

January 03, 2022

Douglas Cowin  
Burns & McDonnell - IL  
1431 Opus Place  
Suite 400  
Downers Grove, IL 60515

RE: Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

Dear Douglas Cowin:

Enclosed are the analytical results for sample(s) received by the laboratory on December 18, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

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

- Pace Analytical Services - Green Bay
- Pace Analytical Services - Grand Rapids
- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Ormond Beach

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



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

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### **Pace Analytical Services Ormond Beach**

8 East Tower Circle, Ormond Beach, FL 32174  
Alaska DEC- CS/UST/LUST  
Alabama Certification #: 41320  
Colorado Certification: FL NELAC Reciprocity  
Connecticut Certification #: PH-0216  
Delaware Certification: FL NELAC Reciprocity  
Florida Certification #: E83079  
Georgia Certification #: 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Illinois Certification #: 200068  
Indiana Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Kentucky Certification #: 90050  
Louisiana Certification #: FL NELAC Reciprocity  
Louisiana Environmental Certificate #: 05007  
Maine Certification #: FL01264  
Maryland Certification: #346  
Michigan Certification #: 9911  
Mississippi Certification: FL NELAC Reciprocity  
Missouri Certification #: 236

Montana Certification #: Cert 0074  
Nebraska Certification: NE-OS-28-14  
New Hampshire Certification #: 2958  
New Jersey Certification #: FL022  
New York Certification #: 11608  
North Carolina Environmental Certificate #: 667  
North Carolina Certification #: 12710  
North Dakota Certification #: R-216  
Ohio DEP 87780  
Oklahoma Certification #: D9947  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
South Carolina Certification: #96042001  
Tennessee Certification #: TN02974  
Texas Certification: FL NELAC Reciprocity  
US Virgin Islands Certification: FL NELAC Reciprocity  
Virginia Environmental Certification #: 460165  
West Virginia Certification #: 9962C  
Wisconsin Certification #: 399079670  
Wyoming (EPA Region 8): FL NELAC Reciprocity

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### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302  
Florida/NELAP Certification #: E87948  
Illinois Certification #: 200050  
Kentucky UST Certification #: 82  
Louisiana Certification #: 04168  
Minnesota Certification #: 055-999-334  
New York Certification #: 12064  
North Dakota Certification #: R-150

Virginia VELAP ID: 460263  
South Carolina Certification #: 83006001  
Texas Certification #: T104704529-14-1  
Wisconsin Certification #: 405132750  
Wisconsin DATCP Certification #: 105-444  
USDA Soil Permit #: P330-16-00157  
Federal Fish & Wildlife Permit #: LE51774A-0

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### **Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050  
Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
Wisconsin Laboratory #: 999788130  
USDA Soil Permit #: P330-19-00257

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### **Pace Analytical Services Grand Rapids**

4171 40th Street SE, Kentwood, MI 49512  
Minnesota/TNI Laboratory #026-999-161

Michigan Drinking Water Laboratory #0034

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238530001	KM2R-20211217	Water	12/17/21 11:20	12/18/21 10:15
40238530002	KM2R-20211218	Water	12/17/21 11:20	12/18/21 10:15

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40238530001	KM2R-20211217	EPA 1664A	HMO	1	PASI-I
		SM 2130B-11	JTW	1	PASI-GR
		SM 4500-H+B	NRC	1	PASI-GR
		SM 4500-NO3 F-11	JTW	3	PASI-GR
		SM 5210B-11	JTW	1	PASI-GR
		EPA 200.8	KXS	19	PASI-G
		EPA 8270E	RJN	76	PASI-G
		EPA 8260	JAV	77	PASI-G
		EPA 120.1	HNT	1	PASI-G
		SM 2320B	TMK	3	PASI-G
		SM 2540C	TMK	1	PASI-G
		SM 2540D	HNT	1	PASI-G
		SM 4500-CI D	AGS	1	PASI-O
		SM 5540C	TKG	1	PASI-I
		TKN+NO3+NO2 Calculation	BAF	1	PASI-G
		EPA 300.0	HMB	4	PASI-G
		EPA 350.1	TMK	1	PASI-G
		EPA 351.2	TMK	1	PASI-G
		EPA 353.2	DAW	1	PASI-G
		EPA 365.4	DAW	1	PASI-G
		EPA 410.4	TMK	1	PASI-G
		EPA 9060	TJJ	5	PASI-G
40238530002	KM2R-20211218	EPA 8260	JAV	77	PASI-G

PASI-G = Pace Analytical Services - Green Bay  
PASI-GR = Pace Analytical Services - Grand Rapids  
PASI-I = Pace Analytical Services - Indianapolis  
PASI-O = Pace Analytical Services - Ormond Beach

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

**Sample: KM2R-20211217**      **Lab ID: 40238530001**      Collected: 12/17/21 11:20      Received: 12/18/21 10:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>HEM, Oil and Grease</b>									
Analytical Method: EPA 1664A Pace Analytical Services - Indianapolis									
Oil and Grease	<b>1.2J</b>	mg/L	5.0	0.80	1		12/22/21 15:17		
<b>2130B Turbidity</b>									
Analytical Method: SM 2130B-11 Pace Analytical Services - Grand Rapids									
Turbidity	<b>2.2</b>	NTU	1.0	0.12	1		12/17/21 16:49		
<b>4500H+ pH, Electrometric</b>									
Analytical Method: SM 4500-H+B Pace Analytical Services - Grand Rapids									
pH at 25 Degrees C	<b>8.2</b>	Std. Units	1.0	1.0	1		12/17/21 16:57		H3
<b>4500-NO3 F NO2/NO3 unpres</b>									
Analytical Method: SM 4500-NO3 F-11 Pace Analytical Services - Grand Rapids									
Nitrogen, NO2 plus NO3	<b>2.0</b>	mg/L	0.25	0.045	5		12/17/21 17:45		
Nitrogen, Nitrate	<b>2.0</b>	mg/L	0.25	0.045	5		12/17/21 17:45	14797-55-8	
Nitrogen, Nitrite	<b>0.011</b>	mg/L	0.010	0.0090	1		12/17/21 17:21	14797-65-0	
<b>5210B BOD, 5 day</b>									
Analytical Method: SM 5210B-11 Preparation Method: SM 5210B-11 Pace Analytical Services - Grand Rapids									
BOD, 5 day	<b>1.2J</b>	mg/L	2.0	1.0	1	12/17/21 16:57	12/22/21 17:49		
<b>200.8 MET ICPMS</b>									
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Green Bay									
Aluminum	<b>&lt;58.7</b>	ug/L	250	58.7	1	12/22/21 05:08	12/28/21 01:05	7429-90-5	
Arsenic	<b>0.89J</b>	ug/L	1.0	0.28	1	12/22/21 05:08	12/28/21 01:05	7440-38-2	
Barium	<b>40.3</b>	ug/L	2.3	0.70	1	12/22/21 05:08	12/28/21 01:05	7440-39-3	
Boron	<b>18.7</b>	ug/L	10.0	3.0	1	12/22/21 05:08	12/28/21 09:58	7440-42-8	
Cadmium	<b>&lt;0.15</b>	ug/L	1.0	0.15	1	12/22/21 05:08	12/28/21 01:05	7440-43-9	
Calcium	<b>84200</b>	ug/L	254	76.2	1	12/22/21 05:08	12/28/21 01:05	7440-70-2	
Chromium	<b>&lt;1.0</b>	ug/L	3.4	1.0	1	12/22/21 05:08	12/28/21 01:05	7440-47-3	
Copper	<b>&lt;1.9</b>	ug/L	6.4	1.9	1	12/22/21 05:08	12/28/21 01:05	7440-50-8	
Iron	<b>287</b>	ug/L	250	58.0	1	12/22/21 05:08	12/28/21 01:05	7439-89-6	
Lead	<b>&lt;0.24</b>	ug/L	1.0	0.24	1	12/22/21 05:08	12/28/21 01:05	7439-92-1	
Magnesium	<b>22900</b>	ug/L	250	31.2	1	12/22/21 05:08	12/28/21 01:05	7439-95-4	
Manganese	<b>38.5</b>	ug/L	4.0	1.2	1	12/22/21 05:08	12/28/21 01:05	7439-96-5	
Nickel	<b>0.59J</b>	ug/L	1.0	0.28	1	12/22/21 05:08	12/28/21 01:05	7440-02-0	
Potassium	<b>1710</b>	ug/L	789	237	1	12/22/21 05:08	12/28/21 01:05	7440-09-7	
Selenium	<b>&lt;0.32</b>	ug/L	1.1	0.32	1	12/22/21 05:08	12/28/21 01:05	7782-49-2	
Silica	<b>9400</b>	ug/L	246	73.9	1	12/22/21 05:08	12/28/21 01:05	7631-86-9	
Sodium	<b>11700</b>	ug/L	250	42.0	1	12/22/21 05:08	12/28/21 01:05	7440-23-5	
Strontium	<b>107</b>	ug/L	1.6	0.48	1	12/22/21 05:08	12/28/21 01:05	7440-24-6	
Zinc	<b>&lt;10.3</b>	ug/L	34.4	10.3	1	12/22/21 05:08	12/28/21 01:05	7440-66-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 134707 MARSHALL MEGASITE

Sample Project No.: 40238530

**Sample: KM2R-20211217**      **Lab ID: 40238530001**      Collected: 12/17/21 11:20      Received: 12/18/21 10:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Semivolatile Org</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,2,4,5-Tetrachlorobenzene	<1.0	ug/L	5.2	1.0	1	12/21/21 10:52	12/27/21 16:04	95-94-3	
1,2-Diphenylhydrazine	<1.1	ug/L	5.2	1.1	1	12/21/21 10:52	12/27/21 16:04	122-66-7	
2,2'-Oxybis(1-chloropropane)	<1.3	ug/L	5.2	1.3	1	12/21/21 10:52	12/27/21 16:04	108-60-1	
2,4,5-Trichlorophenol	<1.5	ug/L	5.2	1.5	1	12/21/21 10:52	12/27/21 16:04	95-95-4	
2,4,6-Trichlorophenol	<0.83	ug/L	5.2	0.83	1	12/21/21 10:52	12/27/21 16:04	88-06-2	
2,4-Dichlorophenol	<0.93	ug/L	5.2	0.93	1	12/21/21 10:52	12/27/21 16:04	120-83-2	
2,4-Dimethylphenol	<1.2	ug/L	5.2	1.2	1	12/21/21 10:52	12/27/21 16:04	105-67-9	
2,4-Dinitrophenol	<2.6	ug/L	5.2	2.6	1	12/21/21 10:52	12/27/21 16:04	51-28-5	
2,4-Dinitrotoluene	<1.1	ug/L	5.2	1.1	1	12/21/21 10:52	12/27/21 16:04	121-14-2	
2,6-Dinitrotoluene	<0.81	ug/L	5.2	0.81	1	12/21/21 10:52	12/27/21 16:04	606-20-2	
2-Chloronaphthalene	<0.86	ug/L	5.2	0.86	1	12/21/21 10:52	12/27/21 16:04	91-58-7	
2-Chlorophenol	<0.86	ug/L	5.2	0.86	1	12/21/21 10:52	12/27/21 16:04	95-57-8	
2-Methylnaphthalene	<1.2	ug/L	5.2	1.2	1	12/21/21 10:52	12/27/21 16:04	91-57-6	
2-Methylphenol(o-Cresol)	<0.97	ug/L	5.2	0.97	1	12/21/21 10:52	12/27/21 16:04	95-48-7	
2-Nitroaniline	<0.99	ug/L	5.2	0.99	1	12/21/21 10:52	12/27/21 16:04	88-74-4	
2-Nitrophenol	<0.86	ug/L	5.2	0.86	1	12/21/21 10:52	12/27/21 16:04	88-75-5	
3&4-Methylphenol(m&p Cresol)	<0.64	ug/L	5.2	0.64	1	12/21/21 10:52	12/27/21 16:04		
3,3'-Dichlorobenzidine	<1.4	ug/L	5.2	1.4	1	12/21/21 10:52	12/27/21 16:04	91-94-1	
3-Nitroaniline	<1.4	ug/L	5.2	1.4	1	12/21/21 10:52	12/27/21 16:04	99-09-2	
4,6-Dinitro-2-methylphenol	<3.2	ug/L	5.2	3.2	1	12/21/21 10:52	12/27/21 16:04	534-52-1	
4-Bromophenylphenyl ether	<1.0	ug/L	5.2	1.0	1	12/21/21 10:52	12/27/21 16:04	101-55-3	
4-Chloro-3-methylphenol	<0.71	ug/L	5.2	0.71	1	12/21/21 10:52	12/27/21 16:04	59-50-7	
4-Chloroaniline	<1.9	ug/L	5.2	1.9	1	12/21/21 10:52	12/27/21 16:04	106-47-8	
4-Chlorophenylphenyl ether	<0.86	ug/L	5.2	0.86	1	12/21/21 10:52	12/27/21 16:04	7005-72-3	
4-Nitroaniline	<3.1	ug/L	5.2	3.1	1	12/21/21 10:52	12/27/21 16:04	100-01-6	
4-Nitrophenol	<3.2	ug/L	5.2	3.2	1	12/21/21 10:52	12/27/21 16:04	100-02-7	
Acenaphthene	<0.80	ug/L	5.2	0.80	1	12/21/21 10:52	12/27/21 16:04	83-32-9	
Acenaphthylene	<0.76	ug/L	5.2	0.76	1	12/21/21 10:52	12/27/21 16:04	208-96-8	
Acetophenone	<2.3	ug/L	5.2	2.3	1	12/21/21 10:52	12/27/21 16:04	98-86-2	
Aniline	<1.4	ug/L	5.2	1.4	1	12/21/21 10:52	12/27/21 16:04	62-53-3	
Anthracene	<0.84	ug/L	5.2	0.84	1	12/21/21 10:52	12/27/21 16:04	120-12-7	
Benzidine	<36.2	ug/L	52.1	36.2	1	12/21/21 10:52	12/27/21 16:04	92-87-5	
Benzo(a)anthracene	<0.88	ug/L	5.2	0.88	1	12/21/21 10:52	12/27/21 16:04	56-55-3	
Benzo(a)pyrene	<1.4	ug/L	5.2	1.4	1	12/21/21 10:52	12/27/21 16:04	50-32-8	
Benzo(b)fluoranthene	<1.3	ug/L	5.2	1.3	1	12/21/21 10:52	12/27/21 16:04	205-99-2	
Benzo(g,h,i)perylene	<4.5	ug/L	5.2	4.5	1	12/21/21 10:52	12/27/21 16:04	191-24-2	
Benzo(k)fluoranthene	<1.2	ug/L	5.2	1.2	1	12/21/21 10:52	12/27/21 16:04	207-08-9	
Benzoic acid	<17.2	ug/L	52.1	17.2	1	12/21/21 10:52	12/27/21 16:04	65-85-0	
Benzyl alcohol	<1.4	ug/L	5.2	1.4	1	12/21/21 10:52	12/27/21 16:04	100-51-6	
Butylbenzylphthalate	<1.4	ug/L	5.2	1.4	1	12/21/21 10:52	12/27/21 16:04	85-68-7	
Caprolactam	<3.9	ug/L	5.2	3.9	1	12/21/21 10:52	12/27/21 16:04	105-60-2	
Carbazole	<0.95	ug/L	5.2	0.95	1	12/21/21 10:52	12/27/21 16:04	86-74-8	
Chrysene	<1.3	ug/L	5.2	1.3	1	12/21/21 10:52	12/27/21 16:04	218-01-9	
Di-n-butylphthalate	<1.3	ug/L	5.2	1.3	1	12/21/21 10:52	12/27/21 16:04	84-74-2	
Di-n-octylphthalate	<4.0	ug/L	5.2	4.0	1	12/21/21 10:52	12/27/21 16:04	117-84-0	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

