



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: LAMBDA ENERGY RESOURCES, LLC
Name:
ClientProj: 2018100104.01
GTA ProjNo: 040822-15

Site Addr: BEAR LAKE 13

Sampled By: PETER KALLIOINEN/GCES
Date Rec: 4/8/2022
Time Rec: 4:05 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	GS-1 (5')	4/8/2022		SOIL
2	GS-2 (2.5')	4/8/2022		SOIL
3	GS-4 (5')	4/8/2022		SOIL
4	GS-5 (5')	4/8/2022		SOIL
5	GS-7 (3')	4/8/2022		SOIL
6	MW-50	4/8/2022		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
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kirk@gtanalytical.com

COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100104.01
 LOCATION: BEAR LAKE 13
 MI
 SAMPLE MATRIX: SOIL
 SAMPLE ID: GS-1 (5')

GTA PROJECT NO: 040822-15
 GTA SAMPLE NO: 1
 DATE SAMPLED: 4/8/2022
 TIME SAMPLED:
 DATE RECEIVED: 4/8/2022
 TIME RECEIVED: 4:05 PM

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	4/8/2022	4/11/2022	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



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COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	040822-15
PROJECT NO:	2018100104.01	GTA SAMPLE NO:	2
LOCATION:	BEAR LAKE 13	DATE SAMPLED:	4/8/2022
		TIME SAMPLED:	
	MI	DATE RECEIVED:	4/8/2022
		TIME RECEIVED:	4:05 PM
SAMPLE MATRIX:	SOIL	SAMPLED BY:	PETER KALLIOINEN/GCES
SAMPLE ID:	GS-2 (2.5')	**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	4/8/2022	4/11/2022	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					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100104.01
 LOCATION: BEAR LAKE 13
 MI
 SAMPLE MATRIX: SOIL
 SAMPLE ID: GS-4 (5')
 GTA PROJECT NO: 040822-15
 GTA SAMPLE NO: 3
 DATE SAMPLED: 4/8/2022
 TIME SAMPLED:
 DATE RECEIVED: 4/8/2022
 TIME RECEIVED: 4:05 PM
 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	20,000	1,100	ug/Kg (PPB)	MR	4/8/2022	4/11/2022	EPA 5035A
Toluene	110,000	1,100					
Ethylbenzene	46,000	1,100					
Xylene(Total)	150,000	3,300					
1,2,4-Trimethylbenzene	97,000	1,100					
1,3,5-Trimethylbenzene	19,000	1,100					
Naphthalene	1,700	250					
2-Methylnaphthalene	34,000	250					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100104.01

LOCATION: BEAR LAKE 13

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: GS-5 (5')

GTA PROJECT NO: 040822-15

GTA SAMPLE NO: 4

DATE SAMPLED: 4/8/2022

TIME SAMPLED:

DATE RECEIVED: 4/8/2022

TIME RECEIVED: 4:05 PM

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	4/8/2022	4/11/2022	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					

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LOD = LIMIT OF DETECTION

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100104.01
LOCATION: BEAR LAKE 13
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: GS-7 (3')

GTA PROJECT NO: 040822-15
GTA SAMPLE NO: 5
DATE SAMPLED: 4/8/2022
TIME SAMPLED:
DATE RECEIVED: 4/8/2022
TIME RECEIVED: 4:05 PM

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	140	50	ug/Kg (PPB)	MR	4/8/2022	4/11/2022	EPA 5035A
Toluene	230	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					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100104.01
 LOCATION: BEAR LAKE 13
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-50

GTA PROJECT NO: 040822-15
 GTA SAMPLE NO: 6
 DATE SAMPLED: 4/8/2022
 TIME SAMPLED:
 DATE RECEIVED: 4/8/2022
 TIME RECEIVED: 4:05 PM

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 Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	4,100	25	ug/L (PPB)	MR		4/12/2022	EPA 5035A
Toluene	3,100	25					
Ethylbenzene	220	25					
Xylene(Total)	620	75					
1,2,4-Trimethylbenzene	34	1.0					
1,3,5-Trimethylbenzene	4.0	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

NAME:
PROJECT NO: 2018100104.01

LOCATION: BEAR LAKE 13

MI

GTA PROJECT NO: 040822-
SAMPLED BY: PETER KALLIOINEN/GCES

DATE SAMPLED: 4/8/2022

SAMPLE MATRIX: SOIL

DATE RECEIVED: 4/8/2022
TIME RECEIVED: 4:05 PM

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: GS-1 (5') % MOISTURE EPA 3550C	10	0.050	% OF SAMPLE	AS	4/8/2022
SAMPLE ID: GS-2 (2.5') % MOISTURE EPA 3550C	7.6	0.050	% OF SAMPLE	AS	4/8/2022
SAMPLE ID: GS-4 (5') % MOISTURE EPA 3550C	12	0.050	% OF SAMPLE	AS	4/8/2022
SAMPLE ID: GS-5 (5') % MOISTURE EPA 3550C	16	0.050	% OF SAMPLE	AS	4/8/2022
SAMPLE ID: GS-7 (3') % MOISTURE EPA 3550C	7.9	0.050	% OF SAMPLE	AS	4/8/2022

