C	R101728	2	TCD\080714\08071416.	08/07/2014 13:27
2758794	14080238-007A	DUP	EPA_3C	R101728	2	TCD\080714\08071417.	08/07/2014 13:45
2758795	14080238-008A	SAMP	EPA_3C	R101728	2	TCD\080714\08071418.	08/07/2014 14:06
2758796	14080238-008A	DUP	EPA_3C	R101728	2	TCD\080714\08071419.	08/07/2014 14:26
2758797	CCV080714C-3C L4	CCV	EPA_3C	R101728	1	TCD\080714\08071420.	08/07/2014 14:46

**CLIENT:** Natural Resource Technology, Inc.  
**Work Order:** 14080238  
**Project:** 1549, Marinette MGP, Marinette, WI

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R101728**

Sample ID: <b>MB080714-3C</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140807A</b>
Client ID: <b>ZZZZ</b>	Batch ID: <b>R101728</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>8/7/2014</b>	SeqNo: <b>2758744</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	ND	0.0800									
Methane	ND	0.100									
Oxygen	ND	0.800									

Sample ID: <b>LCS080714-3C L3</b>	SampType: <b>LCS</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140807A</b>
Client ID: <b>ZZZZ</b>	Batch ID: <b>R101728</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>8/7/2014</b>	SeqNo: <b>2758743</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	0.61	0.0800	0.6	0	102	80	120	0	0		
Methane	0.918	0.100	1	0	91.8	80	120	0	0		
Oxygen	0.826	0.800	0.8	0	103	80	120	0	0		

Sample ID: <b>14080238-001A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140807A</b>
Client ID: <b>080414001</b>	Batch ID: <b>R101728</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>8/7/2014</b>	SeqNo: <b>2758746</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	1.072	0.0800	0	0	0	0	0	1.07	0.187	5	
Methane	ND	0.100	0	0	0	0	0	0	0	5	
Oxygen	16.14	0.800	0	0	0	0	0	16.25	0.642	5	

Sample ID: <b>14080238-002A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140807A</b>
Client ID: <b>080414002</b>	Batch ID: <b>R101728</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>8/7/2014</b>	SeqNo: <b>2758748</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	10.62	0.0800	0	0	0	0	0	10.64	0.188	5	
Methane	0.036	0.100	0	0	0	0	0	0.038	0	5	J
Oxygen	6.128	0.800	0	0	0	0	0	6.086	0.688	5	

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits * - Non Accredited Parameter	S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits H/HT - Holding Time Exceeded	B - Analyte detected in the associated Method Blank E - Value above quantitation range
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**CLIENT:** Natural Resource Technology, Inc.  
**Work Order:** 14080238  
**Project:** 1549, Marinette MGP, Marinette, WI

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R101728**

Sample ID: <b>14080238-003A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140807A</b>						
Client ID: <b>080414003</b>	Batch ID: <b>R101728</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>8/7/2014</b>	SeqNo: <b>2758750</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon Dioxide	0.798	0.0800	0	0	0	0	0	0.828	3.69	5
Methane	ND	0.100	0	0	0	0	0	0	0	5
Oxygen	16.23	0.800	0	0	0	0	0	16.33	0.614	5

Sample ID: <b>14080238-004A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140807A</b>						
Client ID: <b>080514002</b>	Batch ID: <b>R101728</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>8/7/2014</b>	SeqNo: <b>2758761</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon Dioxide	0.99	0.0800	0	0	0	0	0	0.996	0.604	5
Methane	ND	0.100	0	0	0	0	0	0	0	5
Oxygen	16.28	0.800	0	0	0	0	0	16.39	0.710	5

Sample ID: <b>14080238-005A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140807A</b>						
Client ID: <b>080514003</b>	Batch ID: <b>R101728</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>8/7/2014</b>	SeqNo: <b>2758773</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon Dioxide	0.996	0.0800	0	0	0	0	0	1.008	1.20	5
Methane	ND	0.100	0	0	0	0	0	0	0	5
Oxygen	16.38	0.800	0	0	0	0	0	16.37	0.0489	5

Sample ID: <b>14080238-006A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140807A</b>						
Client ID: <b>080514001</b>	Batch ID: <b>R101728</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>8/7/2014</b>	SeqNo: <b>2758788</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon Dioxide	12.35	0.0800	0	0	0	0	0	12.5	1.19	5
Methane	ND	0.100	0	0	0	0	0	0	0	5
Oxygen	6.262	0.800	0	0	0	0	0	6.27	0.128	5

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	E - Value above quantitation range
	* - Non Accredited Parameter	H/HT - Holding Time Exceeded	

**CLIENT:** Natural Resource Technology, Inc.  
**Work Order:** 14080238  
**Project:** 1549, Marinette MGP, Marinette, WI

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R101728**

Sample ID: <b>14080238-007A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140807A</b>						
Client ID: <b>080514004</b>	Batch ID: <b>R101728</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>8/7/2014</b>	SeqNo: <b>2758794</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	0.118	0.0800	0	0	0	0	0	0.12	1.68	5	
Methane	ND	0.100	0	0	0	0	0	0	0	5	
Oxygen	16.82	0.800	0	0	0	0	0	16.95	0.758	5	

Sample ID: <b>14080238-008A</b>	SampType: <b>DUP</b>	TestCode: <b>EPA_3C</b>	Units: <b>mol %</b>	Prep Date:	Run ID: <b>GC-TCD1_140807A</b>						
Client ID: <b>080514005</b>	Batch ID: <b>R101728</b>	TestNo: <b>Method 3c</b>		Analysis Date: <b>8/7/2014</b>	SeqNo: <b>2758796</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	10	0.0800	0	0	0	0	0	9.988	0.140	5	
Methane	ND	0.100	0	0	0	0	0	0	0	5	
Oxygen	7.804	0.800	0	0	0	0	0	7.842	0.486	5	

<b>Qualifiers:</b> ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits * - Non Accredited Parameter	S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits H/HT - Holding Time Exceeded	B - Analyte detected in the associated Method Blank E - Value above quantitation range
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# Analytical Run Summary

Run ID: GC-TCD1\_140808A (R101763)

Analyst: BK

Printed: 19-Aug-14

SeqNo	Sample ID	Type	Test Code	Batch	DF	File ID	Date/Time Analyzed
2760518	CCV080814-3C L4	CCV	EPA_3C	R101763	1	TCD\080814\08081401.	08/08/2014 9:15
2760519	LCS080814-3C L3	LCS	EPA_3C	R101763	2	TCD\080814\08081402.	08/08/2014 9:40
2760520	MB080814-3C	MBLK	EPA_3C	R101763	2	TCD\080814\08081403.	08/08/2014 9:58
2760521	14080238-009A	SAMP	EPA_3C	R101763	2	TCD\080814\08081404.	08/08/2014 10:22
2760522	14080238-009A	DUP	EPA_3C	R101763	2	TCD\080814\08081405.	08/08/2014 10:41
2760523	14080235-001A	SAMP	EPA_3C	R101763	2	TCD\080814\08081406.	08/08/2014 11:01
2760524	14080235-001A	DUP	EPA_3C	R101763	2	TCD\080814\08081407.	08/08/2014 11:20
2760526	14080235-002A	SAMP	EPA_3C	R101763	2	TCD\080814\08081408.	08/08/2014 11:40
2760528	14080235-002A	DUP	EPA_3C	R101763	2	TCD\080814\08081409.	08/08/2014 11:59
2760532	14080235-003A	SAMP	EPA_3C	R101763	2	TCD\080814\08081410.	08/08/2014 12:19
2760533	14080235-003A	DUP	EPA_3C	R101763	2	TCD\080814\08081411.	08/08/2014 12:41

**CLIENT:** Natural Resource Technology, Inc.  
**Work Order:** 14080238  
**Project:** 1549, Marinette MGP, Marinette, WI

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R101763**

Sample ID: <b>MB080814-3C</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA_3C</b>		Units: <b>mol %</b>		Prep Date:		Run ID: <b>GC-TCD1_140808A</b>		
Client ID: <b>ZZZZZ</b>		Batch ID: <b>R101763</b>		TestNo: <b>Method 3c</b>				Analysis Date: <b>8/8/2014</b>		SeqNo: <b>2760520</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Carbon Dioxide	ND	0.0800										
Methane	ND	0.100										
Oxygen	0.164	0.800									J	

Sample ID: <b>LCS080814-3C L3</b>		SampType: <b>LCS</b>		TestCode: <b>EPA_3C</b>		Units: <b>mol %</b>		Prep Date:		Run ID: <b>GC-TCD1_140808A</b>		
Client ID: <b>ZZZZZ</b>		Batch ID: <b>R101763</b>		TestNo: <b>Method 3c</b>				Analysis Date: <b>8/8/2014</b>		SeqNo: <b>2760519</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Carbon Dioxide	0.602	0.0800	0.6	0	100	80	120	0	0			
Methane	0.934	0.100	1	0	93.4	80	120	0	0			
Oxygen	0.838	0.800	0.8	0.164	84.2	80	120	0	0			

Sample ID: <b>14080238-009A</b>		SampType: <b>DUP</b>		TestCode: <b>EPA_3C</b>		Units: <b>mol %</b>		Prep Date:		Run ID: <b>GC-TCD1_140808A</b>		
Client ID: <b>080514006</b>		Batch ID: <b>R101763</b>		TestNo: <b>Method 3c</b>				Analysis Date: <b>8/8/2014</b>		SeqNo: <b>2760522</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Carbon Dioxide	10.74	0.0800	0	0	0	0	0	10.76	0.242	5		
Methane	ND	0.100	0	0	0	0	0	0	0	5		
Oxygen	7.208	0.800	0	0	0	0	0	7.252	0.609	5		

<p><b>Qualifiers:</b></p> <p>ND - Not Detected at the Reporting Limit</p> <p>J - Analyte detected below quantitation limits</p> <p>* - Non Accredited Parameter</p>	<p>S - Spike Recovery outside accepted recovery limits</p> <p>R - RPD outside accepted recovery limits</p> <p>H/HT - Holding Time Exceeded</p>	<p>B - Analyte detected in the associated Method Blank</p> <p>E - Value above quantitation range</p>
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