**Sample: KM2R-20211217**      **Lab ID: 40238530001**      Collected: 12/17/21 11:20      Received: 12/18/21 10:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV Semivolatile Org</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Dibenz(a,h)anthracene	<3.4	ug/L	5.2	3.4	1	12/21/21 10:52	12/27/21 16:04	53-70-3	
Dibenzofuran	<0.88	ug/L	5.2	0.88	1	12/21/21 10:52	12/27/21 16:04	132-64-9	
Diethylphthalate	<0.81	ug/L	5.2	0.81	1	12/21/21 10:52	12/27/21 16:04	84-66-2	
Dimethylphthalate	<0.75	ug/L	5.2	0.75	1	12/21/21 10:52	12/27/21 16:04	131-11-3	
Fluoranthene	<1.0	ug/L	5.2	1.0	1	12/21/21 10:52	12/27/21 16:04	206-44-0	
Fluorene	<0.94	ug/L	5.2	0.94	1	12/21/21 10:52	12/27/21 16:04	86-73-7	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.2	1.2	1	12/21/21 10:52	12/27/21 16:04	87-68-3	
Hexachlorobenzene	<0.76	ug/L	5.2	0.76	1	12/21/21 10:52	12/27/21 16:04	118-74-1	
Hexachlorocyclopentadiene	<1.1	ug/L	5.2	1.1	1	12/21/21 10:52	12/27/21 16:04	77-47-4	
Hexachloroethane	<1.5	ug/L	5.2	1.5	1	12/21/21 10:52	12/27/21 16:04	67-72-1	
Indeno(1,2,3-cd)pyrene	<4.0	ug/L	5.2	4.0	1	12/21/21 10:52	12/27/21 16:04	193-39-5	
Isophorone	<0.81	ug/L	5.2	0.81	1	12/21/21 10:52	12/27/21 16:04	78-59-1	
N-Nitroso-di-n-propylamine	<1.2	ug/L	5.2	1.2	1	12/21/21 10:52	12/27/21 16:04	621-64-7	
N-Nitrosodimethylamine	<2.9	ug/L	5.2	2.9	1	12/21/21 10:52	12/27/21 16:04	62-75-9	
N-Nitrosodiphenylamine	<0.69	ug/L	5.2	0.69	1	12/21/21 10:52	12/27/21 16:04	86-30-6	
Naphthalene	<1.3	ug/L	5.2	1.3	1	12/21/21 10:52	12/27/21 16:04	91-20-3	
Nitrobenzene	<1.1	ug/L	5.2	1.1	1	12/21/21 10:52	12/27/21 16:04	98-95-3	
Pentachlorophenol	<4.1	ug/L	5.2	4.1	1	12/21/21 10:52	12/27/21 16:04	87-86-5	
Phenanthrene	<0.42	ug/L	5.2	0.42	1	12/21/21 10:52	12/27/21 16:04	85-01-8	
Phenol	<0.33	ug/L	5.2	0.33	1	12/21/21 10:52	12/27/21 16:04	108-95-2	
Pyrene	<1.3	ug/L	5.2	1.3	1	12/21/21 10:52	12/27/21 16:04	129-00-0	
Pyridine	<1.6	ug/L	5.2	1.6	1	12/21/21 10:52	12/27/21 16:04	110-86-1	CH
bis(2-Chloroethoxy)methane	<1.4	ug/L	5.2	1.4	1	12/21/21 10:52	12/27/21 16:04	111-91-1	
bis(2-Chloroethyl) ether	<1.2	ug/L	5.2	1.2	1	12/21/21 10:52	12/27/21 16:04	111-44-4	
bis(2-Ethylhexyl)phthalate	<3.0	ug/L	5.2	3.0	1	12/21/21 10:52	12/27/21 16:04	117-81-7	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	84	%	41-118		1	12/21/21 10:52	12/27/21 16:04	4165-60-0	
2-Fluorobiphenyl (S)	82	%	54-107		1	12/21/21 10:52	12/27/21 16:04	321-60-8	
Terphenyl-d14 (S)	93	%	51-129		1	12/21/21 10:52	12/27/21 16:04	1718-51-0	
Phenol-d6 (S)	35	%	12-120		1	12/21/21 10:52	12/27/21 16:04	13127-88-3	
2-Fluorophenol (S)	57	%	23-69		1	12/21/21 10:52	12/27/21 16:04	367-12-4	
2,4,6-Tribromophenol (S)	97	%	62-172		1	12/21/21 10:52	12/27/21 16:04	118-79-6	
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		12/27/21 20:31	67-64-1	
Acrolein	<3.8	ug/L	5.0	3.8	1		12/27/21 20:31	107-02-8	
Acrylonitrile	<1.0	ug/L	5.0	1.0	1		12/27/21 20:31	107-13-1	
Benzene	<0.30	ug/L	1.0	0.30	1		12/28/21 10:12	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		12/27/21 20:31	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/27/21 20:31	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		12/27/21 20:31	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		12/27/21 20:31	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		12/27/21 20:31	74-83-9	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		12/27/21 20:31	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

Sample: **KM2R-20211217** Lab ID: **40238530001** Collected: 12/17/21 11:20 Received: 12/18/21 10:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		12/27/21 20:31	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		12/27/21 20:31	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		12/27/21 20:31	98-06-6	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		12/27/21 20:31	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		12/27/21 20:31	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		12/27/21 20:31	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		12/27/21 20:31	75-00-3	L1
2-Chloroethylvinyl ether	<2.5	ug/L	10.0	2.5	1		12/27/21 20:31	110-75-8	c2
Chloroform	<1.2	ug/L	5.0	1.2	1		12/27/21 20:31	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		12/27/21 20:31	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/21 20:31	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/21 20:31	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		12/27/21 20:31	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		12/27/21 20:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		12/27/21 20:31	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		12/27/21 20:31	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		12/27/21 20:31	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		12/27/21 20:31	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		12/27/21 20:31	106-46-7	
trans-1,4-Dichloro-2-butene	<1.3	ug/L	5.0	1.3	1		12/27/21 20:31	110-57-6	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		12/27/21 20:31	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/21 20:31	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		12/27/21 20:31	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		12/27/21 20:31	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		12/27/21 20:31	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		12/27/21 20:31	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		12/27/21 20:31	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		12/27/21 20:31	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		12/27/21 20:31	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		12/27/21 20:31	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		12/27/21 20:31	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		12/27/21 20:31	10061-02-6	
Diethyl ether (Ethyl ether)	<1.1	ug/L	5.0	1.1	1		12/27/21 20:31	60-29-7	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/27/21 20:31	100-41-4	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		12/27/21 20:31	591-78-6	
Iodomethane	<7.4	ug/L	20.0	7.4	1		12/27/21 20:31	74-88-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		12/27/21 20:31	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		12/27/21 20:31	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		12/27/21 20:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		12/27/21 20:31	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		12/27/21 20:31	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		12/27/21 20:31	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		12/27/21 20:31	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		12/27/21 20:31	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		12/27/21 20:31	630-20-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

**Sample: KM2R-20211217**      **Lab ID: 40238530001**      Collected: 12/17/21 11:20      Received: 12/18/21 10:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		12/27/21 20:31	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		12/27/21 20:31	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		12/27/21 20:31	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		12/27/21 20:31	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/27/21 20:31	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/21 20:31	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		12/27/21 20:31	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		12/27/21 20:31	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		12/27/21 20:31	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		12/27/21 20:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.38	ug/L	5.0	0.38	1		12/27/21 20:31	76-13-1	
1,2,3-Trimethylbenzene	<0.95	ug/L	5.0	0.95	1		12/27/21 20:31	526-73-8	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/27/21 20:31	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/27/21 20:31	108-67-8	
Vinyl acetate	<1.3	ug/L	5.0	1.3	1		12/27/21 20:31	108-05-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/27/21 20:31	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		12/27/21 20:31	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/27/21 20:31	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/27/21 20:31	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	97	%	70-130		1		12/27/21 20:31	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		12/27/21 20:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		12/27/21 20:31	2199-69-1	
<b>120.1 Specific Conductance</b>									
Analytical Method: EPA 120.1									
Pace Analytical Services - Green Bay									
Specific Conductance @ 25C	<b>606</b>	umhos/cm	6.0	1.8	1		12/23/21 16:30		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<b>243</b>	mg/L	10.0	5.0	1		12/21/21 20:33		
Alkalinity,Bicarbonate (CaCO3)	<b>243</b>	mg/L	10.0	5.0	1		12/21/21 20:33		
Alkalinity,Carbonate (CaCO3)	<5.0	mg/L	10.0	5.0	1		12/21/21 20:33		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	<b>342</b>	mg/L	20.0	8.7	1		12/21/21 02:50		
<b>2540D Total Suspended Solids</b>									
Analytical Method: SM 2540D									
Pace Analytical Services - Green Bay									
Total Suspended Solids	<b>3.0</b>	mg/L	2.0	0.95	1		12/22/21 10:16		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

**Sample: KM2R-20211217**      **Lab ID: 40238530001**      Collected: 12/17/21 11:20      Received: 12/18/21 10:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Chlorine, Residual, Total, Free</b>									
Analytical Method: SM 4500-Cl D Pace Analytical Services - Ormond Beach									
Chlorine, Total	<0.10	mg/L	0.10	0.10	1		12/30/21 14:45	7782-50-5	H6
<b>5540C MBAS Surfactants</b>									
Analytical Method: SM 5540C Pace Analytical Services - Indianapolis									
Surfactants	<2.0	mg/L	4.0	2.0	1		12/22/21 07:32		D3, H3, SU
<b>Total Nitrogen Calculation</b>									
Analytical Method: TKN+NO3+NO2 Calculation Pace Analytical Services - Green Bay									
Nitrogen	4.0	mg/L	1.0	0.21	1		12/27/21 14:35	7727-37-9	
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Bromide	<0.50	mg/L	1.7	0.50	5		12/30/21 12:40	24959-67-9	D3
Chloride	27.2	mg/L	10.0	2.2	5		12/30/21 12:40	16887-00-6	M0
Fluoride	<0.48	mg/L	1.6	0.48	5		12/30/21 12:40	16984-48-8	D3, M0
Sulfate	40.1	mg/L	10.0	2.2	5		12/30/21 12:40	14808-79-8	
<b>350.1 Ammonia, Distilled</b>									
Analytical Method: EPA 350.1 Preparation Method: EPA 350.1 Pace Analytical Services - Green Bay									
Nitrogen, Ammonia	<0.14	mg/L	0.50	0.14	1	12/20/21 22:52	12/20/21 23:25	7664-41-7	
<b>351.2 Total Kjeldahl Nitrogen</b>									
Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay									
Nitrogen, Kjeldahl, Total	<0.21	mg/L	1.0	0.21	1	12/22/21 20:40	12/23/21 01:18	7727-37-9	
<b>353.2 Nitrogen, Dissolved Pres</b>									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3, Dissolved	4.0	mg/L	0.25	0.059	1		12/27/21 12:48		
<b>365.4 Total Phosphorus</b>									
Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Green Bay									
Phosphorus	0.070J	mg/L	0.20	0.029	1	12/21/21 10:20	12/21/21 14:45	7723-14-0	
<b>410.4 COD</b>									
Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Green Bay									
Chemical Oxygen Demand	<14.7	mg/L	50.0	14.7	1	12/21/21 23:37	12/22/21 02:03		
<b>Total Organic Carbon</b>									
Analytical Method: EPA 9060 Pace Analytical Services - Green Bay									
Total Organic Carbon	5.0	mg/L	0.50	0.085	1		12/27/21 10:12	7440-44-0	
Total Organic Carbon	5.0	mg/L	0.50	0.085	1		12/27/21 10:12	7440-44-0	
Total Organic Carbon	5.1	mg/L	0.50	0.085	1		12/27/21 10:12	7440-44-0	

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### ANALYTICAL RESULTS

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

**Sample: KM2R-20211217**      **Lab ID: 40238530001**      Collected: 12/17/21 11:20      Received: 12/18/21 10:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Total Organic Carbon</b>									
Analytical Method: EPA 9060									
Pace Analytical Services - Green Bay									
Total Organic Carbon	5.1	mg/L	0.50	0.085	1		12/27/21 10:12	7440-44-0	
Mean Total Organic Carbon	5.1	mg/L	0.50	0.085	1		12/27/21 10:12	7440-44-0	

**Sample: KM2R-20211218**      **Lab ID: 40238530002**      Collected: 12/17/21 11:20      Received: 12/18/21 10:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		12/27/21 12:13	67-64-1	
Acrolein	<3.8	ug/L	5.0	3.8	1		12/27/21 12:13	107-02-8	
Acrylonitrile	<1.0	ug/L	5.0	1.0	1		12/27/21 12:13	107-13-1	
Benzene	<0.30	ug/L	1.0	0.30	1		12/27/21 12:13	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		12/27/21 12:13	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/27/21 12:13	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		12/27/21 12:13	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		12/27/21 12:13	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		12/27/21 12:13	74-83-9	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		12/27/21 12:13	78-93-3	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		12/27/21 12:13	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		12/27/21 12:13	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		12/27/21 12:13	98-06-6	
Carbon disulfide	<1.1	ug/L	5.0	1.1	1		12/27/21 12:13	75-15-0	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		12/27/21 12:13	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		12/27/21 12:13	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		12/27/21 12:13	75-00-3	L1
2-Chloroethylvinyl ether	<2.5	ug/L	10.0	2.5	1		12/27/21 12:13	110-75-8	c2
Chloroform	<1.2	ug/L	5.0	1.2	1		12/27/21 12:13	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		12/27/21 12:13	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/21 12:13	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/27/21 12:13	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		12/27/21 12:13	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		12/27/21 12:13	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		12/27/21 12:13	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		12/27/21 12:13	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		12/27/21 12:13	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		12/27/21 12:13	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		12/27/21 12:13	106-46-7	
trans-1,4-Dichloro-2-butene	<1.3	ug/L	5.0	1.3	1		12/27/21 12:13	110-57-6	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		12/27/21 12:13	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/21 12:13	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		12/27/21 12:13	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		12/27/21 12:13	75-35-4	

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### ANALYTICAL RESULTS

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

**Sample: KM2R-20211218**      **Lab ID: 40238530002**      Collected: 12/17/21 11:20      Received: 12/18/21 10:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		12/27/21 12:13	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		12/27/21 12:13	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		12/27/21 12:13	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		12/27/21 12:13	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		12/27/21 12:13	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		12/27/21 12:13	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		12/27/21 12:13	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		12/27/21 12:13	10061-02-6	
Diethyl ether (Ethyl ether)	<1.1	ug/L	5.0	1.1	1		12/27/21 12:13	60-29-7	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/27/21 12:13	100-41-4	
2-Hexanone	<6.3	ug/L	25.0	6.3	1		12/27/21 12:13	591-78-6	
Iodomethane	<7.4	ug/L	20.0	7.4	1		12/27/21 12:13	74-88-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		12/27/21 12:13	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		12/27/21 12:13	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		12/27/21 12:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		12/27/21 12:13	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		12/27/21 12:13	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		12/27/21 12:13	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		12/27/21 12:13	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		12/27/21 12:13	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		12/27/21 12:13	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		12/27/21 12:13	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		12/27/21 12:13	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		12/27/21 12:13	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		12/27/21 12:13	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/27/21 12:13	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		12/27/21 12:13	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		12/27/21 12:13	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		12/27/21 12:13	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		12/27/21 12:13	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		12/27/21 12:13	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.38	ug/L	5.0	0.38	1		12/27/21 12:13	76-13-1	
1,2,3-Trimethylbenzene	<0.95	ug/L	5.0	0.95	1		12/27/21 12:13	526-73-8	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/27/21 12:13	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/27/21 12:13	108-67-8	
Vinyl acetate	<1.3	ug/L	5.0	1.3	1		12/27/21 12:13	108-05-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/27/21 12:13	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		12/27/21 12:13	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/27/21 12:13	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/27/21 12:13	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	96	%	70-130		1		12/27/21 12:13	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		12/27/21 12:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		12/27/21 12:13	2199-69-1	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

QC Batch: 656105	Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A	Analysis Description: 1664 HEM, Oil and Grease
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 40238530001

METHOD BLANK: 3024725 Matrix: Water

Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Oil and Grease	mg/L	<0.81	5.0	0.81	12/22/21 15:17	

LABORATORY CONTROL SAMPLE: 3024726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	38.6	96	78-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3024727 3024728

Parameter	Units	3024727		3024728		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50305031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Oil and Grease	mg/L	22.5	39.2	39.2	60.4	62.1	97	101	78-114	3	18 1q

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

QC Batch: 655576	Analysis Method: SM 2130B-11
QC Batch Method: SM 2130B-11	Analysis Description: 2130B Turbidity
	Laboratory: Pace Analytical Services - Grand Rapids

Associated Lab Samples: 40238530001

METHOD BLANK: 3022323 Matrix: Water

Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Turbidity	NTU	<0.12	1.0	0.12	12/17/21 16:44	

LABORATORY CONTROL SAMPLE: 3022324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	20.3	19.5	96	95-105	

SAMPLE DUPLICATE: 3022325

Parameter	Units	40238530001 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	2.2	2.5	12	20	

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

QC Batch: 655568	Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B	Analysis Description: 4500H+BGR pH
	Laboratory: Pace Analytical Services - Grand Rapids

Associated Lab Samples: 40238530001

LABORATORY CONTROL SAMPLE: 3022263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	6	6.0	101	99-101	

SAMPLE DUPLICATE: 3022264

Parameter	Units	40238530001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.2	8.2	0	2	H3

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 655567	Analysis Method: SM 4500-NO3 F-11
QC Batch Method: SM 4500-NO3 F-11	Analysis Description: 4500NO3F Nitrate + Nitrite, Unpres.
	Laboratory: Pace Analytical Services - Grand Rapids

Associated Lab Samples: 40238530001

METHOD BLANK: 3022250 Matrix: Water

Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	<0.0090	0.050	0.0090	12/17/21 17:09	
Nitrogen, Nitrite	mg/L	<0.0090	0.010	0.0090	12/17/21 17:09	
Nitrogen, NO2 plus NO3	mg/L	<0.0090	0.050	0.0090	12/17/21 17:09	

LABORATORY CONTROL SAMPLE: 3022251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.25	0.25	98	77-120	
Nitrogen, Nitrite	mg/L	0.25	0.25	98	90-114	
Nitrogen, NO2 plus NO3	mg/L	0.5	0.49	98	90-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3022252 3022253

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50305492001 Result	Spike Conc.	Spike Conc.	Result								
Nitrogen, Nitrate	mg/L	1.9	0.5	0.5	2.6	2.6	148	146	28-196	0	10		
Nitrogen, Nitrite	mg/L	ND	0.25	0.25	0.24	0.25	97	99	77-119	2	10		
Nitrogen, NO2 plus NO3	mg/L	1.9	1	1	2.9	2.9	98	98	79-121	0	10 E		

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 655542	Analysis Method: SM 5210B-11
QC Batch Method: SM 5210B-11	Analysis Description: 5210B BOD, 5 day
	Laboratory: Pace Analytical Services - Grand Rapids

Associated Lab Samples: 40238530001

METHOD BLANK: 3022126 Matrix: Water  
Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
BOD, 5 day	mg/L	<1.0	2.0	1.0	12/22/21 17:05	

LABORATORY CONTROL SAMPLE: 3022128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	187	94	85-115	

SAMPLE DUPLICATE: 3022129

Parameter	Units	50305431001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	123	113	8	20	

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 404818      Analysis Method: EPA 200.8  
QC Batch Method: EPA 200.8      Analysis Description: 200.8 MET  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238530001

METHOD BLANK: 2336554      Matrix: Water  
Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	<58.7	250	58.7	12/28/21 00:36	
Arsenic	ug/L	<0.28	1.0	0.28	12/28/21 00:36	
Barium	ug/L	<0.70	2.3	0.70	12/28/21 00:36	
Boron	ug/L	<3.0	10.0	3.0	12/28/21 00:36	
Cadmium	ug/L	<0.15	1.0	0.15	12/28/21 00:36	
Calcium	ug/L	<76.2	254	76.2	12/28/21 00:36	
Chromium	ug/L	<1.0	3.4	1.0	12/28/21 00:36	
Copper	ug/L	<1.9	6.4	1.9	12/28/21 00:36	
Iron	ug/L	<58.0	250	58.0	12/28/21 00:36	
Lead	ug/L	<0.24	1.0	0.24	12/28/21 00:36	
Magnesium	ug/L	<31.2	250	31.2	12/28/21 00:36	
Manganese	ug/L	<1.2	4.0	1.2	12/28/21 00:36	
Nickel	ug/L	<0.28	1.0	0.28	12/28/21 00:36	
Potassium	ug/L	<237	789	237	12/28/21 00:36	
Selenium	ug/L	<0.32	1.1	0.32	12/28/21 00:36	
Silica	ug/L	93.8J	246	73.9	12/28/21 00:36	
Sodium	ug/L	<42.0	250	42.0	12/28/21 00:36	
Strontium	ug/L	<0.48	1.6	0.48	12/28/21 00:36	
Zinc	ug/L	<10.3	34.4	10.3	12/28/21 00:36	

LABORATORY CONTROL SAMPLE: 2336555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9970	100	85-115	
Arsenic	ug/L	250	253	101	85-115	
Barium	ug/L	250	246	98	85-115	
Boron	ug/L	250	245	98	85-115	
Cadmium	ug/L	250	258	103	85-115	
Calcium	ug/L	10000	9720	97	85-115	
Chromium	ug/L	250	246	99	85-115	
Copper	ug/L	250	251	100	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	250	253	101	85-115	
Magnesium	ug/L	10000	10300	103	85-115	
Manganese	ug/L	250	247	99	85-115	
Nickel	ug/L	250	250	100	85-115	
Potassium	ug/L	10000	10100	101	85-115	
Selenium	ug/L	250	261	105	85-115	
Silica	ug/L	21400	20900	98		

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

LABORATORY CONTROL SAMPLE: 2336555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sodium	ug/L	10000	10100	101	85-115	
Strontium	ug/L	250	241	97	85-115	
Zinc	ug/L	250	259	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336556 2336557

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40238530001 Result	Spike Conc.	Spike Conc.	Result								
Aluminum	ug/L	<58.7	10000	10000	9980	9630	99	96	75-125	4	20		
Arsenic	ug/L	0.89J	250	250	258	254	103	101	75-125	1	20		
Barium	ug/L	40.3	250	250	294	290	101	100	75-125	1	20		
Boron	ug/L	18.7	250	250	266	267	99	99	75-125	0	20		
Cadmium	ug/L	<0.15	250	250	260	257	104	103	75-125	1	20		
Calcium	ug/L	84200	10000	10000	95800	94400	115	102	75-125	1	20		
Chromium	ug/L	<1.0	250	250	254	249	102	99	75-125	2	20		
Copper	ug/L	<1.9	250	250	250	247	100	99	75-125	1	20		
Iron	ug/L	287	10000	10000	10600	10400	104	102	75-125	2	20		
Lead	ug/L	<0.24	250	250	266	263	107	105	75-125	1	20		
Magnesium	ug/L	22900	10000	10000	33300	32500	104	96	75-125	3	20		
Manganese	ug/L	38.5	250	250	295	289	103	100	75-125	2	20		
Nickel	ug/L	0.59J	250	250	251	247	100	99	75-125	2	20		
Potassium	ug/L	1710	10000	10000	12100	11800	104	101	75-125	2	20		
Selenium	ug/L	<0.32	250	250	259	253	103	101	75-125	2	20		
Silica	ug/L	9400	21400	21400	29600	28900	94	91		2			
Sodium	ug/L	11700	10000	10000	22000	21600	103	98	75-125	2	20		
Strontium	ug/L	107	250	250	362	356	102	99	75-125	2	20		
Zinc	ug/L	<10.3	250	250	260	257	103	102	75-125	1	20		

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 404775 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238530001, 40238530002

METHOD BLANK: 2336398 Matrix: Water

Associated Lab Samples: 40238530001, 40238530002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	0.36	12/27/21 08:34	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	0.30	12/27/21 08:34	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	0.38	12/27/21 08:34	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	0.34	12/27/21 08:34	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.38	5.0	0.38	12/27/21 08:34	
1,1-Dichloroethane	ug/L	<0.30	1.0	0.30	12/27/21 08:34	
1,1-Dichloroethene	ug/L	<0.58	1.0	0.58	12/27/21 08:34	
1,1-Dichloropropene	ug/L	<0.41	1.0	0.41	12/27/21 08:34	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	0.56	12/27/21 08:34	
1,2,3-Trimethylbenzene	ug/L	<0.95	5.0	0.95	12/27/21 08:34	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	0.95	12/27/21 08:34	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	0.45	12/27/21 08:34	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	2.4	12/27/21 08:34	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	0.31	12/27/21 08:34	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	0.33	12/27/21 08:34	
1,2-Dichloroethane	ug/L	<0.29	1.0	0.29	12/27/21 08:34	
1,2-Dichloropropane	ug/L	<0.45	1.0	0.45	12/27/21 08:34	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	0.36	12/27/21 08:34	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	0.35	12/27/21 08:34	
1,3-Dichloropropane	ug/L	<0.30	1.0	0.30	12/27/21 08:34	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	0.89	12/27/21 08:34	
2,2-Dichloropropane	ug/L	<4.2	5.0	4.2	12/27/21 08:34	
2-Butanone (MEK)	ug/L	<6.5	25.0	6.5	12/27/21 08:34	
2-Chloroethylvinyl ether	ug/L	<2.5	10.0	2.5	12/27/21 08:34	
2-Chlorotoluene	ug/L	<0.89	5.0	0.89	12/27/21 08:34	
2-Hexanone	ug/L	<6.3	25.0	6.3	12/27/21 08:34	
4-Chlorotoluene	ug/L	<0.89	5.0	0.89	12/27/21 08:34	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	6.0	12/27/21 08:34	
Acetone	ug/L	<8.6	25.0	8.6	12/27/21 08:34	
Acrolein	ug/L	<3.8	5.0	3.8	12/27/21 08:34	
Acrylonitrile	ug/L	<1.0	5.0	1.0	12/27/21 08:34	
Benzene	ug/L	<0.30	1.0	0.30	12/27/21 08:34	
Bromobenzene	ug/L	<0.36	1.0	0.36	12/27/21 08:34	
Bromochloromethane	ug/L	<0.36	5.0	0.36	12/27/21 08:34	
Bromodichloromethane	ug/L	<0.42	1.0	0.42	12/27/21 08:34	
Bromoform	ug/L	<3.8	5.0	3.8	12/27/21 08:34	
Bromomethane	ug/L	<1.2	5.0	1.2	12/27/21 08:34	
Carbon disulfide	ug/L	<1.1	5.0	1.1	12/27/21 08:34	
Carbon tetrachloride	ug/L	<0.37	1.0	0.37	12/27/21 08:34	
Chlorobenzene	ug/L	<0.86	1.0	0.86	12/27/21 08:34	

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

METHOD BLANK: 2336398 Matrix: Water  
Associated Lab Samples: 40238530001, 40238530002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloroethane	ug/L	<1.4	5.0	1.4	12/27/21 08:34	
Chloroform	ug/L	<1.2	5.0	1.2	12/27/21 08:34	
Chloromethane	ug/L	<1.6	5.0	1.6	12/27/21 08:34	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	0.47	12/27/21 08:34	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	0.36	12/27/21 08:34	
Dibromochloromethane	ug/L	<2.6	5.0	2.6	12/27/21 08:34	
Dibromomethane	ug/L	<0.99	5.0	0.99	12/27/21 08:34	
Dichlorodifluoromethane	ug/L	<0.46	5.0	0.46	12/27/21 08:34	
Diethyl ether (Ethyl ether)	ug/L	<1.1	5.0	1.1	12/27/21 08:34	
Ethylbenzene	ug/L	<0.33	1.0	0.33	12/27/21 08:34	
Iodomethane	ug/L	<7.4	20.0	7.4	12/27/21 08:34	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	1.0	12/27/21 08:34	
m&p-Xylene	ug/L	<0.70	2.0	0.70	12/27/21 08:34	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	1.1	12/27/21 08:34	
Methylene Chloride	ug/L	<0.32	5.0	0.32	12/27/21 08:34	
n-Butylbenzene	ug/L	<0.86	1.0	0.86	12/27/21 08:34	
n-Propylbenzene	ug/L	<0.35	1.0	0.35	12/27/21 08:34	
Naphthalene	ug/L	<1.1	5.0	1.1	12/27/21 08:34	
o-Xylene	ug/L	<0.35	1.0	0.35	12/27/21 08:34	
p-Isopropyltoluene	ug/L	<1.0	5.0	1.0	12/27/21 08:34	
sec-Butylbenzene	ug/L	<0.42	1.0	0.42	12/27/21 08:34	
Styrene	ug/L	<0.36	1.0	0.36	12/27/21 08:34	
tert-Butylbenzene	ug/L	<0.59	1.0	0.59	12/27/21 08:34	
Tetrachloroethene	ug/L	<0.41	1.0	0.41	12/27/21 08:34	
Tetrahydrofuran	ug/L	<2.4	25.0	2.4	12/27/21 08:34	
Toluene	ug/L	<0.29	1.0	0.29	12/27/21 08:34	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	0.53	12/27/21 08:34	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	3.5	12/27/21 08:34	
trans-1,4-Dichloro-2-butene	ug/L	<1.3	5.0	1.3	12/27/21 08:34	
Trichloroethene	ug/L	<0.32	1.0	0.32	12/27/21 08:34	
Trichlorofluoromethane	ug/L	<0.42	1.0	0.42	12/27/21 08:34	
Vinyl acetate	ug/L	<1.3	5.0	1.3	12/27/21 08:34	
Vinyl chloride	ug/L	<0.17	1.0	0.17	12/27/21 08:34	
Xylene (Total)	ug/L	<1.0	3.0	1.0	12/27/21 08:34	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130		12/27/21 08:34	
4-Bromofluorobenzene (S)	%	96	70-130		12/27/21 08:34	
Toluene-d8 (S)	%	96	70-130		12/27/21 08:34	

LABORATORY CONTROL SAMPLE: 2336399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.6	119	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.3	97	66-130	
1,1,2-Trichloroethane	ug/L	50	51.4	103	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

LABORATORY CONTROL SAMPLE: 2336399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2-Trichlorotrifluoroethane	ug/L	50	58.3	117	50-150	
1,1-Dichloroethane	ug/L	50	63.6	127	68-132	
1,1-Dichloroethene	ug/L	50	60.5	121	85-126	
1,2,4-Trichlorobenzene	ug/L	50	60.8	122	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	53.5	107	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	54.1	108	70-130	
1,2-Dichlorobenzene	ug/L	50	53.6	107	70-130	
1,2-Dichloroethane	ug/L	50	60.9	122	70-130	
1,2-Dichloropropane	ug/L	50	60.1	120	78-125	
1,3-Dichlorobenzene	ug/L	50	52.5	105	70-130	
1,4-Dichlorobenzene	ug/L	50	54.4	109	70-130	
Benzene	ug/L	50	55.6	111	70-132	
Bromodichloromethane	ug/L	50	59.5	119	70-130	
Bromoform	ug/L	50	51.8	104	65-130	
Bromomethane	ug/L	50	60.7	121	44-128	
Carbon disulfide	ug/L	50	59.8	120	60-140	
Carbon tetrachloride	ug/L	50	61.1	122	70-130	
Chlorobenzene	ug/L	50	56.1	112	70-130	
Chloroethane	ug/L	50	81.8	164	73-137	L1
Chloroform	ug/L	50	59.4	119	80-122	
Chloromethane	ug/L	50	48.0	96	27-148	
cis-1,2-Dichloroethene	ug/L	50	55.5	111	70-130	
cis-1,3-Dichloropropene	ug/L	50	58.7	117	70-130	
Dibromochloromethane	ug/L	50	52.3	105	70-130	
Dichlorodifluoromethane	ug/L	50	49.2	98	22-151	
Ethylbenzene	ug/L	50	55.8	112	80-123	
Isopropylbenzene (Cumene)	ug/L	50	57.4	115	70-130	
m&p-Xylene	ug/L	100	112	112	70-130	
Methyl-tert-butyl ether	ug/L	50	55.0	110	66-130	
Methylene Chloride	ug/L	50	65.1	130	70-130	
o-Xylene	ug/L	50	53.6	107	70-130	
Styrene	ug/L	50	62.5	125	70-130	
Tetrachloroethene	ug/L	50	56.6	113	70-130	
Toluene	ug/L	50	53.3	107	80-121	
trans-1,2-Dichloroethene	ug/L	50	58.5	117	70-130	
trans-1,3-Dichloropropene	ug/L	50	61.0	122	58-125	
Trichloroethene	ug/L	50	59.9	120	70-130	
Trichlorofluoromethane	ug/L	50	65.4	131	84-148	
Vinyl chloride	ug/L	50	60.6	121	63-142	
Xylene (Total)	ug/L	150	166	110	70-130	
1,2-Dichlorobenzene-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			97	70-130	

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 404729      Analysis Method: EPA 8270E  
QC Batch Method: EPA 3510      Analysis Description: 8270E Water MSSV  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238530001

METHOD BLANK: 2336187      Matrix: Water  
Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	<1.0	5.0	1.0	12/23/21 12:19	
1,2-Diphenylhydrazine	ug/L	<1.1	5.0	1.1	12/23/21 12:19	
2,2'-Oxybis(1-chloropropane)	ug/L	<1.2	5.0	1.2	12/23/21 12:19	
2,4,5-Trichlorophenol	ug/L	<1.4	5.0	1.4	12/23/21 12:19	
2,4,6-Trichlorophenol	ug/L	<0.80	5.0	0.80	12/23/21 12:19	
2,4-Dichlorophenol	ug/L	<0.90	5.0	0.90	12/23/21 12:19	
2,4-Dimethylphenol	ug/L	<1.2	5.0	1.2	12/23/21 12:19	
2,4-Dinitrophenol	ug/L	<2.5	5.0	2.5	12/23/21 12:19	
2,4-Dinitrotoluene	ug/L	<1.1	5.0	1.1	12/23/21 12:19	
2,6-Dinitrotoluene	ug/L	<0.77	5.0	0.77	12/23/21 12:19	
2-Chloronaphthalene	ug/L	<0.83	5.0	0.83	12/23/21 12:19	
2-Chlorophenol	ug/L	<0.83	5.0	0.83	12/23/21 12:19	
2-Methylnaphthalene	ug/L	<1.2	5.0	1.2	12/23/21 12:19	
2-Methylphenol(o-Cresol)	ug/L	<0.93	5.0	0.93	12/23/21 12:19	
2-Nitroaniline	ug/L	<0.95	5.0	0.95	12/23/21 12:19	
2-Nitrophenol	ug/L	<0.83	5.0	0.83	12/23/21 12:19	
3&4-Methylphenol(m&p Cresol)	ug/L	<0.61	5.0	0.61	12/23/21 12:19	
3,3'-Dichlorobenzidine	ug/L	<1.3	5.0	1.3	12/23/21 12:19	
3-Nitroaniline	ug/L	<1.4	5.0	1.4	12/23/21 12:19	
4,6-Dinitro-2-methylphenol	ug/L	<3.1	5.0	3.1	12/23/21 12:19	
4-Bromophenylphenyl ether	ug/L	<0.96	5.0	0.96	12/23/21 12:19	
4-Chloro-3-methylphenol	ug/L	<0.68	5.0	0.68	12/23/21 12:19	
4-Chloroaniline	ug/L	<1.8	5.0	1.8	12/23/21 12:19	
4-Chlorophenylphenyl ether	ug/L	<0.83	5.0	0.83	12/23/21 12:19	
4-Nitroaniline	ug/L	<3.0	5.0	3.0	12/23/21 12:19	
4-Nitrophenol	ug/L	<3.1	5.0	3.1	12/23/21 12:19	
Acenaphthene	ug/L	<0.76	5.0	0.76	12/23/21 12:19	
Acenaphthylene	ug/L	<0.73	5.0	0.73	12/23/21 12:19	
Acetophenone	ug/L	<2.2	5.0	2.2	12/23/21 12:19	
Aniline	ug/L	<1.3	5.0	1.3	12/23/21 12:19	
Anthracene	ug/L	<0.81	5.0	0.81	12/23/21 12:19	
Benzidine	ug/L	<34.7	50.0	34.7	12/23/21 12:19	
Benzo(a)anthracene	ug/L	<0.85	5.0	0.85	12/23/21 12:19	
Benzo(a)pyrene	ug/L	<1.3	5.0	1.3	12/23/21 12:19	
Benzo(b)fluoranthene	ug/L	<1.3	5.0	1.3	12/23/21 12:19	
Benzo(g,h,i)perylene	ug/L	<4.3	5.0	4.3	12/23/21 12:19	
Benzo(k)fluoranthene	ug/L	<1.1	5.0	1.1	12/23/21 12:19	
Benzoic acid	ug/L	<16.5	50.0	16.5	12/23/21 12:19	
Benzyl alcohol	ug/L	<1.3	5.0	1.3	12/23/21 12:19	
bis(2-Chloroethoxy)methane	ug/L	<1.3	5.0	1.3	12/23/21 12:19	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

