



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: 2018100119.01
GTA ProjNo: 010422-3

Site Addr: MANCELONA "B"

Sampled By: MARK STOVER/GCES
Date Rec: 1/4/2022
Time Rec: 3:16 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-21	1/3/2022	1:45 PM	WATER
2	MW-26	1/3/2022	11:55 AM	WATER
3	MW-27	1/3/2022	12:50 PM	WATER
4	MW-28	1/3/2022	3:00 PM	WATER
5	MW-33	1/3/2022	11:00 AM	WATER
6	MW-16	1/4/2022	10:20 AM	WATER
7	MW-20	1/4/2022	12:30 PM	WATER
8	MW-25	1/4/2022	1:20 PM	WATER
9	MW-30	1/4/2022	11:30 AM	WATER
10	MW-31	1/4/2022	2:15 PM	WATER
11	DUPLICATE	1/4/2022		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
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: 2018100119.01

LOCATION: MANCELONA "B"

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-21

GTA PROJECT NO: 010422-3

GTA SAMPLE NO: 1

DATE SAMPLED: 1/3/2022

TIME SAMPLED: 1:45 PM

DATE RECEIVED: 1/4/2022

TIME RECEIVED: 3:16 PM

SAMPLED BY: MARK STOVER/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		1/5/2022	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: 2018100119.01
 LOCATION: MANCELONA "B"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-26

GTA PROJECT NO: 010422-3
 GTA SAMPLE NO: 2
 DATE SAMPLED: 1/3/2022
 TIME SAMPLED: 11:55 AM
 DATE RECEIVED: 1/4/2022
 TIME RECEIVED: 3:16 PM

SAMPLED BY: MARK STOVER/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		1/5/2022	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100119.01
 LOCATION: MANCELONA "B"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-27

GTA PROJECT NO: 010422-3
 GTA SAMPLE NO: 3
 DATE SAMPLED: 1/3/2022
 TIME SAMPLED: 12:50 PM
 DATE RECEIVED: 1/4/2022
 TIME RECEIVED: 3:16 PM

SAMPLED BY: MARK STOVER/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		1/5/2022	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100119.01
 LOCATION: MANCELONA "B"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-33

GTA PROJECT NO: 010422-3
 GTA SAMPLE NO: 5
 DATE SAMPLED: 1/3/2022
 TIME SAMPLED: 11:00 AM
 DATE RECEIVED: 1/4/2022
 TIME RECEIVED: 3:16 PM

SAMPLED BY: MARK STOVER/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		1/5/2022	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100119.01
 LOCATION: MANCELONA "B"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-16

GTA PROJECT NO: 010422-3
 GTA SAMPLE NO: 6
 DATE SAMPLED: 1/4/2022
 TIME SAMPLED: 10:20 AM
 DATE RECEIVED: 1/4/2022
 TIME RECEIVED: 3:16 PM

SAMPLED BY: MARK STOVER/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		1/5/2022	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100119.01
 LOCATION: MANCELONA "B"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-25

GTA PROJECT NO: 010422-3
 GTA SAMPLE NO: 8
 DATE SAMPLED: 1/4/2022
 TIME SAMPLED: 1:20 PM
 DATE RECEIVED: 1/4/2022
 TIME RECEIVED: 3:16 PM

SAMPLED BY: MARK STOVER/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		1/5/2022	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100119.01
 LOCATION: MANCELONA "B"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-30

GTA PROJECT NO: 010422-3
 GTA SAMPLE NO: 9
 DATE SAMPLED: 1/4/2022
 TIME SAMPLED: 11:30 AM
 DATE RECEIVED: 1/4/2022
 TIME RECEIVED: 3:16 PM

SAMPLED BY: MARK STOVER/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		1/5/2022	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100119.01
 LOCATION: MANCELONA "B"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-31

GTA PROJECT NO: 010422-3
 GTA SAMPLE NO: 10
 DATE SAMPLED: 1/4/2022
 TIME SAMPLED: 2:15 PM
 DATE RECEIVED: 1/4/2022
 TIME RECEIVED: 3:16 PM

SAMPLED BY: MARK STOVER/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		1/5/2022	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 010422-3

PROJECT NO: 2018100119.01

GTA SAMPLE NO: 1

LOCATION: MANCELONA "B"

DATE SAMPLED: 1/3/2022

TIME SAMPLED: 1:45 PM

DATE RECEIVED: 1/4/2022

TIME RECEIVED: 3:16 PM

MI

SAMPLED BY: MARK STOVER/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-21	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR	1/7/2022	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

PROJECT NO: 2018100119.01

LOCATION: MANCELONA "B"

