

**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: 052521-6

Site Addr: NORTH BUCKEYE FACILITY

Sampled By: PETER KALLIOINEN/GCES

Date Rec: 5/25/2021

Time Rec: 10:10 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-11D	5/21/2021	1:49 PM	WATER
2	MW-11S	5/21/2021	2:16 PM	WATER
3	MW-12D	5/24/2021	10:51 AM	WATER
4	MW-13D	5/24/2021	1:12 PM	WATER
5	MW-14D	5/24/2021	3:32 PM	WATER
6	MW-15D	5/24/2021	5:45 PM	WATER
7	MW-16	5/24/2021	7:00 PM	WATER
8	MW-13D (34')	5/24/2021	12:40 PM	SOIL
9	MW-15D (32.5')	5/24/2021	5:15 PM	SOIL

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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830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: MILLER ENERGY COMPANY II, LLC

PROJECT NO: 2020704011.01

LOCATION: NORTH BUCKEYE FACILITY

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-11D

GTA PROJECT NO: 052521-6

GTA SAMPLE NO: 1

DATE SAMPLED: 5/21/2021

TIME SAMPLED: 1:49 PM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

SAMPLED BY: PETER KALLIOINEN/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	37	1.0	ug/L (PPB)	MR		5/25/2021	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: 2020704011.01

LOCATION: NORTH BUCKEYE FACILITY

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-11S

GTA PROJECT NO: 052521-6

GTA SAMPLE NO: 2

DATE SAMPLED: 5/21/2021

TIME SAMPLED: 2:16 PM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

SAMPLED BY: PETER KALLIOINEN/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		5/25/2021	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: 2020704011.01

LOCATION: NORTH BUCKEYE FACILITY

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-12D

GTA PROJECT NO: 052521-6

GTA SAMPLE NO: 3

DATE SAMPLED: 5/24/2021

TIME SAMPLED: 10:51 AM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

SAMPLED BY: PETER KALLIOINEN/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		5/25/2021	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: 2020704011.01

LOCATION: NORTH BUCKEYE FACILITY

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-13D

GTA PROJECT NO: 052521-6

GTA SAMPLE NO: 4

DATE SAMPLED: 5/24/2021

TIME SAMPLED: 1:12 PM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

SAMPLED BY: PETER KALLIOINEN/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	79	1.0	ug/L (PPB)	MR		5/25/2021	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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PH: 231-929-0905

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COMPANY: MILLER ENERGY COMPANY II, LLC

PROJECT NO: 2020704011.01

LOCATION: NORTH BUCKEYE FACILITY

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-14D

GTA PROJECT NO: 052521-6

GTA SAMPLE NO: 5

DATE SAMPLED: 5/24/2021

TIME SAMPLED: 3:32 PM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

SAMPLED BY: PETER KALLIOINEN/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	9.8	1.0	ug/L (PPB)	MR		5/25/2021	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

COMPANY: MILLER ENERGY COMPANY II, LLC

PROJECT NO: 2020704011.01

LOCATION: NORTH BUCKEYE FACILITY

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-15D

GTA PROJECT NO: 052521-6

GTA SAMPLE NO: 6

DATE SAMPLED: 5/24/2021

TIME SAMPLED: 5:45 PM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

SAMPLED BY: PETER KALLIOINEN/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	10	1.0	ug/L (PPB)	MR		5/25/2021	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

COMPANY: MILLER ENERGY COMPANY II, LLC

GTA PROJECT NO: 052521-6

PROJECT NO: 2020704011.01

GTA SAMPLE NO: 7

LOCATION: NORTH BUCKEYE FACILITY

DATE SAMPLED: 5/24/2021

TIME SAMPLED: 7:00 PM

MI

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

SAMPLE MATRIX: WATER

SAMPLE ID: MW-16

SAMPLED BY: PETER KALLIOINEN/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		5/25/2021	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: 2020704011.01

LOCATION: NORTH BUCKEYE FACILITY

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: MW-13D (34')

GTA PROJECT NO: 052521-6

GTA SAMPLE NO: 8

DATE SAMPLED: 5/24/2021

TIME SAMPLED: 12:40 PM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

SAMPLED BY: PETER KALLIOINEN/GCES

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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	50	ug/Kg (PPB) MR		5/24/2021	5/25/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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

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COMPANY: MILLER ENERGY COMPANY II, LLC

PROJECT NO: 2020704011.01

LOCATION: NORTH BUCKEYE FACILITY

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: MW-15D (32.5')

GTA PROJECT NO: 052521-6

GTA SAMPLE NO: 9

DATE SAMPLED: 5/24/2021

TIME SAMPLED: 5:15 PM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

SAMPLED BY: PETER KALLIOINEN/GCES

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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	50	ug/Kg (PPB) MR		5/24/2021	5/25/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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

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LOD = LIMIT OF DETECTION

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COMPANY: MILLER ENERGY COMPANY II, LLC

GTA PROJECT NO: 052521-6

GTA SAMPLE NO: 1

PROJECT NO: 2020704011.01

LOCATION: NORTH BUCKEYE FACILITY

DATE SAMPLED: 5/21/2021

TIME SAMPLED: 1:49 PM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

MI

SAMPLED BY: PETER KALLIOINEN/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-11D						
	CHLORIDE EPA 300.0	9,600	1,000	mg/L (PPM)	TR	5/26/2021	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

GTA PROJECT NO: 052521-6

PROJECT NO: 2020704011.01

GTA SAMPLE NO: 2

LOCATION: NORTH BUCKEYE FACILITY

DATE SAMPLED: 5/21/2021

TIME SAMPLED: 2:16 PM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

MI

SAMPLED BY: PETER KALLIOINEN/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-11S						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR	5/26/2021	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

**INDEPENDENT TESTING LAB**

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COMPANY: MILLER ENERGY COMPANY II, LLC

PROJECT NO: 2020704011.01

LOCATION: NORTH BUCKEYE FACILITY

GTA PROJECT NO: 052521-6

GTA SAMPLE NO: 3

DATE SAMPLED: 5/24/2021

TIME SAMPLED: 10:51 AM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

SAMPLED BY: MI
PETER KALLIOINEN/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-12D						
	CHLORIDE EPA 300.0	15,000	1,000	mg/L (PPM)	TR	5/26/2021	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

GTA PROJECT NO: 052521-6

PROJECT NO: 2020704011.01

GTA SAMPLE NO: 4

LOCATION: NORTH BUCKEYE FACILITY

DATE SAMPLED: 5/24/2021

TIME SAMPLED: 1:12 PM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

MI

SAMPLED BY: PETER KALLIOINEN/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-13D						
	CHLORIDE EPA 300.0	39,000	2,000	mg/L (PPM)	TR	5/26/2021	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

GTA PROJECT NO: 052521-6

PROJECT NO: 2020704011.01

GTA SAMPLE NO: 5

LOCATION: NORTH BUCKEYE FACILITY

DATE SAMPLED: 5/24/2021

TIME SAMPLED: 3:32 PM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

MI

SAMPLED BY: PETER KALLIOINEN/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-14D						
	CHLORIDE EPA 300.0	27,000	1,000	mg/L (PPM)	TR	5/26/2021	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: NORTH BUCKEYE FACILITY

GTA PROJECT NO: 052521-6

GTA SAMPLE NO: 6

DATE SAMPLED: 5/24/2021

TIME SAMPLED: 5:45 PM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

SAMPLED BY: MI
PETER KALLIOINEN/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-15D						
	CHLORIDE EPA 300.0	51,000	2,000	mg/L (PPM)	TR	5/26/2021	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

GTA PROJECT NO: 052521-6

PROJECT NO: 2020704011.01

GTA SAMPLE NO: 7

LOCATION: NORTH BUCKEYE FACILITY

DATE SAMPLED: 5/24/2021

TIME SAMPLED: 7:00 PM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

MI

SAMPLED BY: PETER KALLIOINEN/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-16

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample

ND

10

mg/L (PPM)

TR

5/26/2021

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: 2020704011.01
LOCATION: NORTH BUCKEYE FACILITY
MI
SAMPLED BY: PETER KALLIOINEN/GCES

GTA PROJECT NO: 052521-6
GTA SAMPLE NO: 8
DATE SAMPLED: 5/24/2021
TIME SAMPLED: 12:40 PM
DATE RECEIVED: 5/25/2021
TIME RECEIVED: 10:10 AM

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-13D (34')						
	CHLORIDE EPA 300.0	17,000	120	mg/Kg (PPM)	TR/AS	5/25/2021	SOIL

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

COMPANY: MILLER ENERGY COMPANY II, LLC

GTA PROJECT NO: 052521-6

PROJECT NO: 2020704011.01

GTA SAMPLE NO: 9

LOCATION: NORTH BUCKEYE FACILITY

DATE SAMPLED: 5/24/2021

TIME SAMPLED: 5:15 PM

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

MI

SAMPLED BY: PETER KALLIOINEN/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-15D (32.5')						
	CHLORIDE EPA 300.0	3,300	110	mg/Kg (PPM)	TR/AS	5/25/2021	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

**INDEPENDENT TESTING LAB**

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COMPANY: MILLER ENERGY COMPANY II, LLC

NAME:

PROJECT NO: 2020704011.01

LOCATION: NORTH BUCKEYE FACILITY

MI

GTA PROJECT NO: 052521-

SAMPLED BY: PETER KALLIOINEN/GCES

DATE SAMPLED: 5/24/2021

TIME SAMPLED: 12:40 PM

SAMPLE MATRIX: SOIL

DATE RECEIVED: 5/25/2021

TIME RECEIVED: 10:10 AM

MOISTURE**No: Analysis**SAMPLE ID: MW-13D (34')
% MOISTURE EPA 3550CSAMPLE ID: MW-15D (32.5')
% MOISTURE EPA 3550C

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
18	0.050	% OF SAMPLE	AS	5/25/2021
20	0.050	% OF SAMPLE	AS	5/25/2021