METHOD BLANK: 2336187 Matrix: Water  
Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/L	<1.2	5.0	1.2	12/23/21 12:19	
bis(2-Ethylhexyl)phthalate	ug/L	<2.9	5.0	2.9	12/23/21 12:19	
Butylbenzylphthalate	ug/L	<1.3	5.0	1.3	12/23/21 12:19	
Caprolactam	ug/L	<3.7	5.0	3.7	12/23/21 12:19	
Carbazole	ug/L	<0.91	5.0	0.91	12/23/21 12:19	
Chrysene	ug/L	<1.3	5.0	1.3	12/23/21 12:19	
Di-n-butylphthalate	ug/L	<1.2	5.0	1.2	12/23/21 12:19	
Di-n-octylphthalate	ug/L	<3.8	5.0	3.8	12/23/21 12:19	
Dibenz(a,h)anthracene	ug/L	<3.3	5.0	3.3	12/23/21 12:19	
Dibenzofuran	ug/L	<0.85	5.0	0.85	12/23/21 12:19	
Diethylphthalate	ug/L	<0.78	5.0	0.78	12/23/21 12:19	
Dimethylphthalate	ug/L	<0.72	5.0	0.72	12/23/21 12:19	
Fluoranthene	ug/L	<0.99	5.0	0.99	12/23/21 12:19	
Fluorene	ug/L	<0.91	5.0	0.91	12/23/21 12:19	
Hexachloro-1,3-butadiene	ug/L	<1.1	5.0	1.1	12/23/21 12:19	
Hexachlorobenzene	ug/L	<0.73	5.0	0.73	12/23/21 12:19	
Hexachlorocyclopentadiene	ug/L	<1.0	5.0	1.0	12/23/21 12:19	
Hexachloroethane	ug/L	<1.4	5.0	1.4	12/23/21 12:19	
Indeno(1,2,3-cd)pyrene	ug/L	<3.9	5.0	3.9	12/23/21 12:19	
Isophorone	ug/L	<0.77	5.0	0.77	12/23/21 12:19	
N-Nitroso-di-n-propylamine	ug/L	<1.1	5.0	1.1	12/23/21 12:19	
N-Nitrosodimethylamine	ug/L	<2.8	5.0	2.8	12/23/21 12:19	
N-Nitrosodiphenylamine	ug/L	<0.67	5.0	0.67	12/23/21 12:19	
Naphthalene	ug/L	<1.2	5.0	1.2	12/23/21 12:19	
Nitrobenzene	ug/L	<1.1	5.0	1.1	12/23/21 12:19	
Pentachlorophenol	ug/L	<3.9	5.0	3.9	12/23/21 12:19	
Phenanthrene	ug/L	<0.40	5.0	0.40	12/23/21 12:19	
Phenol	ug/L	<0.32	5.0	0.32	12/23/21 12:19	
Pyrene	ug/L	<1.2	5.0	1.2	12/23/21 12:19	
Pyridine	ug/L	<1.5	5.0	1.5	12/23/21 12:19	
2,4,6-Tribromophenol (S)	%	96	62-172		12/23/21 12:19	
2-Fluorobiphenyl (S)	%	91	54-107		12/23/21 12:19	
2-Fluorophenol (S)	%	59	23-69		12/23/21 12:19	
Nitrobenzene-d5 (S)	%	92	41-118		12/23/21 12:19	
Phenol-d6 (S)	%	33	12-120		12/23/21 12:19	
Terphenyl-d14 (S)	%	104	51-129		12/23/21 12:19	

LABORATORY CONTROL SAMPLE & LCSD: 2336188

Parameter	Units	Spike Conc.	2336189		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
			LCS Result	LCSD Result						
1,2-Diphenylhydrazine	ug/L	50	47.8	50.6	96	101	70-130	6	20	
2,2'-Oxybis(1-chloropropane)	ug/L	50	45.7	45.3	91	91	56-116	1	20	
2,4,5-Trichlorophenol	ug/L	50	50.0	50.5	100	101	60-122	1	28	
2,4,6-Trichlorophenol	ug/L	50	48.0	52.2	96	104	59-119	8	29	

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

LABORATORY CONTROL SAMPLE & LCSD: 2336188		2336189								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,4-Dichlorophenol	ug/L	50	47.0	49.8	94	100	50-120	6	33	
2,4-Dimethylphenol	ug/L	50	35.5	39.1	71	78	36-103	10	35	
2,4-Dinitrophenol	ug/L	50	45.7	48.9	91	98	34-120	7	35	
2,4-Dinitrotoluene	ug/L	50	49.0	52.4	98	105	70-130	7	20	
2,6-Dinitrotoluene	ug/L	50	48.0	49.1	96	98	70-134	2	20	
2-Chloronaphthalene	ug/L	50	47.1	48.7	94	97	70-126	3	20	
2-Chlorophenol	ug/L	50	45.3	45.7	91	91	50-130	1	31	
2-Methylnaphthalene	ug/L	50	47.2	49.7	94	99	70-130	5	20	
2-Methylphenol(o-Cresol)	ug/L	50	42.0	43.1	84	86	47-130	2	31	
2-Nitroaniline	ug/L	50	46.0	48.3	92	97	70-130	5	20	
2-Nitrophenol	ug/L	50	46.9	49.4	94	99	57-128	5	31	
3&4-Methylphenol(m&p Cresol)	ug/L	50	37.2	37.2	74	74	43-130	0	28	
3,3'-Dichlorobenzidine	ug/L	50	33.9	37.5	68	75	36-132	10	21	
3-Nitroaniline	ug/L	50	36.5	41.6	73	83	65-130	13	21	
4,6-Dinitro-2-methylphenol	ug/L	50	44.4	43.2	89	86	47-127	3	26	
4-Bromophenylphenyl ether	ug/L	50	48.9	50.9	98	102	70-130	4	20	
4-Chloro-3-methylphenol	ug/L	50	48.0	50.8	96	102	51-122	6	37	
4-Chloroaniline	ug/L	50	34.0	36.9	68	74	54-130	8	26	
4-Chlorophenylphenyl ether	ug/L	50	49.6	51.5	99	103	70-130	4	20	
4-Nitroaniline	ug/L	50	47.2	47.6	94	95	70-130	1	21	
4-Nitrophenol	ug/L	50	22.1	24.2	44	48	11-130	9	33	
Acenaphthene	ug/L	50	48.4	50.3	97	101	80-120	4	20	
Acenaphthylene	ug/L	50	49.5	50.9	99	102	70-130	3	20	
Aniline	ug/L	50	40.9	40.2	82	80	28-116	2	20	
Anthracene	ug/L	50	51.0	53.2	102	106	70-130	4	20	
Benzo(a)anthracene	ug/L	50	48.5	48.8	97	98	70-130	1	20	
Benzo(a)pyrene	ug/L	50	50.4	52.4	101	105	73-123	4	20	
Benzo(b)fluoranthene	ug/L	50	50.7	53.3	101	107	70-130	5	20	
Benzo(g,h,i)perylene	ug/L	50	43.2	44.0	86	88	69-130	2	20	
Benzo(k)fluoranthene	ug/L	50	51.8	51.8	104	104	70-130	0	20	
Benzoic acid	ug/L	50	<16.5	<16.5	28	32	10-130		50	
Benzyl alcohol	ug/L	50	42.4	42.6	85	85	59-130	0	24	
bis(2-Chloroethoxy)methane	ug/L	50	48.3	50.8	97	102	70-130	5	20	
bis(2-Chloroethyl) ether	ug/L	50	46.4	46.6	93	93	70-130	1	20	
bis(2-Ethylhexyl)phthalate	ug/L	50	46.8	46.4	94	93	70-136	1	20	
Butylbenzylphthalate	ug/L	50	46.9	48.1	94	96	75-143	2	20	
Carbazole	ug/L	50	51.9	52.6	104	105	70-130	1	20	
Chrysene	ug/L	50	51.0	53.1	102	106	70-135	4	20	
Di-n-butylphthalate	ug/L	50	49.3	50.4	99	101	70-130	2	20	
Di-n-octylphthalate	ug/L	50	46.5	46.5	93	93	64-139	0	20	
Dibenz(a,h)anthracene	ug/L	50	45.3	46.7	91	93	48-141	3	20	
Dibenzofuran	ug/L	50	48.3	51.3	97	103	70-130	6	20	
Diethylphthalate	ug/L	50	49.6	50.8	99	102	70-130	3	20	
Dimethylphthalate	ug/L	50	48.8	52.1	98	104	70-130	7	20	
Fluoranthene	ug/L	50	49.9	50.1	100	100	83-134	0	20	
Fluorene	ug/L	50	49.5	53.8	99	108	70-130	8	20	
Hexachloro-1,3-butadiene	ug/L	50	36.2	37.4	72	75	51-103	3	20	

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

Parameter	Units	2336188		2336189		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCS % Rec				
Hexachlorobenzene	ug/L	50	53.3	54.6	107	109	70-130	2	20
Hexachlorocyclopentadiene	ug/L	50	23.7	24.1	47	48	21-130	2	24
Hexachloroethane	ug/L	50	32.3	27.0	65	54	35-102	18	22
Indeno(1,2,3-cd)pyrene	ug/L	50	41.9	42.1	84	84	63-127	1	20
Isophorone	ug/L	50	51.5	53.7	103	107	70-130	4	20
N-Nitroso-di-n-propylamine	ug/L	50	47.3	47.3	95	95	70-130	0	20
N-Nitrosodimethylamine	ug/L	50	36.9	36.3	74	73	37-130	2	20
N-Nitrosodiphenylamine	ug/L	50	49.3	50.9	99	102	77-119	3	20
Naphthalene	ug/L	50	44.0	47.6	88	95	70-130	8	20
Nitrobenzene	ug/L	50	46.1	48.1	92	96	70-130	4	20
Pentachlorophenol	ug/L	50	44.7	46.6	89	93	53-101	4	24
Phenanthrene	ug/L	50	50.0	52.1	100	104	70-130	4	20
Phenol	ug/L	50	19.8	20.6	40	41	28-120	4	23
Pyrene	ug/L	50	50.5	53.2	101	106	70-130	5	20
Pyridine	ug/L	50	39.4	38.5	79	77	10-130	2	50
2,4,6-Tribromophenol (S)	%				91	95	62-172		
2-Fluorobiphenyl (S)	%				91	96	54-107		
2-Fluorophenol (S)	%				60	60	23-69		
Nitrobenzene-d5 (S)	%				89	93	41-118		
Phenol-d6 (S)	%				34	35	12-120		
Terphenyl-d14 (S)	%				94	99	51-129		

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

QC Batch: 404980	Analysis Method: EPA 120.1
QC Batch Method: EPA 120.1	Analysis Description: 120.1 Specific Conductance
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238530001

METHOD BLANK: 2337594 Matrix: Water

Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Specific Conductance @ 25C	umhos/cm	<1.8	6.0	1.8	12/23/21 16:25	

LABORATORY CONTROL SAMPLE: 2337595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance @ 25C	umhos/cm	635	641	101	90-110	

SAMPLE DUPLICATE: 2337596

Parameter	Units	40238507002 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance @ 25C	umhos/cm	1080	1070	1	10	

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 404804	Analysis Method: SM 2320B
QC Batch Method: SM 2320B	Analysis Description: 2320B Alkalinity
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238530001

METHOD BLANK: 2336518 Matrix: Water

Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<5.0	10.0	5.0	12/21/21 20:14	

LABORATORY CONTROL SAMPLE: 2336519

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	200	211	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336520 2336521

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result	% Rec	Result	% Rec	Result				
Alkalinity, Total as CaCO3	mg/L	200	55.7	200	200	267	266	106	105	80-120	0	20	

