



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: 2021704010.01
GTA ProjNo: 081321-2

Site Addr: FRANK NEITZKE SPILL
Sampled By: LD/PK - MECII/GCES
Date Rec: 8/13/2021
Time Rec: 8:47 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SB-N-2 (1')	8/12/2021	3:30 PM	SOIL
2	SB-N-2 (4')	8/12/2021	3:22 PM	SOIL
3	SB-N-3 (4')	8/12/2021	4:28 PM	SOIL
4	GS-N-7 (4')	8/12/2021	4:40 PM	SOIL
5	BACKGROUND	8/12/2021	2:24 PM	SOIL
6	BUSH DRAIN UPSTREAM	8/12/2021	5:28 AM	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
Ph: 231-929-0905
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com



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	GTA PROJECT NO:	081321-2
PROJECT NO:	2021704010.01	GTA SAMPLE NO:	1
LOCATION:	FRANK NEITZKE SPILL	DATE SAMPLED:	8/12/2021
		TIME SAMPLED:	3:30 PM
		DATE RECEIVED:	8/13/2021
	MI	TIME RECEIVED:	8:47 AM
SAMPLE MATRIX:	SOIL	SAMPLED BY:	LD/PK - MECII/GCES
SAMPLE ID:	SB-N-2 (1')	**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	160	50	ug/Kg (PPB)	MR	8/12/2021	8/13/2021	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.
 ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION



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

PROJECT NO: 2021704010.01

LOCATION: FRANK NEITZKE SPILL

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-N-2 (4')

GTA PROJECT NO: 081321-2

GTA SAMPLE NO: 2

DATE SAMPLED: 8/12/2021

TIME SAMPLED: 3:22 PM

DATE RECEIVED: 8/13/2021

TIME RECEIVED: 8:47 AM

SAMPLED BY: LD/PK - MECII/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	380	50	ug/Kg (PPB)	MR	8/12/2021	8/13/2021	EPA 5035A
Toluene	120	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.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

COMPANY: MILLER ENERGY COMPANY II, LLC
PROJECT NO: 2021704010.01
LOCATION: FRANK NEITZKE SPILL
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: SB-N-3 (4')

GTA PROJECT NO: 081321-2
GTA SAMPLE NO: 3
DATE SAMPLED: 8/12/2021
TIME SAMPLED: 4:28 PM
DATE RECEIVED: 8/13/2021
TIME RECEIVED: 8:47 AM

SAMPLED BY: LD/PK - MECII/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	8/12/2021	8/13/2021	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.
ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION

COMPANY: MILLER ENERGY COMPANY II, LLC
 PROJECT NO: 2021704010.01
 LOCATION: FRANK NEITZKE SPILL
 MI
 SAMPLE MATRIX: SOIL
 SAMPLE ID: GS-N-7 (4')

GTA PROJECT NO: 081321-2
 GTA SAMPLE NO: 4
 DATE SAMPLED: 8/12/2021
 TIME SAMPLED: 4:40 PM
 DATE RECEIVED: 8/13/2021
 TIME RECEIVED: 8:47 AM

SAMPLED BY: LD/PK - MECII/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	8/12/2021	8/13/2021	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.
 ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION



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

PROJECT NO: 2021704010.01

LOCATION: FRANK NEITZKE SPILL

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: BACKGROUND

GTA PROJECT NO: 081321-2

GTA SAMPLE NO: 5

DATE SAMPLED: 8/12/2021

TIME SAMPLED: 2:24 PM

DATE RECEIVED: 8/13/2021

TIME RECEIVED: 8:47 AM

SAMPLED BY: LD/PK - MECII/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	8/12/2021	8/13/2021	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.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION



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

PROJECT NO: 2021704010.01

LOCATION: FRANK NEITZKE SPILL

MI

SAMPLE MATRIX: WATER

SAMPLE ID: BUSH DRAIN UPSTREAM

GTA PROJECT NO: 081321-2

GTA SAMPLE NO: 6

DATE SAMPLED: 8/12/2021

TIME SAMPLED: 5:28 AM

DATE RECEIVED: 8/13/2021

TIME RECEIVED: 8:47 AM

SAMPLED BY: LD/PK - MECII/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		8/13/2021	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: 2021704010.01
 LOCATION: FRANK NEITZKE SPILL

GTA PROJECT NO: 081321-2
 GTA SAMPLE NO: 1
 DATE SAMPLED: 8/12/2021
 TIME SAMPLED: 3:30 PM
 DATE RECEIVED: 8/13/2021
 TIME RECEIVED: 8:47 AM

MI
 SAMPLED BY: LD/PK - MECII/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: SB-N-2 (1')						
	CHLORIDE EPA 300.0	1,700	170	mg/Kg (PPM)	KC	8/13/2021	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
 PROJECT NO: 2021704010.01
 LOCATION: FRANK NEITZKE SPILL

GTA PROJECT NO: 081321-2
 GTA SAMPLE NO: 2

DATE SAMPLED: 8/12/2021
 TIME SAMPLED: 3:22 PM
 DATE RECEIVED: 8/13/2021
 TIME RECEIVED: 8:47 AM

MI
 SAMPLED BY: LD/PK - MECII/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: SB-N-2 (4') CHLORIDE EPA 300.0	2,400	110	mg/Kg (PPM)	KC	8/13/2021	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
 PROJECT NO: 2021704010.01
 LOCATION: FRANK NEITZKE SPILL

GTA PROJECT NO: 081321-2
 GTA SAMPLE NO: 3
 DATE SAMPLED: 8/12/2021
 TIME SAMPLED: 4:28 PM
 DATE RECEIVED: 8/13/2021
 TIME RECEIVED: 8:47 AM

SAMPLED BY: MI
 LD/PK - MECII/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: SB-N-3 (4') CHLORIDE EPA 300.0	130	110	mg/Kg (PPM)	KC	8/13/2021	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
 PROJECT NO: 2021704010.01
 LOCATION: FRANK NEITZKE SPILL

GTA PROJECT NO: 081321-2
 GTA SAMPLE NO: 4
 DATE SAMPLED: 8/12/2021
 TIME SAMPLED: 4:40 PM
 DATE RECEIVED: 8/13/2021
 TIME RECEIVED: 8:47 AM

MI
 SAMPLED BY: LD/PK - MECII/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: GS-N-7 (4') CHLORIDE EPA 300.0	1,800	110	mg/Kg (PPM)	KC	8/13/2021	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
 PROJECT NO: 2021704010.01
 LOCATION: FRANK NEITZKE SPILL

GTA PROJECT NO: 081321-2
 GTA SAMPLE NO: 5
 DATE SAMPLED: 8/12/2021
 TIME SAMPLED: 2:24 PM
 DATE RECEIVED: 8/13/2021
 TIME RECEIVED: 8:47 AM

MI
 SAMPLED BY: LD/PK - MECII/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: BACKGROUND CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	LV	8/16/2021	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
 PROJECT NO: 2021704010.01
 LOCATION: FRANK NEITZKE SPILL

GTA PROJECT NO: 081321-2
 GTA SAMPLE NO: 6
 DATE SAMPLED: 8/12/2021
 TIME SAMPLED: 5:28 AM
 DATE RECEIVED: 8/13/2021
 TIME RECEIVED: 8:47 AM

MI
 SAMPLED BY: LD/PK - MECII/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: BUSH DRAIN UPSTREAM						
	CHLORIDE EPA 300.0	120	10	mg/L (PPM)	LV	8/18/2021	WATER

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



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:
PROJECT NO: 2021704010.01

LOCATION: FRANK NEITZKE SPILL

MI

GTA PROJECT NO: 081321-
SAMPLED BY: LD/PK - MECII/GCES

DATE SAMPLED: 8/12/2021
TIME SAMPLED: 3:30 PM
SAMPLE MATRIX: SOIL

DATE RECEIVED: 8/13/2021
TIME RECEIVED: 8:47 AM

MOISTURE

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
	SAMPLE ID: SB-N-2 (1')					
	% MOISTURE EPA 3550C	51	0.050	% OF SAMPLE	KC	8/13/2021
	SAMPLE ID: SB-N-2 (4')					
	% MOISTURE EPA 3550C	10	0.050	% OF SAMPLE	KC	8/13/2021
	SAMPLE ID: SB-N-3 (4')					
	% MOISTURE EPA 3550C	10	0.050	% OF SAMPLE	KC	8/13/2021
	SAMPLE ID: GS-N-7 (4')					
	% MOISTURE EPA 3550C	13	0.050	% OF SAMPLE	KC	8/13/2021
	SAMPLE ID: BACKGROUND					
	% MOISTURE EPA 3550C	11	0.050	% OF SAMPLE	AS	8/16/2021

