501 West Bell Street
Neenah, WI 54956-4868
P: 920.729.1100 | T: 1.800.776.7196
F: 920.729.4945

N.E.W. WATER/GREEN BAY METROPOLITAN SEWERAGE DISTRICT
2231 N QUINCY ST
GREEN BAY, WI 54302-1248

Attn: JULIE MAAS

Project Number: 18006218
Report Date: 5/18/2018
Sampled By: Client

PO#: 2018 - 1775
Samples: 6

Sample Number: 48013054
Sample ID: GAC CENTER
Sample Date: 5/2/2018
Date Received: 5/9/2018
12 HR SOXLET EXTRACTION Results expressed on a dry weight basis.

Parameter	Results	Units	LOD	LOQ	Dil.	Method	Analyzed	Codes
MERCURY, TOTAL	<0.03	mg/kg	0.03	0.1	136	SM7471B	05/16/18	
SOXLET EXTRACTION	DONE						05/16/18	
SULFATE	6724	mg/kg	466	1552	2025	EPA300.0	05/17/18	
SULFUR	14.83	%	0.02	0.02		ASTM D3177	05/16/18	
TOTAL SOLIDS	100	%	0.010	0.010		SM2540B	05/16/18	

Sample Number: 48013055
Sample ID: GAC CENTER
Sample Date: 5/2/2018
Date Received: 5/9/2018
24 HR SOXLET EXTRACTION Results expressed on a dry weight basis.

Parameter	Results	Units	LOD	LOQ	Dil.	Method	Analyzed	Codes
SOXLET EXTRACTION	DONE						05/16/18	
SULFATE	7846	mg/kg	469	1562	2038	EPA300.0	05/17/18	

Sample Number: 48013056
Sample ID: GAC EAST
Sample Date: 5/2/2018
Date Received: 5/9/2018
12 HR SOXLET EXTRACTION Results expressed on a dry weight basis.

Parameter	Results	Units	LOD	LOQ	Dil.	Method	Analyzed	Codes
MERCURY, TOTAL	<0.03	mg/kg	0.03	0.1	137	SM7471B	05/16/18	
SOXLET EXTRACTION	DONE						05/16/18	
SULFATE	9734	mg/kg	459	1528	1995	EPA300.0	05/17/18	
SULFUR	16.23	%	0.02	0.02		ASTM D3177	05/16/18	
TOTAL SOLIDS	100	%	0.010	0.010		SM2540B	05/16/18	

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Sample Number: 48013057
Sample ID: GAC EAST
Sample Date: 5/2/2018
Date Received: 5/9/2018
24 HR SOXLET EXTRACTION Results expressed on a dry weight basis.

Parameter	Results	Units	LOD	LOQ	Dil.	Method	Analyzed	Codes
SOXLET EXTRACTION	DONE						05/16/18	
SULFATE	10645	mg/kg	463	1542	2012	EPA300.0	05/17/18	

Sample Number: 48013058
Sample ID: GAC WEST
Sample Date: 5/2/2018
Date Received: 5/9/2018
12 HR SOXLET EXTRACTION Results expressed on a dry weight basis.

Parameter	Results	Units	LOD	LOQ	Dil.	Method	Analyzed	Codes
MERCURY, TOTAL	<0.03	mg/kg	0.03	0.1	136	SM7471B	05/16/18	
SOXLET EXTRACTION	DONE						05/16/18	
SULFATE	8032	mg/kg	464	1545	2016	EPA300.0	05/17/18	
SULFUR	15.32	%	0.02	0.02		ASTM D3177	05/16/18	
TOTAL SOLIDS	99.9	%	0.010	0.010		SM2540B	05/16/18	

Sample Number: 48013059
Sample ID: GAC WEST
Sample Date: 5/2/2018
Date Received: 5/9/2018
24 HR SOXLET EXTRACTION Results expressed on a dry weight basis.

Parameter	Results	Units	LOD	LOQ	Dil.	Method	Analyzed	Codes
SOXLET EXTRACTION	DONE						05/16/18	
SULFATE	9891	mg/kg	459	1528	1994	EPA300.0	05/17/18	

All LOD/LOQs adjusted for dilution and/or solids content.

BADGER LABORATORIES & ENGINEERING CO., INC.
WDNR Certified Lab #445023150
Approved By:

Amanda Vordus

BLE:gr

18006218

CHEMISTS
ENGINEERS

BADGER LABORATORIES & ENGINEERING, INC.

501 WEST BELL STREET - NEENAH, WISCONSIN 54956-4868 - EST. 1966
(920) 729-1100 - Fax (920) 729-4945 - 1-800-776-7196

SAMPLE RECEIPT FORM

CLIENT INFORMATION

COMPANY: GBMSD/NEW Water
NAME: Julie Maas
ADDRESS: 2231 N. Quincy, Green Bay, WI, 54302
FAX/PHONE/EMAIL: jmaas@newwater.US
P.O. #:
PROJECT/SITE: GAC Carbon
REPORT & BILL TO: Julie Maas
ADDITIONAL REPORTS TO:

TURN AROUND TIME:
☒ Normal
☐ Other TAT*

*REQUIRES PRIOR LAB APPROVAL _____

SAMPLE TYPE:
☐ Groundwater ☐ Lab Filtered
☐ Wastewater ☐ Field Filtered
☐ WPDES ☒ Grab
☐ Cooling Water ☐ Composite
☐ Drinking Water ☐ Flow Proportional
☐ Solid Waste ☐ Time Proportional
☐ Oil
☐ Other _____

CUSTOMER SAMPLE ID	SAMPLE DATE/TIME	DATE REC'D	BL & E REPORT #	BL & E SAMPLE #	TEMP *	# OF CONTAINERS	ice Y/N	DELIVERY METHOD: BL&E	CLIENT	UPS	OTHER	PRESERVATION: PIF	PIL	NON-PRES	H2SO4	HNO3	NAOH	OTHER	ANALYTICAL REQUESTS	pH ok	EP
GAC Center	5/2 4pm	5/9	4014	13054		1	N	✓						✓					Sulfur ASTM D3177		
				PF															Soxhlet Extraction		
																			Sulfate SM4500SO4E		
																			Total Solids		
																			Mercury, total EPA 245.1		

CHAIN OF CUSTODY RECORD

FILLED IN BY CUSTOMER
SAMPLED BY: Craig Lawniczak
DATE/TIME SAMPLED: 5/2 4:00 PM
RELINQUISHED BY: Julie A Maas 5/8/18 10:15

FILLED IN BY BADGER LABS & ENG
RECEIVED BY: NH
DATE/TIME RECEIVED: 5/9/18 1015
LOGGED IN:

* Temperature over 6°C are above EPA/DNR Protocol unless received on ice.
* EP= If pH was not correct, extra preservation was added until correct pH was achieved.
* PIF= Preserved in field.
* PIL= Preserved in lab.

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CHEMISTS

ENGINEERS

BADGER LABORATORIES & ENGINEERING, INC.

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(920) 729-1100 - Fax (920) 729-4945 - 1-800-776-7196

SAMPLE RECEIPT FORM

CLIENT INFORMATION

COMPANY: GBMSD/ NEW Water
NAME: Julie Maas
ADDRESS: 2231 N. Quincy Green Bay, WI 54302
FAX/PHONE/EMAIL: jmaas@newwater.us
P.O. #:
PROJECT/SITE: GAC Carbon
REPORT & BILL TO: Julie Maas
ADDITIONAL REPORTS TO:

TURN AROUND TIME:

- [x] Normal
- [ ] Other TAT*

*REQUIRES PRIOR LAB APPROVAL _____

SAMPLE TYPE:

- [ ] Groundwater
- [ ] Wastewater
- [ ] WPDES
- [ ] Cooling Water
- [ ] Drinking Water
- [ ] Solid Waste
- [ ] Oil
- [ ] Other _____
- [ ] Lab Filtered
- [ ] Field Filtered
- [x] Grab
- [ ] Composite
- [ ] Flow Proportional
- [ ] Time Proportional

CUSTOMER SAMPLE ID	SAMPLE DATE/TIME	DATE REC'D	BL & E REPORT #	BL & E SAMPLE #	TEMP *	# OF CONTAINERS	Ice Y/N	DELIVERY METHOD: BL&E	CLIENT	UPS	OTHER	PRESERVATION: PIF	PIL	NON-PRES	H2SO4	HNO3	NAOH	OTHER	ANALYTICAL REQUESTS	pH ok	EP
GAC East	5/2, 4pm	5/9	[illegible]	B056		1	N	✓						✓					Sulfur ASTM D3177		
				B057															Soxhlet Extraction		
																			Sulfate SM4500SO4E		
																			Total Solids		
																			Mercury, total EPA 245.1		

CHAIN OF CUSTODY RECORD

FILLED IN BY CUSTOMER	FILLED IN BY BADGER LABS & ENG	
SAMPLED BY: Craig Lawniczak	RECEIVED BY: NA	
DATE/TIME SAMPLED: 5/2 4:00pm	DATE/TIME RECEIVED: 5/9/18 1015	
RELINQUISHED BY: Julie C. Maas 5/8/18 10:15A	LOGGED IN:	

* Temperature over 6°C are above EPA/DNR Protocol unless received on ice.
* EP= If pH was not correct, extra preservation was added until correct pH was achieved.
* PIF= Preserved in field.
* PIL= Preserved in lab.

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CHEMISTS
ENGINEERS

BADGER LABORATORIES & ENGINEERING, INC.

501 WEST BELL STREET - NEENAH, WISCONSIN 54956-4868 - EST. 1966
(920) 729-1100 - Fax (920) 729-4945 - 1-800-776-7196

SAMPLE RECEIPT FORM

CLIENT INFORMATION

COMPANY: GBMSD/NEW Water
NAME: Julie Maas
ADDRESS: 2231 N Quincy, Green Bay, WI 54302
FAX/PHONE/EMAIL: Jmaas@newwater.us
P.O. #:
PROJECT/SITE: GAC Carbon
REPORT & BILL TO: Julie Maas
ADDITIONAL REPORTS TO: —

TURN AROUND TIME:
- [x] Normal
- [ ] Other TAT*

*REQUIRES PRIOR LAB APPROVAL _____

SAMPLE TYPE:
- [ ] Groundwater
- [ ] Wastewater
- [ ] WPDES
- [ ] Cooling Water
- [ ] Drinking Water
- [ ] Solid Waste
- [ ] Oil
- [ ] Other _____
- [ ] Lab Filtered
- [ ] Field Filtered
- [x] Grab
- [ ] Composite
- [ ] Flow Proportional
- [ ] Time Proportional

CUSTOMER SAMPLE ID	SAMPLE DATE/TIME	DATE REC'D	BL & E REPORT #	BL & E SAMPLE #	TEMP *	# OF CONTAINERS	Ice Y/N	DELIVERY METHOD: BL&E	CLIENT	UPS	OTHER	PRESERVATION: PIF	PIL	NON-PRES	H2SO4	HNO3	NAOH	OTHER	ANALYTICAL REQUESTS	pH ok	EP
GAC West	5/2 4pm	5/9	6214	13078		1	N	✓						✓					Sulfur ASTM D3177		
				13075															Soxhlet extraction		
																			Sulfate SM4500SO4E		
																			Total Solids		
																			Mercury, total EPA 245.1		

CHAIN OF CUSTODY RECORD

FILLED IN BY CUSTOMER
SAMPLED BY: Craig Lawniczak
DATE/TIME SAMPLED: 5/2 4:00 pm
RELINQUISHED BY: Julie C. Maas 5/9/18 10:15AM

FILLED IN BY BADGER LABS & ENG
RECEIVED BY: NH
DATE/TIME RECEIVED: 5/9/18 1015
LOGGED IN: AS

* Temperature over 6°C are above EPA/DNR Protocol unless received on ice.
* EP= If pH was not correct, extra preservation was added until correct pH was achieved.

* PIF= Preserved in field.
* PIL= Preserved in lab.

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