



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: 2020704017.01
GTA ProjNo: 102521-10

Site Addr: ST. HELEN CTB

Sampled By: JOSHUA GERRIE/GCES
Date Rec: 10/25/2021
Time Rec: 3:40 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-2D	10/25/2021		WATER
2	MW-5	10/25/2021		WATER
3	MW-6	10/25/2021		WATER
4	MW-7S	10/25/2021		WATER
5	MW-7D	10/25/2021		WATER
6	MW-8	10/25/2021		WATER
7	MW-9	10/25/2021		WATER
8	MW-10	10/25/2021		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: 2020704017.01
LOCATION: ST. HELEN CTB
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-2D
GTA PROJECT NO: 102521-10
GTA SAMPLE NO: 1
DATE SAMPLED: 10/25/2021
TIME SAMPLED:
DATE RECEIVED: 10/25/2021
TIME RECEIVED: 3:40 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		10/27/2021	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: 2020704017.01
 LOCATION: ST. HELEN CTB
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-5

GTA PROJECT NO: 102521-10
 GTA SAMPLE NO: 2
 DATE SAMPLED: 10/25/2021
 TIME SAMPLED:
 DATE RECEIVED: 10/25/2021
 TIME RECEIVED: 3:40 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		10/27/2021	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: 2020704017.01
 LOCATION: ST. HELEN CTB
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-6

GTA PROJECT NO: 102521-10
 GTA SAMPLE NO: 3
 DATE SAMPLED: 10/25/2021
 TIME SAMPLED:
 DATE RECEIVED: 10/25/2021
 TIME RECEIVED: 3:40 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	1.1	1.0	ug/L (PPB)	MR		10/27/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	1.4	1.0					
Xylene(Total)	25	3.0					
1,2,4-Trimethylbenzene	9.2	1.0					
1,3,5-Trimethylbenzene	2.0	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2020704017.01
 LOCATION: ST. HELEN CTB
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-7S

GTA PROJECT NO: 102521-10
 GTA SAMPLE NO: 4
 DATE SAMPLED: 10/25/2021
 TIME SAMPLED:
 DATE RECEIVED: 10/25/2021
 TIME RECEIVED: 3:40 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		10/27/2021	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	20	3.0					
1,2,4-Trimethylbenzene	4.5	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: 2020704017.01
 LOCATION: ST. HELEN CTB
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-7D

GTA PROJECT NO: 102521-10
 GTA SAMPLE NO: 5
 DATE SAMPLED: 10/25/2021
 TIME SAMPLED:
 DATE RECEIVED: 10/25/2021
 TIME RECEIVED: 3:40 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		10/27/2021	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: 2020704017.01
 LOCATION: ST. HELEN CTB
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-8

GTA PROJECT NO: 102521-10
 GTA SAMPLE NO: 6
 DATE SAMPLED: 10/25/2021
 TIME SAMPLED:
 DATE RECEIVED: 10/25/2021
 TIME RECEIVED: 3:40 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		10/27/2021	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: 2020704017.01
 LOCATION: ST. HELEN CTB
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-9

GTA PROJECT NO: 102521-10
 GTA SAMPLE NO: 7
 DATE SAMPLED: 10/25/2021
 TIME SAMPLED:
 DATE RECEIVED: 10/25/2021
 TIME RECEIVED: 3:40 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		10/27/2021	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
 PROJECT NO: 2020704017.01
 LOCATION: ST. HELEN CTB
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-10

GTA PROJECT NO: 102521-10
 GTA SAMPLE NO: 8
 DATE SAMPLED: 10/25/2021
 TIME SAMPLED:
 DATE RECEIVED: 10/25/2021
 TIME RECEIVED: 3:40 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		10/27/2021	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: 2020704017.01
LOCATION: ST. HELEN CTB

GTA PROJECT NO: 102521-10
GTA SAMPLE NO: 1
DATE SAMPLED: 10/25/2021
TIME SAMPLED:
DATE RECEIVED: 10/25/2021
TIME RECEIVED: 3:40 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</u>
	SAMPLE ID: MW-2D CHLORIDE EPA 300.0	150	10	mg/L (PPM)	TR	10/28/2021	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: 2020704017.01
 LOCATION: ST. HELEN CTB

GTA PROJECT NO: 102521-10
 GTA SAMPLE NO: 2
 DATE SAMPLED: 10/25/2021
 TIME SAMPLED:
 DATE RECEIVED: 10/25/2021
 TIME RECEIVED: 3:40 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</u>
SAMPLE ID: MW-5	CHLORIDE EPA 300.0	34	10	mg/L (PPM)	TR	10/28/2021	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: 2020704017.01
 LOCATION: ST. HELEN CTB

GTA PROJECT NO: 102521-10
 GTA SAMPLE NO: 3
 DATE SAMPLED: 10/25/2021
 TIME SAMPLED:
 DATE RECEIVED: 10/25/2021
 TIME RECEIVED: 3:40 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</u>
SAMPLE ID: MW-6	CHLORIDE EPA 300.0	49	10	mg/L (PPM)	TR	10/28/2021	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: 2020704017.01
 LOCATION: ST. HELEN CTB

GTA PROJECT NO: 102521-10
 GTA SAMPLE NO: 4
 DATE SAMPLED: 10/25/2021
 TIME SAMPLED:
 DATE RECEIVED: 10/25/2021
 TIME RECEIVED: 3:40 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</u>
SAMPLE ID: MW-7S	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR	10/28/2021	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: 2020704017.01
 LOCATION: ST. HELEN CTB
 MI
 SAMPLED BY: JOSHUA GERRIE/GCES

GTA PROJECT NO: 102521-10
 GTA SAMPLE NO: 5
 DATE SAMPLED: 10/25/2021
 TIME SAMPLED:
 DATE RECEIVED: 10/25/2021
 TIME RECEIVED: 3:40 PM

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</u>
SAMPLE ID: MW-7D	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR	10/28/2021	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: 2020704017.01
 LOCATION: ST. HELEN CTB

GTA PROJECT NO: 102521-10
 GTA SAMPLE NO: 6
 DATE SAMPLED: 10/25/2021
 TIME SAMPLED:
 DATE RECEIVED: 10/25/2021
 TIME RECEIVED: 3:40 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</u>
SAMPLE ID: MW-8	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR	10/28/2021	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: 2020704017.01
 LOCATION: ST. HELEN CTB
 MI
 SAMPLED BY: JOSHUA GERRIE/GCES

GTA PROJECT NO: 102521-10
 GTA SAMPLE NO: 7
 DATE SAMPLED: 10/25/2021
 TIME SAMPLED:
 DATE RECEIVED: 10/25/2021
 TIME RECEIVED: 3:40 PM

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</u>
SAMPLE ID: MW-9	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR	10/28/2021	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: 2020704017.01
 LOCATION: ST. HELEN CTB

GTA PROJECT NO: 102521-10
 GTA SAMPLE NO: 8
 DATE SAMPLED: 10/25/2021
 TIME SAMPLED:
 DATE RECEIVED: 10/25/2021
 TIME RECEIVED: 3:40 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</u>
SAMPLE ID: MW-10	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR	10/28/2021	WATER

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

CHAIN OF CUSTODY

PROJECT NUMBER 2020704017.01	SITE NAME/ADDRESS St. Helen CTB	COMPANY/NAME Miller Energy Co.
SAMPLED BY Joshua Gervie	COMPANY Gosling Czupak	GTA PROJECT # 102521-10

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-2D	10-25-21		GW	BTEX +4 & Chloride
2	MW-5	↓	↓	↓	↓
3	MW-6				
4	MW-7s				
5	MW-7d				
6	MW-8				
7	MW-9				
8	MW-10				

BILL TO: Miller Energy Co.	TempRec: <input type="checkbox"/> 1.30C	On Ice? <input checked="" type="checkbox"/> <input type="checkbox"/>	REPORT TO: Eric Vincke - GCES
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RELEASED BY <i>[Signature]</i>	DATE/TIME 10-25-21/15:40	RECEIVED BY <i>[Signature]</i>	DATE/TIME 10/25/21 15:40
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REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS