

**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: 092520-9

Site Addr: JOHNSON-HILLIARD 7-26

Sampled By: BRENDON RUPPEN/GCES

Date Rec: 9/25/2020

Time Rec: 3:07 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1D	9/25/2020	10:45 AM	WATER
2	MW-11S	9/25/2020	11:20 AM	WATER
3	MW-11D	9/25/2020	11:30 AM	WATER
4	MW-11I	9/25/2020	11:40 AM	WATER
5	MW-2D	9/25/2020	12:30 PM	WATER
6	MW-12S	9/25/2020	1:50 PM	WATER
7	MW-12D	9/25/2020	2:00 PM	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
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Fx: 231-929-0894
SP: 231-590-0291
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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
GTA PROJECT NO: 092520-9
GTA SAMPLE NO: 1
DATE SAMPLED: 9/25/2020
TIME SAMPLED: 10:45 AM
DATE RECEIVED: 9/25/2020
TIME RECEIVED: 3:07 PM
SAMPLED BY: BRENDON RUPPEN/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	ND	1.0	ug/L (PPB)	MR		9/26/2020	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-11S

GTA PROJECT NO: 092520-9
GTA SAMPLE NO: 2
DATE SAMPLED: 9/25/2020
TIME SAMPLED: 11:20 AM
DATE RECEIVED: 9/25/2020
TIME RECEIVED: 3:07 PM
SAMPLED BY: BRENDON RUPPEN/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	ND	1.0	ug/L (PPB)	MR		9/26/2020	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.
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PROJECT NO: 2018100168.01
LOCATION: JOHNSON-HILLIARD 7-26
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-11D

GTA PROJECT NO: 092520-9
GTA SAMPLE NO: 3
DATE SAMPLED: 9/25/2020
TIME SAMPLED: 11:30 AM
DATE RECEIVED: 9/25/2020
TIME RECEIVED: 3:07 PM
SAMPLED BY: BRENDON RUPPEN/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	2.3	1.0	ug/L (PPB)	MR		9/26/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100168.01
LOCATION: JOHNSON-HILLIARD 7-26
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-11I

GTA PROJECT NO: 092520-9
GTA SAMPLE NO: 4
DATE SAMPLED: 9/25/2020
TIME SAMPLED: 11:40 AM
DATE RECEIVED: 9/25/2020
TIME RECEIVED: 3:07 PM
SAMPLED BY: BRENDON RUPPEN/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	ND	1.0	ug/L (PPB)	MR		9/26/2020	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.
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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: 092520-9
GTA SAMPLE NO: 5
DATE SAMPLED: 9/25/2020
TIME SAMPLED: 12:30 PM
DATE RECEIVED: 9/25/2020
TIME RECEIVED: 3:07 PM
SAMPLED BY: BRENDON RUPPEN/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	ND	1.0	ug/L (PPB)	MR		9/26/2020	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 092520-9

PROJECT NO: 2018100168.01

GTA SAMPLE NO: 1

LOCATION: JOHNSON-HILLIARD 7-26

DATE SAMPLED: 9/25/2020

TIME SAMPLED: 10:45 AM

DATE RECEIVED: 9/25/2020

TIME RECEIVED: 3:07 PM

MI

SAMPLED BY: BRENDON RUPPEN/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-1D						
	CHLORIDE EPA 300.0	1,300	50	mg/L (PPM)	LV	9/29/2020	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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



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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100168.01
LOCATION: JOHNSON-HILLIARD 7-26
MI
SAMPLED BY: BRENDON RUPPEN/GCES

GTA PROJECT NO: 092520-9
GTA SAMPLE NO: 2
DATE SAMPLED: 9/25/2020
TIME SAMPLED: 11:20 AM
DATE RECEIVED: 9/25/2020
TIME RECEIVED: 3:07 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</u>
SAMPLE ID: MW-11S							
CHLORIDE EPA 300.0		390	10	mg/L (PPM)	LV	9/29/2020	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: 092520-9

GTA SAMPLE NO: 3

DATE SAMPLED: 9/25/2020

TIME SAMPLED: 11:30 AM

DATE RECEIVED: 9/25/2020

TIME RECEIVED: 3:07 PM

MI
SAMPLED BY: BRENDON RUPPEN/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	8,600	1,000	mg/L (PPM)	LV	9/29/2020	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
MI
SAMPLED BY: BRENDON RUPPEN/GCES

GTA PROJECT NO: 092520-9
GTA SAMPLE NO: 4
DATE SAMPLED: 9/25/2020
TIME SAMPLED: 11:40 AM
DATE RECEIVED: 9/25/2020
TIME RECEIVED: 3:07 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</u>
	SAMPLE ID: MW-111 CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	9/30/2020	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
MI
SAMPLED BY: BRENDON RUPPEN/GCES

GTA PROJECT NO: 092520-9
GTA SAMPLE NO: 5
DATE SAMPLED: 9/25/2020
TIME SAMPLED: 12:30 PM
DATE RECEIVED: 9/25/2020
TIME RECEIVED: 3:07 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</u>
	SAMPLE ID: MW-2D						
	CHLORIDE EPA 300.0	390	10	mg/L (PPM)	LV	9/30/2020	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
MI
SAMPLED BY: BRENDON RUPPEN/GCES

GTA PROJECT NO: 092520-9
GTA SAMPLE NO: 6
DATE SAMPLED: 9/25/2020
TIME SAMPLED: 1:50 PM
DATE RECEIVED: 9/25/2020
TIME RECEIVED: 3:07 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</u>
	SAMPLE ID: MW-12S						
	CHLORIDE EPA 300.0	280	10	mg/L (PPM)	LV	9/30/2020	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: 092520-9

PROJECT NO: 2018100168.01

GTA SAMPLE NO: 7

LOCATION: JOHNSON-HILLIARD 7-26

DATE SAMPLED: 9/25/2020

TIME SAMPLED: 2:00 PM

DATE RECEIVED: 9/25/2020

TIME RECEIVED: 3:07 PM

MI

SAMPLED BY: BRENDON RUPPEN/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	520	10	mg/L (PPM)	LV	9/30/2020	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

CHAIN OF CUSTODY

PROJECT NUMBER 7018100168	SITE NAME/ADDRESS Johnson Hilliard	COMPANY/NAME LER
SAMPLED BY Brendan P. Ruppen	COMPANY GCES	GTA PROJECT # 0912520-9

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW 10	9/25/20	10:45	GW	BTEX, chloride
2	MW 11S	↓	11:20		↓ ↓
3	MW 11D		11:30		
4	MW 11I		11:40		
5	MW 20		12:30		
6	MW 17S		1:50		chloride
7	MW 17D	↓	2:00		chloride

BILL TO: **LER**

REPORT TO:

RELEASED BY B. Ruppen	DATE/TIME 9/25/20 3:07	RECEIVED BY Alex	DATE/TIME 9/25/20 3:07

REQUESTED TAT ☒ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS