



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: 2018100168.01
GTA ProjNo: 121223-9

Site Addr: JOHNSON-HILLIARD 7-26
Sampled By: JOSHUA GERRIE/GCES
Date Rec: 12/12/2023
Time Rec: 3:10 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-17I	12/11/2023		WATER
2	MW-12D	12/11/2023		WATER
3	MW-12S	12/11/2023		WATER
4	MW-13I	12/11/2023		WATER
5	MW-18	12/11/2023		WATER
6	MW-16	12/11/2023		WATER
7	MW-17	12/11/2023		WATER
8	MW-19	12/11/2023		WATER
9	MW-13D	12/11/2023		WATER
10	MW-11S	12/12/2023		WATER
11	MW-11I	12/12/2023		WATER
12	MW-20D	12/12/2023		WATER
13	MW-11D	12/12/2023		WATER
14	MW-2D	12/12/2023		WATER
15	MW-20I	12/12/2023		WATER
16	MW-1D (52')	12/12/2023		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



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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100168.01
 LOCATION: JOHNSON-HILLIARD 7-26
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-171

GTA PROJECT NO: 121223-9
 GTA SAMPLE NO: 1
 DATE SAMPLED: 12/11/2023
 TIME SAMPLED:
 DATE RECEIVED: 12/12/2023
 TIME RECEIVED: 3:10 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 Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		12/14/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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: 2018100168.01
 LOCATION: JOHNSON-HILLIARD 7-26
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-111

GTA PROJECT NO: 121223-9
 GTA SAMPLE NO: 11
 DATE SAMPLED: 12/12/2023
 TIME SAMPLED:
 DATE RECEIVED: 12/12/2023
 TIME RECEIVED: 3:10 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 Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		12/14/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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: 2018100168.01
 LOCATION: JOHNSON-HILLIARD 7-26
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-2D

GTA PROJECT NO: 121223-9
 GTA SAMPLE NO: 14
 DATE SAMPLED: 12/12/2023
 TIME SAMPLED:
 DATE RECEIVED: 12/12/2023
 TIME RECEIVED: 3:10 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 Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		12/14/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
 ND = NOT DETECTED, RESULT < LOD
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100168.01
 LOCATION: JOHNSON-HILLIARD 7-26
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-1D (52')

GTA PROJECT NO: 121223-9
 GTA SAMPLE NO: 16
 DATE SAMPLED: 12/12/2023
 TIME SAMPLED:
 DATE RECEIVED: 12/12/2023
 TIME RECEIVED: 3:10 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 Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		12/14/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
 ND = NOT DETECTED, RESULT < LOD
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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100168.01

LOCATION: JOHNSON-HILLIARD 7-26

SAMPLED BY: MI
JOSHUA GERRIE/GCES

GTA PROJECT NO: 121223-9

GTA SAMPLE NO: 1

DATE SAMPLED: 12/11/2023

TIME SAMPLED:

DATE RECEIVED: 12/12/2023

TIME RECEIVED: 3:10 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 Matrix</u>
SAMPLE ID: MW-171	CHLORIDE EPA 300.0	16	10	mg/L (PPM)	KC/TR	12/17/2023	WATER

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: 2018100168.01
 LOCATION: JOHNSON-HILLIARD 7-26

GTA PROJECT NO: 121223-9
 GTA SAMPLE NO: 2
 DATE SAMPLED: 12/11/2023
 TIME SAMPLED:
 DATE RECEIVED: 12/12/2023
 TIME RECEIVED: 3:10 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 Matrix</u>
SAMPLE ID: MW-12D	CHLORIDE EPA 300.0	21	10	mg/L (PPM)	KC/TR	12/17/2023	WATER

ND = NOT DETECTED, RESULT < LOD
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100168.01
 LOCATION: JOHNSON-HILLIARD 7-26

GTA PROJECT NO: 121223-9
 GTA SAMPLE NO: 3
 DATE SAMPLED: 12/11/2023
 TIME SAMPLED:
 DATE RECEIVED: 12/12/2023
 TIME RECEIVED: 3:10 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 Matrix</u>
SAMPLE ID: MW-12S	CHLORIDE EPA 300.0	23	10	mg/L (PPM)	KC/TR	12/17/2023	WATER

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: 2018100168.01
 LOCATION: JOHNSON-HILLIARD 7-26

GTA PROJECT NO: 121223-9
 GTA SAMPLE NO: 4
 DATE SAMPLED: 12/11/2023
 TIME SAMPLED:
 DATE RECEIVED: 12/12/2023
 TIME RECEIVED: 3:10 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 Matrix</u>
SAMPLE ID: MW-131	CHLORIDE EPA 300.0	85	10	mg/L (PPM)	KC/TR	12/17/2023	WATER

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: 2018100168.01
 LOCATION: JOHNSON-HILLIARD 7-26

GTA PROJECT NO: 121223-9
 GTA SAMPLE NO: 5
 DATE SAMPLED: 12/11/2023
 TIME SAMPLED:
 DATE RECEIVED: 12/12/2023
 TIME RECEIVED: 3:10 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 Matrix</u>
SAMPLE ID: MW-18	CHLORIDE EPA 300.0	83	10	mg/L (PPM)	KC/TR	12/17/2023	WATER

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: 2018100168.01
 LOCATION: JOHNSON-HILLIARD 7-26

GTA PROJECT NO: 121223-9
 GTA SAMPLE NO: 7
 DATE SAMPLED: 12/11/2023
 TIME SAMPLED:
 DATE RECEIVED: 12/12/2023
 TIME RECEIVED: 3:10 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 Matrix</u>
SAMPLE ID: MW-17	CHLORIDE EPA 300.0	140	10	mg/L (PPM)	KC/TR	12/17/2023	WATER

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: 2018100168.01
 LOCATION: JOHNSON-HILLIARD 7-26

GTA PROJECT NO: 121223-9
 GTA SAMPLE NO: 8
 DATE SAMPLED: 12/11/2023
 TIME SAMPLED:
 DATE RECEIVED: 12/12/2023
 TIME RECEIVED: 3:10 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 Matrix</u>
SAMPLE ID: MW-19	CHLORIDE EPA 300.0	590	10	mg/L (PPM)	KC/TR	12/17/2023	WATER

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: 2018100168.01
 LOCATION: JOHNSON-HILLIARD 7-26

GTA PROJECT NO: 121223-9
 GTA SAMPLE NO: 11
 DATE SAMPLED: 12/12/2023
 TIME SAMPLED:
 DATE RECEIVED: 12/12/2023
 TIME RECEIVED: 3:10 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 Matrix</u>
SAMPLE ID: MW-111	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	12/17/2023	WATER

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: 2018100168.01
 LOCATION: JOHNSON-HILLIARD 7-26

GTA PROJECT NO: 121223-9
 GTA SAMPLE NO: 12
 DATE SAMPLED: 12/12/2023
 TIME SAMPLED:
 DATE RECEIVED: 12/12/2023
 TIME RECEIVED: 3:10 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 Matrix</u>
SAMPLE ID: MW-20D	CHLORIDE EPA 300.0	24	10	mg/L (PPM)	KC/TR	12/17/2023	WATER

ND = NOT DETECTED, RESULT < LOD
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 PROJECT NO: 2018100168.01
 LOCATION: JOHNSON-HILLIARD 7-26

GTA PROJECT NO: 121223-9
 GTA SAMPLE NO: 13
 DATE SAMPLED: 12/12/2023
 TIME SAMPLED:
 DATE RECEIVED: 12/12/2023
 TIME RECEIVED: 3:10 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 Matrix</u>
SAMPLE ID: MW-11D	CHLORIDE EPA 300.0	130	10	mg/L (PPM)	KC/TR	12/17/2023	WATER

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: 2018100168.01
 LOCATION: JOHNSON-HILLIARD 7-26

GTA PROJECT NO: 121223-9
 GTA SAMPLE NO: 15
 DATE SAMPLED: 12/12/2023
 TIME SAMPLED:
 DATE RECEIVED: 12/12/2023
 TIME RECEIVED: 3:10 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 Matrix</u>
SAMPLE ID: MW-201	CHLORIDE EPA 300.0	310	10	mg/L (PPM)	KC/TR	12/17/2023	WATER

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 121223-9

PROJECT NO: 2018100168.01

GTA SAMPLE NO: 16

LOCATION: JOHNSON-HILLIARD 7-26

DATE SAMPLED: 12/12/2023

TIME SAMPLED:

DATE RECEIVED: 12/12/2023

TIME RECEIVED: 3:10 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 Matrix</u>
SAMPLE ID: MW-1D (52')	CHLORIDE EPA 300.0	530	10	mg/L (PPM)	KC/TR	12/17/2023	WATER

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

CHAIN OF CUSTODY

PROJECT NUMBER 2018100168.01	SITE NAME/ADDRESS Johnson-Hilliard 7-2C	COMPANY/NAME Lambda Energy Resources
SAMPLED BY Joshua Genie	COMPANY Gosling Czubak	GTA PROJECT # 121223-9

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-17I	12-11-23		GW	BTEX & Chloride
2	MW-12D	↓		↓	Chloride
3	MW-12S	↓		↓	↓
4	MW-13I	↓		↓	↓
5	MW-18	↓		↓	↓
6	MW-16	↓		↓	↓
7	MW-17	↓		↓	↓
8	MW-19	↓		↓	↓
9	MW-13D	↓		↓	↓
10	MW-11S	12-12-23			BTEX & Chloride
11	MW-11I	↓		↓	↓
12	MW-20D	↓		↓	↓
13	MW-11D	↓		↓	↓
14	MW-2D	↓		↓	↓
15	MW-20I	↓		↓	↓

BILL TO: Lambda Energy Resources	TempRec: <input type="checkbox"/> 3.1°C	On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	REPORT TO: Jeff Simsa
--	--	--	---------------------------------

RELEASED BY <i>[Signature]</i>	DATE/TIME 12-12-23 / 1510	RECEIVED BY <i>[Signature]</i>	DATE/TIME 12/12/23 1510
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REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS

