

**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: 2018100106

GTA ProjNo: 052522-13

Site Addr: HAYES 22

Sampled By: BRENDON RUPPEN/GCES

Date Rec: 5/25/2022

Time Rec: 3:05 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-134	5/25/2022	12:00 PM	WATER
2	RW-201	5/25/2022	12:15 PM	WATER
3	RW-202	5/25/2022	12:25 PM	WATER
4	MW-133	5/25/2022	12:35 PM	WATER
5	MW-135	5/25/2022	12:50 PM	WATER
6	MW-136	5/25/2022	1:05 PM	WATER
7	POSTLEWAIT RES	5/25/2022	1:30 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
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: 2018100106
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-134

GTA PROJECT NO: 052522-13
GTA SAMPLE NO: 1
DATE SAMPLED: 5/25/2022
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 5/25/2022
TIME RECEIVED: 3:05 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		5/26/2022	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: 2018100106
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-201

GTA PROJECT NO: 052522-13
GTA SAMPLE NO: 2
DATE SAMPLED: 5/25/2022
TIME SAMPLED: 12:15 PM
DATE RECEIVED: 5/25/2022
TIME RECEIVED: 3:05 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>
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Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-202

GTA PROJECT NO: 052522-13
GTA SAMPLE NO: 3
DATE SAMPLED: 5/25/2022
TIME SAMPLED: 12:25 PM
DATE RECEIVED: 5/25/2022
TIME RECEIVED: 3:05 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>
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Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100106
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-133

GTA PROJECT NO: 052522-13
GTA SAMPLE NO: 4
DATE SAMPLED: 5/25/2022
TIME SAMPLED: 12:35 PM
DATE RECEIVED: 5/25/2022
TIME RECEIVED: 3:05 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>
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Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100106
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-135

GTA PROJECT NO: 052522-13
GTA SAMPLE NO: 5
DATE SAMPLED: 5/25/2022
TIME SAMPLED: 12:50 PM
DATE RECEIVED: 5/25/2022
TIME RECEIVED: 3:05 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>
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Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-136

GTA PROJECT NO: 052522-13
GTA SAMPLE NO: 6
DATE SAMPLED: 5/25/2022
TIME SAMPLED: 1:05 PM
DATE RECEIVED: 5/25/2022
TIME RECEIVED: 3:05 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>
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Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: POSTLEWAIT RES

GTA PROJECT NO: 052522-13
GTA SAMPLE NO: 7
DATE SAMPLED: 5/25/2022
TIME SAMPLED: 1:30 PM
DATE RECEIVED: 5/25/2022
TIME RECEIVED: 3:05 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		5/26/2022	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					

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PROJECT NO: 2018100106
LOCATION: HAYES 22
MI
SAMPLED BY: BRENDON RUPPEN/GCES

GTA PROJECT NO: 052522-13
GTA SAMPLE NO: 1
DATE SAMPLED: 5/25/2022
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 5/25/2022
TIME RECEIVED: 3:05 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-134							
CHLORIDE EPA 300.0		ND	10	mg/L (PPM)	KC/TR	6/2/2022	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

GTA PROJECT NO: 052522-13

PROJECT NO: 2018100106

GTA SAMPLE NO: 2

LOCATION: HAYES 22

DATE SAMPLED: 5/25/2022

TIME SAMPLED: 12:15 PM

DATE RECEIVED: 5/25/2022

TIME RECEIVED: 3:05 PM

MI

SAMPLED BY: BRENDON RUPPEN/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: RW-201

CHLORIDE EPA 300.0

Concentration

14

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

6/2/2022

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100106

LOCATION: HAYES 22

GTA PROJECT NO: 052522-13

GTA SAMPLE NO: 3

DATE SAMPLED: 5/25/2022

TIME SAMPLED: 12:25 PM

DATE RECEIVED: 5/25/2022

TIME RECEIVED: 3:05 PM

SAMPLED BY: MI
BRENDON RUPPEN/GCES**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: RW-202

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

6/2/2022

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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



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LOCATION: HAYES 22
MI
SAMPLED BY: BRENDON RUPPEN/GCES

GTA PROJECT NO: 052522-13
GTA SAMPLE NO: 4
DATE SAMPLED: 5/25/2022
TIME SAMPLED: 12:35 PM
DATE RECEIVED: 5/25/2022
TIME RECEIVED: 3:05 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-133 CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	6/2/2022	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: 052522-13

PROJECT NO: 2018100106

GTA SAMPLE NO: 5

LOCATION: HAYES 22

DATE SAMPLED: 5/25/2022

TIME SAMPLED: 12:50 PM

DATE RECEIVED: 5/25/2022

TIME RECEIVED: 3:05 PM

MI

SAMPLED BY: BRENDON RUPPEN/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-135

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample

ND

10

mg/L (PPM)

KC/TR

6/2/2022

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

GTA PROJECT NO: 052522-13

PROJECT NO: 2018100106

GTA SAMPLE NO: 6

LOCATION: HAYES 22

DATE SAMPLED: 5/25/2022

TIME SAMPLED: 1:05 PM

DATE RECEIVED: 5/25/2022

TIME RECEIVED: 3:05 PM

MI

SAMPLED BY: BRENDON RUPPEN/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-136

CHLORIDE EPA 300.0

Concentration

34

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

6/2/2022

Sample

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: 052522-13

PROJECT NO: 2018100106

GTA SAMPLE NO: 7

LOCATION: HAYES 22

DATE SAMPLED: 5/25/2022

TIME SAMPLED: 1:30 PM

DATE RECEIVED: 5/25/2022

TIME RECEIVED: 3:05 PM

MI

SAMPLED BY: BRENDON RUPPEN/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: POSTLEWAIT RES

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

6/2/2022

Sample

WATER

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LOD = LIMIT OF DETECTION

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

CHAIN OF CUSTODY

PROJECT NUMBER 2018100106	SITE NAME/ADDRESS Hoyes 22	COMPANY/NAME LER
SAMPLED BY Brendan P. Ruppen	COMPANY GCEs	GTA PROJECT # 052522-13

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-134	5/25/22	12:00	GW	BTEX, Chloride
2	RW-201	↓	12:15	↓	↓
3	RW-202	↓	12:25	↓	↓
4	MW-133	↓	12:35	↓	↓
5	MW-135	↓	12:50	↓	↓
6	MW-136	↓	1:05	↓	↓
7	Postlewait Res	↓	1:30	↓	BTEX+4, Chloride

BILL TO: LER	TempRec: ☐ 3.2°C	On Ice? ☒ Y ☐ N	REPORT TO: J. Simo
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RELEASED BY B. Ruppen	DATE/TIME 3:05 5/25/22	RECEIVED BY [Signature]	DATE/TIME 5/25/22 3:05
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REQUESTED TAT ☒ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS