



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: 121024-10

Site Addr: N. BUCKEYE TANK BATTERY
Sampled By: JOSHUA GERRIE/GCES
Date Rec: 12/10/2024
Time Rec: 3:55 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-12D	12/10/2024	11:00 AM	WATER
2	MW-14D	12/10/2024	11:25 AM	WATER
3	MW-15D	12/10/2024	11:50 AM	WATER
4	MW-4	12/10/2024	1:35 PM	WATER
5	MW-11D	12/10/2024	12:20 PM	WATER
6	MW-13D	12/10/2024	12:45 PM	WATER
7	MW-10D	12/10/2024	1:05 PM	WATER
8	MW-4D	12/10/2024	1:40 PM	WATER

ELECTRONIC SIGNITURE 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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SP: 231-590-0291
kirk@gtanalytical.com

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: 121024-10
 GTA SAMPLE NO: 1
 DATE SAMPLED: 12/10/2024
 TIME SAMPLED: 11:00 AM
 DATE RECEIVED: 12/10/2024
 TIME RECEIVED: 3:55 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		12/11/2024	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



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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-14D

GTA PROJECT NO: 121024-10
 GTA SAMPLE NO: 2
 DATE SAMPLED: 12/10/2024
 TIME SAMPLED: 11:25 AM
 DATE RECEIVED: 12/10/2024
 TIME RECEIVED: 3:55 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	11	1.0	ug/L (PPB)	MR		12/11/2024	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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 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-15D

GTA PROJECT NO: 121024-10
 GTA SAMPLE NO: 3
 DATE SAMPLED: 12/10/2024
 TIME SAMPLED: 11:50 AM
 DATE RECEIVED: 12/10/2024
 TIME RECEIVED: 3:55 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	8.2	1.0	ug/L (PPB)	MR		12/11/2024	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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 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-4

GTA PROJECT NO: 121024-10
 GTA SAMPLE NO: 4
 DATE SAMPLED: 12/10/2024
 TIME SAMPLED: 1:35 PM
 DATE RECEIVED: 12/10/2024
 TIME RECEIVED: 3:55 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		12/11/2024	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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 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-11D

GTA PROJECT NO: 121024-10
 GTA SAMPLE NO: 5
 DATE SAMPLED: 12/10/2024
 TIME SAMPLED: 12:20 PM
 DATE RECEIVED: 12/10/2024
 TIME RECEIVED: 3:55 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	18	1.0	ug/L (PPB)	MR		12/11/2024	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.
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COMPANY:	MILLER ENERGY COMPANY II, LLC	GTA PROJECT NO:	121024-10
PROJECT NO:	2020704011.01	GTA SAMPLE NO:	6
LOCATION:	N. BUCKEYE TANK BATTERY	DATE SAMPLED:	12/10/2024
		TIME SAMPLED:	12:45 PM
		DATE RECEIVED:	12/10/2024
	MI	TIME RECEIVED:	3:55 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-13D	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	76	1.0	ug/L (PPB)	MR		12/11/2024	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.
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 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-10D

GTA PROJECT NO: 121024-10
 GTA SAMPLE NO: 7
 DATE SAMPLED: 12/10/2024
 TIME SAMPLED: 1:05 PM
 DATE RECEIVED: 12/10/2024
 TIME RECEIVED: 3:55 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	110	1.0	ug/L (PPB)	MR		12/11/2024	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-4D

GTA PROJECT NO: 121024-10
 GTA SAMPLE NO: 8
 DATE SAMPLED: 12/10/2024
 TIME SAMPLED: 1:40 PM
 DATE RECEIVED: 12/10/2024
 TIME RECEIVED: 3:55 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	270	10	ug/L (PPB)	MR		12/11/2024	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

GTA PROJECT NO: 121024-10
 GTA SAMPLE NO: 1
 DATE SAMPLED: 12/10/2024
 TIME SAMPLED: 11:00 AM
 DATE RECEIVED: 12/10/2024
 TIME RECEIVED: 3:55 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 CHLORIDE EPA 300.0	16,000	1,000	mg/L (PPM)	KC/TR	12/13/2024	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: 121024-10
 GTA SAMPLE NO: 2
 DATE SAMPLED: 12/10/2024
 TIME SAMPLED: 11:25 AM
 DATE RECEIVED: 12/10/2024
 TIME RECEIVED: 3:55 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	35,000	1,000	mg/L (PPM)	KC/TR	12/13/2024	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: 121024-10
 GTA SAMPLE NO: 3
 DATE SAMPLED: 12/10/2024
 TIME SAMPLED: 11:50 AM
 DATE RECEIVED: 12/10/2024
 TIME RECEIVED: 3:55 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 CHLORIDE EPA 300.0	55,000	2,000	mg/L (PPM)	KC/TR	12/13/2024	WATER

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



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

GTA PROJECT NO: 121024-10
GTA SAMPLE NO: 4
DATE SAMPLED: 12/10/2024
TIME SAMPLED: 1:35 PM
DATE RECEIVED: 12/10/2024
TIME RECEIVED: 3:55 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	ND	10	mg/L (PPM)	KC/TR	12/13/2024	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: 121024-10
 GTA SAMPLE NO: 5
 DATE SAMPLED: 12/10/2024
 TIME SAMPLED: 12:20 PM
 DATE RECEIVED: 12/10/2024
 TIME RECEIVED: 3:55 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-11D	7,600	1,000	mg/L (PPM)	KC/TR	12/13/2024	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: 121024-10
 GTA SAMPLE NO: 6
 DATE SAMPLED: 12/10/2024
 TIME SAMPLED: 12:45 PM
 DATE RECEIVED: 12/10/2024
 TIME RECEIVED: 3:55 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	CHLORIDE EPA 300.0	47,000	2,000	mg/L (PPM)	KC/TR	12/13/2024	WATER

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



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

GTA PROJECT NO: 121024-10
GTA SAMPLE NO: 7
DATE SAMPLED: 12/10/2024
TIME SAMPLED: 1:05 PM
DATE RECEIVED: 12/10/2024
TIME RECEIVED: 3:55 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-10D CHLORIDE EPA 300.0	37,000	2,000	mg/L (PPM)	KC/TR	12/13/2024	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: 121024-10
 GTA SAMPLE NO: 8
 DATE SAMPLED: 12/10/2024
 TIME SAMPLED: 1:40 PM
 DATE RECEIVED: 12/10/2024
 TIME RECEIVED: 3:55 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-4D	CHLORIDE EPA 300.0	18,000	1,000	mg/L (PPM)	KC/TR	12/13/2024	WATER

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

