



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: MILLER ENERGY COMPANY II, LLC
Name:
ClientProj: 2020704011.01
GTA ProjNo: 060823-20

Site Addr: N. BUCKEYE TANK BATTERY

Sampled By: JOSHUA GERRIE/GCES
Date Rec: 6/8/2023
Time Rec: 4:50 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-12D	6/8/2023		WATER
2	MW-14D	6/8/2023		WATER
3	MW-15D	6/8/2023		WATER
4	MW-4	6/8/2023		WATER
5	MW-11D	6/8/2023		WATER
6	MW-1D	6/8/2023		WATER
7	MW-13D	6/8/2023		WATER
8	MW-10D	6/8/2023		WATER
9	MW-4D	6/8/2023		WATER
10	MW-3	6/8/2023		WATER

ELECTRONIC SIGNATURE REPORT. This is a final report for the following pages of data for the samples specified above. All analysis was performed by the methods stated and all quality control measures required were completed. All quality control information is available upon request.

Kirk Chase

Kirk L. Chase/Chemist
Grand Traverse Analytical
830 Robinwood Court
Traverse City, MI 49686
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COMPANY: MILLER ENERGY COMPANY II, LLC

PROJECT NO: 2020704011.01

LOCATION: N. BUCKEYE TANK BATTERY

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-12D

GTA PROJECT NO: 060823-20

GTA SAMPLE NO: 1

DATE SAMPLED: 6/8/2023

TIME SAMPLED:

DATE RECEIVED: 6/8/2023

TIME RECEIVED: 4:50 PM

SAMPLED BY: JOSHUA GERRIE/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		6/14/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704011.01
 LOCATION: N. BUCKEYE TANK BATTERY
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-14D

GTA PROJECT NO: 060823-20
 GTA SAMPLE NO: 2
 DATE SAMPLED: 6/8/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/8/2023
 TIME RECEIVED: 4:50 PM

SAMPLED BY: JOSHUA GERRIE/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	31	1.0	ug/L (PPB)	MR		6/15/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704011.01
 LOCATION: N. BUCKEYE TANK BATTERY
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-15D

GTA PROJECT NO: 060823-20
 GTA SAMPLE NO: 3
 DATE SAMPLED: 6/8/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/8/2023
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SAMPLED BY: JOSHUA GERRIE/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	12	1.0	ug/L (PPB)	MR		6/15/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704011.01
 LOCATION: N. BUCKEYE TANK BATTERY
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-4

GTA PROJECT NO: 060823-20
 GTA SAMPLE NO: 4
 DATE SAMPLED: 6/8/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/8/2023
 TIME RECEIVED: 4:50 PM

SAMPLED BY: JOSHUA GERRIE/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	4.8	1.0	ug/L (PPB)	MR		6/15/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704011.01
 LOCATION: N. BUCKEYE TANK BATTERY
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-11D

GTA PROJECT NO: 060823-20
 GTA SAMPLE NO: 5
 DATE SAMPLED: 6/8/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/8/2023
 TIME RECEIVED: 4:50 PM

SAMPLED BY: JOSHUA GERRIE/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		6/15/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704011.01
 LOCATION: N. BUCKEYE TANK BATTERY
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-1D

GTA PROJECT NO: 060823-20
 GTA SAMPLE NO: 6
 DATE SAMPLED: 6/8/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/8/2023
 TIME RECEIVED: 4:50 PM

SAMPLED BY: JOSHUA GERRIE/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	86	1.0	ug/L (PPB)	MR		6/15/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: MILLER ENERGY COMPANY II, LLC
PROJECT NO: 2020704011.01
LOCATION: N. BUCKEYE TANK BATTERY
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-13D

GTA PROJECT NO: 060823-20
GTA SAMPLE NO: 7
DATE SAMPLED: 6/8/2023
TIME SAMPLED:
DATE RECEIVED: 6/8/2023
TIME RECEIVED: 4:50 PM

SAMPLED BY: JOSHUA GERRIE/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	180	1.0	ug/L (PPB)	MR		6/15/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704011.01
 LOCATION: N. BUCKEYE TANK BATTERY
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-10D

GTA PROJECT NO: 060823-20
 GTA SAMPLE NO: 8
 DATE SAMPLED: 6/8/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/8/2023
 TIME RECEIVED: 4:50 PM

SAMPLED BY: JOSHUA GERRIE/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	300	1.0	ug/L (PPB)	MR		6/15/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704011.01
 LOCATION: N. BUCKEYE TANK BATTERY
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-4D

GTA PROJECT NO: 060823-20
 GTA SAMPLE NO: 9
 DATE SAMPLED: 6/8/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/8/2023
 TIME RECEIVED: 4:50 PM

SAMPLED BY: JOSHUA GERRIE/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	620	1.0	ug/L (PPB)	MR		6/15/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704011.01
 LOCATION: N. BUCKEYE TANK BATTERY
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-3

GTA PROJECT NO: 060823-20
 GTA SAMPLE NO: 10
 DATE SAMPLED: 6/8/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/8/2023
 TIME RECEIVED: 4:50 PM

SAMPLED BY: JOSHUA GERRIE/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		6/15/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	1.4	1.0					
Xylene(Total)	4.8	3.0					
1,2,4-Trimethylbenzene	6.3	1.0					
1,3,5-Trimethylbenzene	2.3	1.0					
Naphthalene	5.3	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704011.01
 LOCATION: N. BUCKEYE TANK BATTERY

GTA PROJECT NO: 060823-20
 GTA SAMPLE NO: 1
 DATE SAMPLED: 6/8/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/8/2023
 TIME RECEIVED: 4:50 PM

MI
 SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID:	MW-12D	18,000	1,000	mg/L (PPM)	KC/TR	6/19/2023	WATER
	CHLORIDE EPA 300.0						

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 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704011.01
 LOCATION: N. BUCKEYE TANK BATTERY

GTA PROJECT NO: 060823-20
 GTA SAMPLE NO: 2
 DATE SAMPLED: 6/8/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/8/2023
 TIME RECEIVED: 4:50 PM

MI
 SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID: MW-14D	CHLORIDE EPA 300.0	40,000	1,000	mg/L (PPM)	KC/TR	6/19/2023	WATER

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704011.01
 LOCATION: N. BUCKEYE TANK BATTERY

GTA PROJECT NO: 060823-20
 GTA SAMPLE NO: 3
 DATE SAMPLED: 6/8/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/8/2023
 TIME RECEIVED: 4:50 PM

MI
 SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID:	MW-15D	62,000	1,000	mg/L (PPM)	KC/TR	6/19/2023	WATER
	CHLORIDE EPA 300.0						

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COMPANY: MILLER ENERGY COMPANY II, LLC
PROJECT NO: 2020704011.01
LOCATION: N. BUCKEYE TANK BATTERY

GTA PROJECT NO: 060823-20
GTA SAMPLE NO: 4
DATE SAMPLED: 6/8/2023
TIME SAMPLED:
DATE RECEIVED: 6/8/2023
TIME RECEIVED: 4:50 PM

MI
SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-4 CHLORIDE EPA 300.0	16	10	mg/L (PPM)	KC/TR	6/19/2023	WATER

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COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704011.01
 LOCATION: N. BUCKEYE TANK BATTERY

GTA PROJECT NO: 060823-20
 GTA SAMPLE NO: 5
 DATE SAMPLED: 6/8/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/8/2023
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MI
 SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID: MW-11D	CHLORIDE EPA 300.0	5,100	500	mg/L (PPM)	KC/TR	6/19/2023	WATER

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COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704011.01
 LOCATION: N. BUCKEYE TANK BATTERY

GTA PROJECT NO: 060823-20
 GTA SAMPLE NO: 6
 DATE SAMPLED: 6/8/2023
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MI
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SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID: MW-1D	CHLORIDE EPA 300.0	6,400	500	mg/L (PPM)	KC/TR	6/19/2023	WATER

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COMPANY: MILLER ENERGY COMPANY II, LLC
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LOCATION: N. BUCKEYE TANK BATTERY

GTA PROJECT NO: 060823-20
GTA SAMPLE NO: 7
DATE SAMPLED: 6/8/2023
TIME SAMPLED:
DATE RECEIVED: 6/8/2023
TIME RECEIVED: 4:50 PM

MI
SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID:	MW-13D	54,000	1,000	mg/L (PPM)	KC/TR	6/19/2023	WATER
	CHLORIDE EPA 300.0						

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GTA PROJECT NO: 060823-20
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SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID: MW-10D	CHLORIDE EPA 300.0	37,000	1,000	mg/L (PPM)	KC/TR	6/19/2023	WATER

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GTA PROJECT NO: 060823-20
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SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID: MW-4D	CHLORIDE EPA 300.0	22,000	1,000	mg/L (PPM)	KC/TR	6/19/2023	WATER

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704011.01
 LOCATION: N. BUCKEYE TANK BATTERY

GTA PROJECT NO: 060823-20
 GTA SAMPLE NO: 10
 DATE SAMPLED: 6/8/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/8/2023
 TIME RECEIVED: 4:50 PM

MI
 SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID: MW-3	CHLORIDE EPA 300.0	17	10	mg/L (PPM)	KC/TR	6/19/2023	WATER

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

CHAIN OF CUSTODY

PROJECT NUMBER 2020704011.01	SITE NAME/ADDRESS N. Buckeye Tank Battery	COMPANY/NAME Miller Energy Co.
SAMPLED BY Joshua Gerrie	COMPANY Gosling Cebsak	GTA PROJECT # 060823-20

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-12d	6-8-23		GW	BTEX+4 + Chloride
2	MW-14d	↓	↓	↓	↓
3	MW-15d				
4	MW-4				
5	MW-11d				
6	MW-1d				
7	MW-13d				
8	MW-10d				
9	MW-4d				
10	MW-3				

BILL TO: GCES	TempRec: <input type="checkbox"/> On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N 2.7°C	REPORT TO: Eric Vincke
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RELEASED BY <i>[Signature]</i>	DATE/TIME 6-8-23 / 1650	RECEIVED BY <i>[Signature]</i>	DATE/TIME 6/8/23 / 1650
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REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS