



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: 2018100104.03
GTA ProjNo: 050323-5

Site Addr: BEAR LAKE 13

Sampled By: ERIC VINCKE/GCES
Date Rec: 5/3/2023
Time Rec: 12:40 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	FLR-1	5/3/2023	8:50 AM	WATER
2	SW-1	5/3/2023	9:00 AM	SOIL
3	SW-2	5/3/2023	9:03 AM	SOIL
4	SW-3	5/3/2023	9:18 AM	SOIL
5	SW-4	5/3/2023	9:50 AM	SOIL
6	SW-5	5/3/2023	10:38 AM	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
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100104.03
LOCATION: BEAR LAKE 13
MI
SAMPLE MATRIX: WATER
SAMPLE ID: FLR-1

GTA PROJECT NO: 050323-5
GTA SAMPLE NO: 1
DATE SAMPLED: 5/3/2023
TIME SAMPLED: 8:50 AM
DATE RECEIVED: 5/3/2023
TIME RECEIVED: 12:40 PM

SAMPLED BY: ERIC VINCKE/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	2,000	50	ug/L (PPB)	MR		5/7/2023	EPA 5030B
Toluene	5,300	50					
Ethylbenzene	700	50					
Xylene(Total)	2,700	150					
1,2,4-Trimethylbenzene	380	50					
1,3,5-Trimethylbenzene	81	5.0					
Naphthalene	9.2	5.0					
2-Methylnaphthalene	7.1	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: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100104.03

LOCATION: BEAR LAKE 13

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-1

GTA PROJECT NO: 050323-5

GTA SAMPLE NO: 2

DATE SAMPLED: 5/3/2023

TIME SAMPLED: 9:00 AM

DATE RECEIVED: 5/3/2023

TIME RECEIVED: 12:40 PM

SAMPLED BY: ERIC VINCKE/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	5/3/2023	5/7/2023	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: 2018100104.03

LOCATION: BEAR LAKE 13

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-2

GTA PROJECT NO: 050323-5

GTA SAMPLE NO: 3

DATE SAMPLED: 5/3/2023

TIME SAMPLED: 9:03 AM

DATE RECEIVED: 5/3/2023

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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	5/3/2023	5/7/2023	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: 2018100104.03

LOCATION: BEAR LAKE 13

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-3

GTA PROJECT NO: 050323-5

GTA SAMPLE NO: 4

DATE SAMPLED: 5/3/2023

TIME SAMPLED: 9:18 AM

DATE RECEIVED: 5/3/2023

TIME RECEIVED: 12:40 PM

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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	5/3/2023	5/7/2023	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: 2018100104.03

LOCATION: BEAR LAKE 13

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-4

GTA PROJECT NO: 050323-5

GTA SAMPLE NO: 5

DATE SAMPLED: 5/3/2023

TIME SAMPLED: 9:50 AM

DATE RECEIVED: 5/3/2023

TIME RECEIVED: 12:40 PM

SAMPLED BY: ERIC VINCKE/GCES

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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	5/3/2023	5/7/2023	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: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100104.03

LOCATION: BEAR LAKE 13

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-5

GTA PROJECT NO: 050323-5

GTA SAMPLE NO: 6

DATE SAMPLED: 5/3/2023

TIME SAMPLED: 10:38 AM

DATE RECEIVED: 5/3/2023

TIME RECEIVED: 12:40 PM

SAMPLED BY: ERIC VINCKE/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	160	50	ug/Kg (PPB)	MR	5/3/2023	5/7/2023	EPA 5035A
Toluene	210	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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100104.03
 LOCATION: BEAR LAKE 13

GTA PROJECT NO: 050323-5
 GTA SAMPLE NO: 2

DATE SAMPLED: 5/3/2023
 TIME SAMPLED: 9:00 AM
 DATE RECEIVED: 5/3/2023
 TIME RECEIVED: 12:40 PM

MI
 SAMPLED BY: ERIC VINCKE/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: SW-1	CHLORIDE EPA 300.0	300	98	mg/Kg (PPM)	KC/AS	5/7/2023	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100104.03
 LOCATION: BEAR LAKE 13

GTA PROJECT NO: 050323-5
 GTA SAMPLE NO: 3

DATE SAMPLED: 5/3/2023
 TIME SAMPLED: 9:03 AM
 DATE RECEIVED: 5/3/2023
 TIME RECEIVED: 12:40 PM

MI
 SAMPLED BY: ERIC VINCKE/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: SW-2	CHLORIDE EPA 300.0	300	97	mg/Kg (PPM)	KC/AS	5/7/2023	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100104.03
 LOCATION: BEAR LAKE 13

GTA PROJECT NO: 050323-5
 GTA SAMPLE NO: 4

DATE SAMPLED: 5/3/2023
 TIME SAMPLED: 9:18 AM
 DATE RECEIVED: 5/3/2023
 TIME RECEIVED: 12:40 PM

MI
 SAMPLED BY: ERIC VINCKE/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: SW-3	CHLORIDE EPA 300.0	420	110	mg/Kg (PPM)	KC/AS	5/7/2023	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100104.03
 LOCATION: BEAR LAKE 13

GTA PROJECT NO: 050323-5
 GTA SAMPLE NO: 5

DATE SAMPLED: 5/3/2023
 TIME SAMPLED: 9:50 AM
 DATE RECEIVED: 5/3/2023
 TIME RECEIVED: 12:40 PM

MI
 SAMPLED BY: ERIC VINCKE/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: SW-4 CHLORIDE EPA 300.0	290	93	mg/Kg (PPM)	KC/AS	5/7/2023	SOIL

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 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100104.03
 LOCATION: BEAR LAKE 13

GTA PROJECT NO: 050323-5
 GTA SAMPLE NO: 6

DATE SAMPLED: 5/3/2023
 TIME SAMPLED: 10:38 AM
 DATE RECEIVED: 5/3/2023
 TIME RECEIVED: 12:40 PM

MI
 SAMPLED BY: ERIC VINCKE/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: SW-5 CHLORIDE EPA 300.0	360	110	mg/Kg (PPM)	KC/AS	5/7/2023	SOIL

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GTA PROJECT NO: 050323-
SAMPLED BY: ERIC VINCKE/GCES

DATE SAMPLED: 5/3/2023

SAMPLE MATRIX: SOIL

DATE RECEIVED: 5/3/2023
TIME RECEIVED: 12:40 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: SW-1 % MOISTURE EPA 3550C	3.8	0.10	% OF SAMPLE	AS	5/3/2023
SAMPLE ID: SW-2 % MOISTURE EPA 3550C	5.5	0.10	% OF SAMPLE	AS	5/3/2023
SAMPLE ID: SW-3 % MOISTURE EPA 3550C	11	0.10	% OF SAMPLE	AS	5/3/2023
SAMPLE ID: SW-4 % MOISTURE EPA 3550C	6.0	0.10	% OF SAMPLE	AS	5/3/2023
SAMPLE ID: SW-5 % MOISTURE EPA 3550C	11	0.10	% OF SAMPLE	AS	5/3/2023