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 404662	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238530001

METHOD BLANK: 2335931 Matrix: Water  
Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	8.7	12/21/21 02:46	

LABORATORY CONTROL SAMPLE: 2335932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	597	556	93	80-120	

SAMPLE DUPLICATE: 2335933

Parameter	Units	35684281001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	322	318	1	10	

SAMPLE DUPLICATE: 2335934

Parameter	Units	40238458001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	486	472	3	10	

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 404860      Analysis Method: SM 2540D  
QC Batch Method: SM 2540D      Analysis Description: 2540D Total Suspended Solids  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40238530001

METHOD BLANK: 2336672      Matrix: Water  
Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	0.48	12/22/21 10:15	

LABORATORY CONTROL SAMPLE: 2336673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	98.0	98	80-120	

SAMPLE DUPLICATE: 2336674

Parameter	Units	40238675001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	41.9	41.1	2	10	

SAMPLE DUPLICATE: 2336675

Parameter	Units	40238677001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	19.6	21.6	10	10	

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

QC Batch: 789145

Analysis Method: SM 4500-Cl D

QC Batch Method: SM 4500-Cl D

Analysis Description: 4500CLD Chlorine, Total, Free, Residual

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 40238530001

METHOD BLANK: 4328407

Matrix: Water

Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chlorine, Total	mg/L	<0.10	0.10	0.10	12/30/21 14:45	H6

LABORATORY CONTROL SAMPLE & LCSD: 4328408

4328409

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chlorine, Total	mg/L	0.49	0.51	0.50	103	101	90-110	2	20	H6

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 656048	Analysis Method: SM 5540C
QC Batch Method: SM 5540C	Analysis Description: 5540C MBAS Surfactants
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 40238530001

METHOD BLANK: 3024204 Matrix: Water  
Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Surfactants	mg/L	<0.10	0.20	0.10	12/22/21 07:32	SU

LABORATORY CONTROL SAMPLE: 3024205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Surfactants	mg/L	1	1.0	101	90-110	SU

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3024206 3024207

Parameter	Units	3024206		3024207		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50305725005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Surfactants	mg/L	ND	100	100	96.2	96.6	95	95	90-110	0	20	SU

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 405294	Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238530001

METHOD BLANK: 2339032 Matrix: Water

Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Bromide	mg/L	<0.099	0.33	0.099	12/30/21 12:11	
Chloride	mg/L	<0.43	2.0	0.43	12/30/21 12:11	
Fluoride	mg/L	<0.095	0.32	0.095	12/30/21 12:11	
Sulfate	mg/L	<0.44	2.0	0.44	12/30/21 12:11	

LABORATORY CONTROL SAMPLE: 2339033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	2	2.1	105	90-110	
Chloride	mg/L	20	20.9	105	90-110	
Fluoride	mg/L	2	2.1	105	90-110	
Sulfate	mg/L	20	20.9	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339034 2339035

Parameter	Units	40238530001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Bromide	mg/L	<0.50	10	11.0	10	10.3	110	103	90-110	6	15	
Chloride	mg/L	27.2	100	139	100	130	111	103	90-110	6	15	M0
Fluoride	mg/L	<0.48	10	11.2	10	10.4	112	104	90-110	8	15	M0
Sulfate	mg/L	40.1	100	150	100	140	110	100	90-110	7	15	

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 404654 Analysis Method: EPA 350.1  
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40238530001

METHOD BLANK: 2335913 Matrix: Water  
Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.14	0.50	0.14	12/20/21 23:22	

LABORATORY CONTROL SAMPLE: 2335914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2335915 2335916

Parameter	Units	2335915		2335916		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40238282001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, Ammonia	mg/L	<0.14	10	10	10.2	10.1	101	101	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2335917 2335918

Parameter	Units	2335917		2335918		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40238314001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, Ammonia	mg/L	<0.14	10	10	9.9	9.9	99	99	90-110	1	20	

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 404924      Analysis Method: EPA 351.2  
QC Batch Method: EPA 351.2      Analysis Description: 351.2 TKN  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238530001

METHOD BLANK: 2337288      Matrix: Water  
Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.21	1.0	0.21	12/23/21 01:16	

LABORATORY CONTROL SAMPLE: 2337289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	5.2	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337290      2337291

Parameter	Units	40238342001		2337291		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Nitrogen, Kjeldahl, Total	mg/L	<0.21	5	5	4.5	4.6	91	91	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337292      2337293

Parameter	Units	40238402001		2337293		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Nitrogen, Kjeldahl, Total	mg/L	0.62J	5	5	5.2	5.4	91	96	90-110	5	20	

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 405054      Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2      Analysis Description: 353.2 Nitrogen, Dissolved, preserved  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238530001

METHOD BLANK: 2337830      Matrix: Water  
Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3, Dissolved	mg/L	<0.059	0.25	0.059	12/27/21 12:47	

LABORATORY CONTROL SAMPLE: 2337831

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3, Dissolved	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337832      2337833

Parameter	Units	40238530001		2337832		2337833		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, NO2 plus NO3, Dissolved	mg/L	4.0	4.0	2.5	2.5	6.4	6.5	96	99	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337834      2337835

Parameter	Units	40238468012		2337834		2337835		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, NO2 plus NO3, Dissolved	mg/L	<0.059	<0.059	2.5	2.5	2.3	2.3	93	92	90-110	1	20	

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### QUALITY CONTROL DATA

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 404698      Analysis Method: EPA 365.4  
QC Batch Method: EPA 365.4      Analysis Description: 365.4 Phosphorus  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40238530001

METHOD BLANK: 2336074      Matrix: Water  
Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus	mg/L	<0.029	0.20	0.029	12/21/21 14:12	

LABORATORY CONTROL SAMPLE: 2336075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	5	5.3	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336076      2336077

Parameter	Units	40238141001		2336077		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Phosphorus	mg/L	0.12J	5	5	5.4	5.4	106	105	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336078      2336079

Parameter	Units	40238183004		2336079		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Phosphorus	mg/L	0.064J	5	5	5.4	5.3	106	105	90-110	1	20

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**QUALITY CONTROL DATA**

Project: 134707 MARSHALL MEGASITE  
Pace Project No.: 40238530

QC Batch: 404813      Analysis Method: EPA 410.4  
QC Batch Method: EPA 410.4      Analysis Description: 410.4 COD  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40238530001

METHOD BLANK: 2336538      Matrix: Water  
Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<14.7	50.0	14.7	12/22/21 02:00	

LABORATORY CONTROL SAMPLE: 2336539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	520	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336540      2336541

Parameter	Units	40238286001		2336541		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chemical Oxygen Demand	mg/L	22.7J	526	526	566	559	103	102	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336542      2336543

Parameter	Units	40238183004		2336543		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chemical Oxygen Demand	mg/L	15.7J	526	526	573	566	106	105	90-110	1	10

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**QUALITY CONTROL DATA**

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

QC Batch: 404997

Analysis Method: EPA 9060

QC Batch Method: EPA 9060

Analysis Description: 9060 TOC

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238530001

METHOD BLANK: 2337664

Matrix: Water

Associated Lab Samples: 40238530001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<0.085	0.50	0.085	12/27/21 09:28	
Total Organic Carbon	mg/L	<0.085	0.50	0.085	12/27/21 09:28	
Total Organic Carbon	mg/L	<0.085	0.50	0.085	12/27/21 09:28	
Total Organic Carbon	mg/L	<0.085	0.50	0.085	12/27/21 09:28	
Total Organic Carbon	mg/L	<0.085	0.50	0.085	12/27/21 09:28	

LABORATORY CONTROL SAMPLE: 2337665

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	12.5	13.3	106	80-120	
Total Organic Carbon	mg/L	12.5	13.2	106		
Total Organic Carbon	mg/L	12.5	13.3	106		
Total Organic Carbon	mg/L	12.5	13.2	106		
Total Organic Carbon	mg/L	12.5	13.3	106		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337666 2337667

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		40238530001	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mean Total Organic Carbon	mg/L	5.1	6	6	11.3	11.1	103	101	80-120	1	20		
Total Organic Carbon	mg/L	5.0	6	6	11.2	11.1	102	100		1			
Total Organic Carbon	mg/L	5.1	6	6	11.4	11.1	104	100		2			
Total Organic Carbon	mg/L	5.0	6	6	11.3	11.2	105	104		1			
Total Organic Carbon	mg/L	5.1	6	6	11.2	11.1	102	101		0			

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## QUALIFIERS

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

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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 adjusted reporting limit.

TNTC - Too Numerous To Count

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: 404795

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

### ANALYTE QUALIFIERS

1q Sample pH adjusted to <2 with Hydrochloric Acid.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

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

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

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

SU MBAS, calculated as LAS, Mol wt 342.2 g/mol

c2 Acid preservation may not be appropriate for the analysis of 2-Chloroethylvinyl ether.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 134707 MARSHALL MEGASITE

Pace Project No.: 40238530

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238530001	KM2R-20211217	EPA 1664A	656105		
40238530001	KM2R-20211217	SM 2130B-11	655576		
40238530001	KM2R-20211217	SM 4500-H+B	655568		
40238530001	KM2R-20211217	SM 4500-NO3 F-11	655567		
40238530001	KM2R-20211217	SM 5210B-11	655542	SM 5210B-11	656286
40238530001	KM2R-20211217	EPA 200.8	404818	EPA 200.8	404905
40238530001	KM2R-20211217	EPA 3510	404729	EPA 8270E	404795
40238530001	KM2R-20211217	EPA 8260	404775		
40238530002	KM2R-20211218	EPA 8260	404775		
40238530001	KM2R-20211217	EPA 120.1	404980		
40238530001	KM2R-20211217	SM 2320B	404804		
40238530001	KM2R-20211217	SM 2540C	404662		
40238530001	KM2R-20211217	SM 2540D	404860		
40238530001	KM2R-20211217	SM 4500-CI D	789145		
40238530001	KM2R-20211217	SM 5540C	656048		
40238530001	KM2R-20211217	TKN+NO3+NO2 Calculation	405080		
40238530001	KM2R-20211217	EPA 300.0	405294		
40238530001	KM2R-20211217	EPA 350.1	404654	EPA 350.1	404659
40238530001	KM2R-20211217	EPA 351.2	404924	EPA 351.2	404929
40238530001	KM2R-20211217	EPA 353.2	405054		
40238530001	KM2R-20211217	EPA 365.4	404698	EPA 365.4	404738
40238530001	KM2R-20211217	EPA 410.4	404813	EPA 410.4	404816
40238530001	KM2R-20211217	EPA 9060	404997		

### REPORT OF LABORATORY ANALYSIS

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Burns & McDonnell Engineering 1431 Opus Place Downers Grove, Illinois 60515 Phone: (630) 724-3200 Fax: (630) 724-3201 Attention: <b>SINIS PANAGIOTOPoulos</b> <i>Sinisi Panagiotopoulos @ burnsmd.com</i>	Laboratory: <b>PACE ANALYTICAL SERVICES LLC</b>	Document Control No.: <b>13A707-2021-002</b>
	Address: <b>12A1 BELLEVUE STREET</b>	Lab. Reference No. or Episode No.:
	City/State/ZIP: <b>GREEN BAY, WI 54302</b>	
	Telephone: <b>920-469-2436</b>	

Project Number: <b>134707</b>		Sample Type			Number of Containers	Parameter/Method Code					Remarks								
Site Name: <b>MARSHALL MEGASITE</b>				Matrix			Liquid	Solid	Gas										
Group or SWMU Name	Sample Point	Sample Designator	Sample Event	Sample Depth (in feet)		Sample Collected													
			Round	Year	From	To	Date	Time											
<b>KMZR-20211217</b>							<b>12/17/21</b>	<b>1120</b>	<input checked="" type="checkbox"/>			<b>17</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>NOT FIELD FILTERED 001</b>
<b>TB-121721</b>									<input checked="" type="checkbox"/>			<b>2</b>	<input checked="" type="checkbox"/>						<b>002</b>
<i>LABORATORY PREPARED</i>																			
<i>12/17/21</i>																			

Sampler (signature): <i>[Signature]</i>		Sampler (signature): <i>[Signature]</i>		Custody Seal Number	<b>5-DAY TAT</b>	Special Instructions: <b>*ANALYSIS PER QUOTE 00100135*</b>	
Relinquished By (signature): <i>[Signature]</i>		Date/Time: <b>12/17/21 1350</b>	Received By (signature): <i>[Signature]</i>		Date/Time: <b>12-17-21 1350</b>	Ice Present in Container: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Relinquished By (signature): <b>Fedex</b>		Date/Time: <b>12/18/21</b>	Received By (signature): <i>[Signature]</i>		Date/Time: <b>12/18/21 1015</b>	Temperature Upon Receipt: <b>4.1</b>	
Laboratory Comments:							

Client Name: Burns & McDonnell Project # 40238530

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

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

Lab Lot# of pH paper: 1000104


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

Initial when completed: MP Date/ Time:

Pace Lab #	Glass							Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)																													
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T								ZPLC	GN																											
001	3		1	1				1	1	1	2					3																			2.5 / 5 / 10																									
002																2																		2.5 / 5 / 10																										
003	<del>12/18/21/24</del>																																																									2.5 / 5 / 10		
004																																																											2.5 / 5 / 10	
005																																																												2.5 / 5 / 10
006																																																												2.5 / 5 / 10
007																																																												2.5 / 5 / 10
008																																																												2.5 / 5 / 10
009																																																												2.5 / 5 / 10
010																																																												2.5 / 5 / 10
011																																																												2.5 / 5 / 10
012																																																												2.5 / 5 / 10
013																																																												2.5 / 5 / 10
014																																																												2.5 / 5 / 10
015																																																												2.5 / 5 / 10
016																																																												2.5 / 5 / 10
017																																																												2.5 / 5 / 10
018																																																												2.5 / 5 / 10
019																																																												2.5 / 5 / 10
020																																		2.5 / 5 / 10																										

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						

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

**Sample Condition Upon Receipt Form (SCUR)**

Client Name: Burns & McDonnell

Project #: \_\_\_\_\_

**WO#: 40238530**

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walco  
 Client  Pace Other: \_\_\_\_\_



Tracking #: 5477 9385 1733

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

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

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used SR-114 Type of Ice: Wet Blue Dry None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4 /Corr: 4.1

Temp Blank Present:  yes  no

Biological Tissue is Frozen:  yes  no

Person examining contents:	
Date: <u>12/18/21</u>	Initials: <u>MP</u>
Labeled By Initials: <u>ALW</u>	

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input 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.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>471</u>		

**Client Notification/ Resolution:** \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

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

## Analytical Report

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

December 27, 2021

Work Order: 21L0647

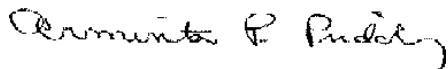
RE: Green Bay  
134707 Marshall Megasite / 40238530

Dear Brian Basten:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

Approved by,



Arminta Priddy  
Project Manager  
847.967.6666  
apriddy@emt.com  
Approved for release: 12/27/2021 3:04:51PM



Nathan Fey  
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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**Sample Summary**

<u>Sample ID</u>	<u>Laboratory ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
KM2R-20211217	21L0647-01	Water	12/17/21 11:20	12/21/21 10:20

## Case Narrative

**Client:** Pace Analytical Services, Inc.

**Date:** 12/27/2021

**Project:** Green Bay  
134707 Marshall Megasite / 40238530

**Work Order:** 21L0647

---

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

**Work Order: 21L0647**

The samples were received on 12/21/21 10:20. The temperature of the cooler(s) at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	4.3

The samples were received in good condition and were properly preserved.



### Client Sample Results

**Client:** Pace Analytical Services, Inc.  
**Project:** Green Bay  
 134707 Marshall Megasite / 40238530  
**Work Order:** 21L0647

**Client Sample ID:** KM2R-20211217  
**Report Date:** 12/27/2021  
**Collection Date:** 12/17/2021 11:20  
**Matrix:** Water  
**Lab ID:** 21L0647-01

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
<b>Organochlorine Pesticides by GC/ECD</b>										
Method: SW8081B / SW3510										
4,4'-DDD	< 0.00920	0.0413		ug/L	0.00920	12/22/21 12:48	B1L0659	AJR	1	
4,4'-DDE	< 0.00837	0.0413		ug/L	0.00837	12/22/21 12:48	B1L0659	AJR	1	
4,4'-DDT	< 0.0175	0.0827		ug/L	0.0175	12/22/21 12:48	B1L0659	AJR	1	
Aldrin	< 0.0103	0.0413		ug/L	0.0103	12/22/21 13:05	B1L0659	AJR	1	
alpha-BHC	< 0.0101	0.0413		ug/L	0.0101	12/22/21 12:48	B1L0659	AJR	1	
beta-BHC	< 0.00754	0.0413		ug/L	0.00754	12/22/21 12:48	B1L0659	AJR	1	
delta-BHC	< 0.00961	0.0413		ug/L	0.00961	12/22/21 13:05	B1L0659	AJR	1	
Dieldrin	< 0.00899	0.0413		ug/L	0.00899	12/22/21 13:05	B1L0659	AJR	1	
Endosulfan I	< 0.00837	0.0413		ug/L	0.00837	12/22/21 12:48	B1L0659	AJR	1	
Endosulfan II	< 0.00982	0.0413		ug/L	0.00982	12/22/21 12:48	B1L0659	AJR	1	
Endosulfan sulfate	< 0.0118	0.0413		ug/L	0.0118	12/22/21 12:48	B1L0659	AJR	1	
Endrin	< 0.00909	0.0413		ug/L	0.00909	12/22/21 12:48	B1L0659	AJR	1	
Endrin aldehyde	< 0.0121	0.0413		ug/L	0.0121	12/22/21 13:05	B1L0659	AJR	1	
gamma-BHC	< 0.0100	0.0413		ug/L	0.0100	12/22/21 13:05	B1L0659	AJR	1	
Heptachlor	< 0.0103	0.0413		ug/L	0.0103	12/22/21 13:05	B1L0659	AJR	1	
Heptachlor epoxide	< 0.0100	0.0413		ug/L	0.0100	12/22/21 12:48	B1L0659	AJR	1	
Methoxychlor	< 0.0250	0.0827		ug/L	0.0250	12/22/21 13:05	B1L0659	AJR	1	
Surrogate: Decachlorobiphenyl				Recovery: 87%	Limits: 12-124	12/22/21 12:48	B1L0659	AJR	1	
Surrogate: 2,4,5,6-Tetrachloro-m-xylene				Recovery: 75%	Limits: 25-100	12/22/21 12:48	B1L0659	AJR	1	
<b>Herbicides by High Pressure Liquid Chromatography (HPLC)</b>										
Method: SW8321B / SW3510										
2,4,5-T	< 0.297	3.09		ug/L	0.297	12/22/21 17:50	B1L0657	GLB	1	
2,4,5-TP (Silvex)	< 0.580	3.09		ug/L	0.580	12/22/21 17:50	B1L0657	GLB	1	
2,4-D	< 0.806	6.18		ug/L	0.806	12/22/21 17:50	B1L0657	GLB	1	
2,4-DB	< 0.340	3.09		ug/L	0.340	12/22/21 17:50	B1L0657	GLB	1	
Dicamba	< 0.408	3.09		ug/L	0.408	12/22/21 17:50	B1L0657	GLB	1	
Dichlorprop	< 0.426	3.09		ug/L	0.426	12/22/21 17:50	B1L0657	GLB	1	
Dinoseb	< 0.314	3.09		ug/L	0.314	12/22/21 17:50	B1L0657	GLB	1	
MCPA	< 0.674	3.09		ug/L	0.674	12/22/21 17:50	B1L0657	GLB	1	
MCPP	< 0.748	3.09		ug/L	0.748	12/22/21 17:50	B1L0657	GLB	1	
Surrogate: 3,5-Dichlorobenzoic Acid				Recovery: 93%	Limits: 37-128	12/22/21 17:50	B1L0657	GLB	1	

## Dates Report

**Client:** Pace Analytical Services, Inc.  
**Project:** Green Bay  
 134707 Marshall Megasite / 40238530  
**Work Order:** 21L0647

**Report Date:** 12/27/2021

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
21L0647-01	KM2R-20211217	12/17/21	Water	Herbicides by HPLC		12/21/21 11:13	12/22/21 17:50	B1L0657	S1L0350
				Organochlorine Pesticides by GC/ECD		12/21/21 11:13	12/22/21 13:05	B1L0659	S1L0371
				Organochlorine Pesticides by GC/ECD		12/21/21 11:13	12/22/21 12:48		

### Quality Control

**Client:** Pace Analytical Services, Inc.  
**Project:** Green Bay  
 134707 Marshall Megasite / 40238530  
**Work Order:** 21L0647

**Report Date:** 12/27/2021  
**Matrix:** Water

### Organochlorine Pesticides by GC/ECD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	------	----

#### Batch: B1L0659 - SW3510

##### Blank (B1L0659-BLK1)

Prepared: 12/21/2021 07:21 Analyzed: 12/22/2021 11:22

4,4'-DDD	< 0.00890	0.0400	ug/L								1
4,4'-DDE	< 0.00810	0.0400	ug/L								1
4,4'-DDT [2C]	< 0.0169	0.0800	ug/L								1
Aldrin [2C]	< 0.0100	0.0400	ug/L								1
alpha-BHC [2C]	< 0.00980	0.0400	ug/L								1
beta-BHC	< 0.00730	0.0400	ug/L								1
delta-BHC	< 0.00930	0.0400	ug/L								1
Dieldrin	< 0.00870	0.0400	ug/L								1
Endosulfan I	< 0.00810	0.0400	ug/L								1
Endosulfan II	< 0.00950	0.0400	ug/L								1
Endosulfan sulfate	< 0.0114	0.0400	ug/L								1
Endrin	< 0.00880	0.0400	ug/L								1
Endrin aldehyde	< 0.0117	0.0400	ug/L								1
gamma-BHC [2C]	< 0.00970	0.0400	ug/L								1
Heptachlor	< 0.0100	0.0400	ug/L								1
Heptachlor epoxide	< 0.00970	0.0400	ug/L								1
Methoxychlor	< 0.0242	0.0800	ug/L								1
<hr/>											
Surrogate: Decachlorobiphenyl	0.0883		ug/L	0.1000		88	12-124				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.0711		ug/L	0.1000		71	25-100				1

##### LCS (B1L0659-BS1)

Prepared: 12/21/2021 07:21 Analyzed: 12/22/2021 11:56

4,4'-DDD [2C]	0.0982	0.0400	ug/L	0.1000		98	54-121				1
4,4'-DDE	0.0949	0.0400	ug/L	0.1000		95	50-114				1
4,4'-DDT [2C]	0.0982	0.0800	ug/L	0.1000		98	53-121				1
Aldrin [2C]	0.0748	0.0400	ug/L	0.1000		75	37-101				1
alpha-BHC	0.0899	0.0400	ug/L	0.1000		90	42-117				1
beta-BHC [2C]	0.0905	0.0400	ug/L	0.1000		91	49-121				1
delta-BHC	0.0953	0.0400	ug/L	0.1000		95	48-123				1
Dieldrin [2C]	0.0954	0.0400	ug/L	0.1000		95	54-117				1
Endosulfan I	0.0929	0.0400	ug/L	0.1000		93	55-113				1
Endosulfan II	0.0955	0.0400	ug/L	0.1000		95	56-118				1
Endosulfan sulfate [2C]	0.0975	0.0400	ug/L	0.1000		98	47-122				1
Endrin [2C]	0.0967	0.0400	ug/L	0.1000		97	57-116				1
Endrin aldehyde	0.0985	0.0400	ug/L	0.1000		99	42-124				1
gamma-BHC [2C]	0.0916	0.0400	ug/L	0.1000		92	45-119				1
Heptachlor	0.0785	0.0400	ug/L	0.1000		79	44-105				1
Heptachlor epoxide [2C]	0.0943	0.0400	ug/L	0.1000		94	54-114				1
Methoxychlor [2C]	0.0995	0.0800	ug/L	0.1000		100	52-125				1
<hr/>											
Surrogate: Decachlorobiphenyl	0.0868		ug/L	0.1000		87	12-124				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	0.0801		ug/L	0.1000		80	25-100				1

**Quality Control**

(Continued)

**Client:** Pace Analytical Services, Inc.  
**Project:** Green Bay  
 134707 Marshall Megasite / 40238530  
**Work Order:** 21L0647

**Report Date:** 12/27/2021  
**Matrix:** Water

**Organochlorine Pesticides by GC/ECD**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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**Batch: B1L0659 - SW3510 (Continued)****Matrix Spike (B1L0659-MS1)****Source: 21L0566-01**

Prepared: 12/21/2021 07:21 Analyzed: 12/22/2021 12:13

4,4'-DDD [2C]	1.76	0.771	ug/L	1.927	ND	91	36-128				1
4,4'-DDE	1.68	0.771	ug/L	1.927	ND	87	32-127				1
4,4'-DDT [2C]	1.75	1.54	ug/L	1.927	ND	91	40-127				1
Aldrin [2C]	1.30	0.771	ug/L	1.927	ND	68	34-106				1
alpha-BHC	1.70	0.771	ug/L	1.927	ND	88	32-120				1
beta-BHC [2C]	1.64	0.771	ug/L	1.927	ND	85	38-131				1
delta-BHC	1.72	0.771	ug/L	1.927	ND	89	40-137				1
Dieldrin [2C]	1.69	0.771	ug/L	1.927	ND	88	47-128				1
Endosulfan I	1.74	0.771	ug/L	1.927	ND	90	39-124				1
Endosulfan II	1.73	0.771	ug/L	1.927	ND	90	37-128				1
Endosulfan sulfate [2C]	1.75	0.771	ug/L	1.927	ND	91	37-128				1
Endrin	1.72	0.771	ug/L	1.927	ND	90	51-127				1
Endrin aldehyde	1.80	0.771	ug/L	1.927	ND	93	27-133				1
gamma-BHC	1.70	0.771	ug/L	1.927	ND	88	37-121				1
Heptachlor	1.42	0.771	ug/L	1.927	ND	74	34-113				1
Heptachlor epoxide	1.71	0.771	ug/L	1.927	ND	89	47-123				1
Methoxychlor [2C]	1.76	1.54	ug/L	1.927	ND	91	50-132				1
<hr/>											
Surrogate: Decachlorobiphenyl	1.86		ug/L	1.927		97	12-124				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	1.39		ug/L	1.927		72	25-100				1

**Matrix Spike Dup (B1L0659-MSD1)****Source: 21L0566-01**

Prepared: 12/21/2021 07:21 Analyzed: 12/22/2021 12:13

4,4'-DDD	1.76	0.758	ug/L	1.894	ND	93	36-128	2	33		1
4,4'-DDE	1.72	0.758	ug/L	1.894	ND	91	32-127	3	41		1
4,4'-DDT	1.73	1.52	ug/L	1.894	ND	92	40-127	2	38		1
Aldrin	1.34	0.758	ug/L	1.894	ND	71	34-106	4	37		1
alpha-BHC	1.74	0.758	ug/L	1.894	ND	92	32-120	3	35		1
beta-BHC	1.67	0.758	ug/L	1.894	ND	88	38-131	3	33		1
delta-BHC	1.78	0.758	ug/L	1.894	ND	94	40-137	3	33		1
Dieldrin	1.73	0.758	ug/L	1.894	ND	91	47-128	3	35		1
Endosulfan I	1.73	0.758	ug/L	1.894	ND	91	39-124	0.6	37		1
Endosulfan II	1.78	0.758	ug/L	1.894	ND	94	37-128	3	31		1
Endosulfan sulfate	1.78	0.758	ug/L	1.894	ND	94	37-128	4	26		1
Endrin	1.77	0.758	ug/L	1.894	ND	93	51-127	2	37		1
Endrin aldehyde	1.85	0.758	ug/L	1.894	ND	98	27-133	3	32		1
gamma-BHC	1.74	0.758	ug/L	1.894	ND	92	37-121	2	36		1
Heptachlor	1.44	0.758	ug/L	1.894	ND	76	34-113	1	38		1
Heptachlor epoxide	1.77	0.758	ug/L	1.894	ND	93	47-123	3	34		1
Methoxychlor	1.77	1.52	ug/L	1.894	ND	94	50-132	3	33		1
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Surrogate: Decachlorobiphenyl	1.90		ug/L	1.894		100	12-124				1
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	1.26		ug/L	1.894		67	25-100				1

**Quality Control**

(Continued)

**Client:** Pace Analytical Services, Inc.  
**Project:** Green Bay  
 134707 Marshall Megasite / 40238530  
**Work Order:** 21L0647

**Report Date:** 12/27/2021  
**Matrix:** Water

**Herbicides by High Pressure Liquid Chromatography (HPLC)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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**Batch: B1L0657 - SW3510****Blank (B1L0657-BLK1)**

Prepared: 12/21/2021 10:23 Analyzed: 12/22/2021 14:05

2,4,5-T	< 0.288	3.00	ug/L								1
2,4,5-TP (Silvex)	< 0.564	3.00	ug/L								1
2,4-D	< 0.783	6.00	ug/L								1
2,4-DB	< 0.330	3.00	ug/L								1
Dicamba	< 0.396	3.00	ug/L								1
Dichlorprop	< 0.414	3.00	ug/L								1
Dinoseb	< 0.305	3.00	ug/L								1
MCPA	< 0.654	3.00	ug/L								1
MCPP	< 0.726	3.00	ug/L								1
<i>Surrogate: 3,5-Dichlorobenzoic Acid</i>	55.7		ug/L	50.00		111	37-128				1

**LCS (B1L0657-BS1)**

Prepared: 12/21/2021 10:23 Analyzed: 12/22/2021 14:42

2,4,5-T	< 0.288	3.00	ug/L				45-140				1
2,4,5-TP (Silvex)	8.34	3.00	ug/L	10.00		83	66-120				1
2,4-D	7.78	6.00	ug/L	10.00		78	44.4-117				1
2,4-DB	< 0.330	3.00	ug/L				57-131				1
Dicamba	6.80	3.00	ug/L	10.00		68	14-118				1
Dichlorprop	7.85	3.00	ug/L	10.00		79	18-131				1
Dinoseb	< 0.305	3.00	ug/L				49-130				1
MCPA	< 0.654	3.00	ug/L				27-126				1
MCPP	< 0.726	3.00	ug/L				51-102				1
<i>Surrogate: 3,5-Dichlorobenzoic Acid</i>	49.3		ug/L	50.00		99	37-128				1

**LCS (B1L0657-BS2)**

Prepared: 12/21/2021 11:13 Analyzed: 12/22/2021 15:20

2,4,5-T	8.96	3.00	ug/L	10.00		90	45-140				1
2,4,5-TP (Silvex)	< 0.564	3.00	ug/L				66-120				1
2,4-D	8.91	6.00	ug/L				44.4-117				1
2,4-DB	9.57	3.00	ug/L	10.00		96	57-131				1
Dicamba	< 0.396	3.00	ug/L				14-118				1
Dichlorprop	8.55	3.00	ug/L				18-131				1
Dinoseb	8.33	3.00	ug/L	10.00		83	49-130				1
MCPA	8.86	3.00	ug/L	10.00		89	27-126				1
MCPP	8.70	3.00	ug/L	10.00		87	51-102				1
<i>Surrogate: 3,5-Dichlorobenzoic Acid</i>	57.1		ug/L	50.00		114	37-128				1

**Matrix Spike (B1L0657-MS1)**

Source: 21L0566-01

Prepared: 12/21/2021 10:23 Analyzed: 12/22/2021 15:57

2,4,5-T	< 4.93	51.4	ug/L		ND		50-150				1
2,4,5-TP (Silvex)	173	51.4	ug/L	171.2	ND	101	36-156				1
2,4-D	163	103	ug/L	171.2	ND	95	31-155				1
2,4-DB	< 5.65	51.4	ug/L		ND		50-150				1
Dicamba	147	51.4	ug/L	171.2	ND	86	22-151				1
Dichlorprop	180	51.4	ug/L	171.2	ND	105	30-152				1

**Quality Control**

(Continued)

**Client:** Pace Analytical Services, Inc.  
**Project:** Green Bay  
 134707 Marshall Megasite / 40238530  
**Work Order:** 21L0647

**Report Date:** 12/27/2021**Matrix:** Water**Herbicides by High Pressure Liquid Chromatography (HPLC)**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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**Batch: B1L0657 - SW3510 (Continued)****Matrix Spike (B1L0657-MS1) (Continued)****Source: 21L0566-01**

Prepared: 12/21/2021 10:23 Analyzed: 12/22/2021 15:57

Dinoseb	7.44	51.4	ug/L		ND		50-150			J	1
MCPA	< 11.2	51.4	ug/L		ND		50-150				1
MCPP	< 12.4	51.4	ug/L		ND		50-150				1
<i>Surrogate: 3,5-Dichlorobenzoic Acid</i>	934		ug/L	856.2		109	37-128				1

**Matrix Spike Dup (B1L0657-MSD1)****Source: 21L0566-01**

Prepared: 12/21/2021 10:23 Analyzed: 12/22/2021 16:35

2,4,5-T	< 5.01	52.2	ug/L		ND		50-150		30		1
2,4,5-TP (Silvex)	154	52.2	ug/L	173.9	ND	89	36-156	11	30		1
2,4-D	146	104	ug/L	173.9	ND	84	31-155	11	30		1
2,4-DB	< 5.73	52.2	ug/L		ND		50-150		30		1
Dicamba	132	52.2	ug/L	173.9	ND	76	22-151	11	30		1
Dichlorprop	153	52.2	ug/L	173.9	ND	88	30-152	17	30		1
Dinoseb	< 5.30	52.2	ug/L		ND		50-150		30		1
MCPA	< 11.4	52.2	ug/L		ND		50-150		30		1
MCPP	< 12.6	52.2	ug/L		ND		50-150		30		1
<i>Surrogate: 3,5-Dichlorobenzoic Acid</i>	812		ug/L	869.6		93	37-128				1

**Certified Analyses included in this Report**

Analyte	CAS #	Certifications
<b>SW8081B in Water</b>		
4,4'-DDD	72-54-8	DoD, ILEPA, WDNR
4,4'-DDE	72-55-9	DoD, ILEPA, WDNR
4,4'-DDT	50-29-3	DoD, ILEPA, WDNR
Aldrin	309-00-2	DoD, ILEPA, WDNR
alpha-BHC	319-84-6	DoD, ILEPA, WDNR
beta-BHC	319-85-7	DoD, ILEPA, WDNR
delta-BHC	319-86-8	DoD, ILEPA, WDNR
Dieldrin	60-57-1	DoD, ILEPA, WDNR
Endosulfan I	959-98-8	DoD, ILEPA, WDNR
Endosulfan II	33213-65-9	DoD, ILEPA, WDNR
Endosulfan sulfate	1031-07-8	DoD, ILEPA, WDNR
Endrin	72-20-8	DoD, ILEPA, WDNR
Endrin aldehyde	7421-93-4	DoD, ILEPA, WDNR
gamma-BHC	58-89-9	DoD, ILEPA, WDNR
Heptachlor	76-44-8	DoD, ILEPA, WDNR
Heptachlor epoxide	1024-57-3	DoD, ILEPA, WDNR
Methoxychlor	72-43-5	DoD, ILEPA, WDNR
<b>SW8321B in Water</b>		
2,4,5-T	93-76-5	DoD, ILEPA, WDNR
2,4,5-TP (Silvex)	93-72-1	DoD, ILEPA, WDNR
2,4-D	94-75-7	DoD, ILEPA, WDNR
2,4-DB	94-82-6	DoD, ILEPA, WDNR
Dicamba	1918-00-9	DoD, ILEPA, WDNR
Dichlorprop	120-36-5	DoD, ILEPA
Dinoseb	88-85-7	DoD, ILEPA, WDNR
MCPA	94-74-6	DoD, ILEPA, WDNR
MCPP	7085-19-0	DoD, ILEPA, WDNR

**List of Certifications**

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	05/31/2022
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2022
DoD	Department of Defense, Accredited by PJLA	L20-164-R2	03/31/2022
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562021-6	07/27/2022
ISO	ISO/IEC 17025:2017, Accredited by PJLA	L20-165	03/31/2022
NEFAP	TNI National Environmental Field Activities Program	L20-166	03/31/2022
TX	Texas Commission of Environmental Quality	T104704554-20-5	10/31/2022
WA	Washington State Department of Ecology	C1057	01/05/2022
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2022



### Qualifiers and Definitions

Item	Description
J	The reported result is an estimated value.
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.



21L0647  
 PM: Arminta Priddy  
 Pace Analytical Services, Inc.  
 Green Bay



Workorder: 40238530      Workorder Name: 134707 MARSHALL MEGASITE      Results Requested By: 12/28/2021

Report / Invoice To		Subcontract To		Requested Analysis											
Brian Basten Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436 Email: brian.basten@pacelabs.com		EMT 509 N. 3rd Ave Des Plaines, IL 60016 P.O.		Pesticides and Herbicides											
State of Sample Origin: MI		Preserved Containers													
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Unpreserved									LAB USE ONLY	
1	KM2R-20211217	12/17/2021 11:20	40238530001	Water	2									01A,B	
2															
3															
4															
5															
Transfers		Released By	Date/Time	Received By	Date/Time	Comments									
1		<i>[Signature]</i>	12/21/2021												
2															
3					12/21/2021 10:20										
Cooler Temperature on Receipt		4.3 °C	Custody Seal	Y or N	Received on Ice	Y or N					Samples Intact				Y or N

# Sample Receipt Checklist

Printed: 12/21/2021 10:57:57AM

Work Order: 21L0647

Client: Pace Analytical Services, Inc.  
Project: Green Bay

Date Due: Thursday, December 30, 2021

Received By: Greg Allgire  
Logged In By: Greg Allgire

Date Received: 12/21/21 10:20  
Date Logged In: 12/21/21 10:32

How were samples received? UPS

Cooler temperature at or below 6 degrees Celsius Yes

Chain of Custody present and properly completed Yes

Turn Around Time is indicated and specified Yes

Chain of Custody agrees with sample labels Yes

Samples received within hold time Yes

Proper sample containers received intact Yes

Containers properly preserved Yes

Sufficient Sample Volume Yes

Custody seals present Yes Intact? Y N

Volatile water vials received No

Sample Receipt Comments  
**Work Order: 21L0647**

The samples were received on 12/21/21 10:20. The temperature of the cooler(s) at receipt was:

Cooler Temp C°  
Default Cooler 4.3

The samples were received in good condition and were properly preserved.

Samples going out of hold time within 24 hours:

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GA1  
 Reviewed By: \_\_\_\_\_ Date: 12/21/2021