



**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

[www.gtanalytical.com](http://www.gtanalytical.com)

Company: LAMBDA ENERGY RESOURCES, LLC  
Name:  
ClientProj: 2018100142.01  
GTA ProjNo: 081120-11

Site Addr: WEDHOLM MCGAGUE 1-31

Sampled By: MARK STOVER/GCES  
Date Rec: 8/11/2020  
Time Rec: 2:15 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-3	8/11/2020		WATER
2	MW-1 (25')	8/11/2020		WATER
3	MW-2 (18')	8/11/2020		WATER
4	MW-1	8/11/2020		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  
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830 Robinwood Court  
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COMPANY: LAMBDA ENERGY RESOURCES, LLC  
 PROJECT NO: 2018100142.01  
 LOCATION: WEDHOLM MCGAGUE 1-31  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-3

GTA PROJECT NO: 081120-11  
 GTA SAMPLE NO: 1  
 DATE SAMPLED: 8/11/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 8/11/2020  
 TIME RECEIVED: 2:15 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		8/12/2020	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					

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: 2018100142.01  
 LOCATION: WEDHOLM MCGAGUE 1-31  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-1 (25')

GTA PROJECT NO: 081120-11  
 GTA SAMPLE NO: 2  
 DATE SAMPLED: 8/11/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 8/11/2020  
 TIME RECEIVED: 2:15 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		8/12/2020	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					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
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COMPANY: LAMBDA ENERGY RESOURCES, LLC  
 PROJECT NO: 2018100142.01  
 LOCATION: WEDHOLM MCGAGUE 1-31  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-2 (18')

GTA PROJECT NO: 081120-11  
 GTA SAMPLE NO: 3  
 DATE SAMPLED: 8/11/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 8/11/2020  
 TIME RECEIVED: 2:15 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		8/12/2020	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					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
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COMPANY: LAMBDA ENERGY RESOURCES, LLC  
 PROJECT NO: 2018100142.01  
 LOCATION: WEDHOLM MCGAGUE 1-31  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-1

GTA PROJECT NO: 081120-11  
 GTA SAMPLE NO: 4  
 DATE SAMPLED: 8/11/2020  
 TIME SAMPLED:  
 DATE RECEIVED: 8/11/2020  
 TIME RECEIVED: 2:15 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		8/12/2020	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					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
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COMPANY: LAMBDA ENERGY RESOURCES, LLC      GTA PROJECT NO: 081120-11  
PROJECT NO: 2018100142.01      GTA SAMPLE NO: 1  
LOCATION: WEDHOLM MCGAGUE 1-31      DATE RECEIVED: 8/11/2020  
MI      TIME RECEIVED: 2:15 PM  
DATE SAMPLED: 8/11/2020  
SAMPLED BY: MARK STOVER/GCES      TIME SAMPLED:  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-3

**SAMPLE RESULTS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	180	10	mg/L (PPM)	TR	8/14/2020
CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	8/13/2020
TDS MINUS BICARBONATE	140	5.0	mg/L (PPM)	TR	8/17/2020
TOTAL DISSOLVED SOLIDS EPA 160.1	320	5.0	mg/L (PPM)	TR	8/17/2020

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



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COMPANY: LAMBDA ENERGY RESOURCES, LLC      GTA PROJECT NO: 081120-11  
PROJECT NO: 2018100142.01      GTA SAMPLE NO: 2  
LOCATION: WEDHOLM MCGAGUE 1-31      DATE RECEIVED: 8/11/2020  
MI      TIME RECEIVED: 2:15 PM  
SAMPLED BY: MARK STOVER/GCES      DATE SAMPLED: 8/11/2020  
MI      TIME SAMPLED:  
SAMPLE ID: MW-1 (25')      SAMPLE MATRIX: WATER

**SAMPLE RESULTS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	160	10	mg/L (PPM)	TR	8/14/2020
CHLORIDE EPA 300.0	28	10	mg/L (PPM)	LV	8/13/2020
TDS MINUS BICARBONATE	110	5.0	mg/L (PPM)	TR	8/17/2020
TOTAL DISSOLVED SOLIDS EPA 160.1	270	5.0	mg/L (PPM)	TR	8/17/2020

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PROJECT NO: 2018100142.01      GTA SAMPLE NO: 3  
LOCATION: WEDHOLM MCGAGUE 1-31      DATE RECEIVED: 8/11/2020  
MI      TIME RECEIVED: 2:15 PM  
DATE SAMPLED: 8/11/2020  
SAMPLED BY: MARK STOVER/GCES      TIME SAMPLED:  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-2 (18')

**SAMPLE RESULTS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	180	10	mg/L (PPM)	TR	8/14/2020
CHLORIDE EPA 300.0	27	10	mg/L (PPM)	LV	8/13/2020
TDS MINUS BICARBONATE	180	5.0	mg/L (PPM)	TR	8/17/2020
TOTAL DISSOLVED SOLIDS EPA 160.1	360	5.0	mg/L (PPM)	TR	8/17/2020

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LOCATION: WEDHOLM MCGAGUE 1-31  
MI  
SAMPLED BY: MARK STOVER/GCES  
SAMPLE ID: MW-1

GTA PROJECT NO: 081120-11  
GTA SAMPLE NO: 4  
DATE RECEIVED: 8/11/2020  
TIME RECEIVED: 2:15 PM  
DATE SAMPLED: 8/11/2020  
TIME SAMPLED:  
SAMPLE MATRIX: WATER

**SAMPLE RESULTS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	120	10	mg/L (PPM)	TR	8/14/2020
CHLORIDE EPA 300.0	160	10	mg/L (PPM)	LV	8/13/2020
TDS MINUS BICARBONATE	510	5.0	mg/L (PPM)	TR	8/17/2020
TOTAL DISSOLVED SOLIDS EPA 160.1	630	5.0	mg/L (PPM)	TR	8/17/2020

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