GTA PROJECT NO: 010422-3

GTA SAMPLE NO: 3

DATE SAMPLED: 1/3/2022

TIME SAMPLED: 12:50 PM

DATE RECEIVED: 1/4/2022

TIME RECEIVED: 3:16 PM

MI

SAMPLED BY: MARK STOVER/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-27	CHLORIDE EPA 300.0	270	10	mg/L (PPM)	TR	1/7/2022	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: 010422-3
PROJECT NO: 2018100119.01 GTA SAMPLE NO: 4
LOCATION: MANCELONA "B" DATE SAMPLED: 1/3/2022
TIME SAMPLED: 3:00 PM
DATE RECEIVED: 1/4/2022
TIME RECEIVED: 3:16 PM
MI
SAMPLED BY: MARK STOVER/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-28							
CHLORIDE EPA 300.0		370	10	mg/L (PPM)	TR	1/7/2022	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: 010422-3

PROJECT NO: 2018100119.01

GTA SAMPLE NO: 5

LOCATION: MANCELONA "B"

DATE SAMPLED: 1/3/2022

TIME SAMPLED: 11:00 AM

DATE RECEIVED: 1/4/2022

TIME RECEIVED: 3:16 PM

MI

SAMPLED BY: MARK STOVER/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-33 CHLORIDE EPA 300.0	36	10	mg/L (PPM)	TR	1/7/2022	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

PROJECT NO: 2018100119.01

LOCATION: MANCELONA "B"

GTA PROJECT NO: 010422-3

GTA SAMPLE NO: 7

DATE SAMPLED: 1/4/2022

TIME SAMPLED: 12:30 PM

DATE RECEIVED: 1/4/2022

TIME RECEIVED: 3:16 PM

MI

SAMPLED BY: MARK STOVER/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-20 CHLORIDE EPA 300.0	500	20	mg/L (PPM)	TR	1/7/2022	WATER

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



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FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 010422-3

PROJECT NO: 2018100119.01

GTA SAMPLE NO: 9

LOCATION: MANCELONA "B"

DATE SAMPLED: 1/4/2022

TIME SAMPLED: 11:30 AM

DATE RECEIVED: 1/4/2022

TIME RECEIVED: 3:16 PM

MI

SAMPLED BY: MARK STOVER/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-30	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR	1/7/2022	WATER

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



INDEPENDENT TESTING LAB

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	010422-3
PROJECT NO:	2018100119.01	GTA SAMPLE NO:	11
LOCATION:	MANCELONA "B"	DATE SAMPLED:	1/4/2022
		TIME SAMPLED:	
		DATE RECEIVED:	1/4/2022
		TIME RECEIVED:	3:16 PM
	MI		
SAMPLED BY:	MARK STOVER/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: DUPLICATE						
	CHLORIDE EPA 300.0	470	10	mg/L (PPM)	TR	1/7/2022	WATER

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

CHAIN OF CUSTODY

PROJECT NUMBER <i>2018100119.01</i>	SITE NAME/ADDRESS <i>MANCERONA "B"</i>	COMPANY/NAME <i>LAMBDA ENERGY</i>
SAMPLED BY <i>MARK STOVER</i>	COMPANY <i>G.C.E.S.</i>	GTA PROJECT # <i>010422-3</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	<i>MW-21</i>	<i>1-3-22</i>	<i>13:45</i>	<i>GW</i>	<i>BTEX, CHLORIDE</i>
2	<i>MW-26</i>	↓	<i>11:55</i>	↓	↓
3	<i>MW-27</i>	↓	<i>12:50</i>	↓	↓
4	<i>MW-28</i>	↓	<i>15:00</i>	↓	↓
5	<i>MW-33</i>	↓	<i>11:00</i>	↓	↓
6	<i>MW-16</i>	<i>1-4-22</i>	<i>10:20</i>	↓	↓
7	<i>MW-20</i>	↓	<i>12:30</i>	↓	↓
8	<i>MW-25</i>	↓	<i>13:20</i>	↓	↓
9	<i>MW-30</i>	↓	<i>11:30</i>	↓	↓
10	<i>MW-31</i>	↓	<i>14:15</i>	↓	↓
11	<i>DUPLICATE</i>	↓	<i>—</i>	↓	↓

BILL TO: <i>LAMBDA ENERGY</i>	TempRec: <input checked="" type="checkbox"/> <i>4.00 C</i>	On Ice? <input checked="" type="checkbox"/> <input type="checkbox"/>	REPORT TO: <i>ADAM BITEMAN</i>
----------------------------------	---	--	-----------------------------------

RELEASED BY <i>[Signature]</i>	DATE/TIME <i>1-4-22</i>	RECEIVED BY <i>[Signature]</i>	DATE/TIME <i>1/4/22 3:16</i>
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REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS