



**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  
GTA ProjNo: 060424-17

Site Addr: WEDHOLM MCCAGUE 1-31

Sampled By: JFR/GCES  
Date Rec: 6/4/2024  
Time Rec: 4:45 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-101S	6/4/2024	3:00 PM	WATER
2	MW-101D	6/4/2024	3:10 PM	WATER
3	MW-104S	6/4/2024	3:20 PM	WATER
4	MW-104D	6/4/2024	3:30 PM	WATER
5	MW-105	6/4/2024	3:40 PM	WATER
6	SUMP	6/4/2024	3:50 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  
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830 Robinwood Court  
Traverse City, MI 49686  
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COMPANY: LAMBDA ENERGY RESOURCES, LLC  
PROJECT NO: 2018100142  
LOCATION: WEDHOLM MCCAGUE 1-31  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-101S

GTA PROJECT NO: 060424-17  
GTA SAMPLE NO: 1  
DATE SAMPLED: 6/4/2024  
TIME SAMPLED: 3:00 PM  
DATE RECEIVED: 6/4/2024  
TIME RECEIVED: 4:45 PM  
SAMPLED BY: JFR/GCES

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		6/6/2024	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

COMPANY: LAMBDA ENERGY RESOURCES, LLC  
PROJECT NO: 2018100142  
LOCATION: WEDHOLM MCCAGUE 1-31  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-101D

GTA PROJECT NO: 060424-17  
GTA SAMPLE NO: 2  
DATE SAMPLED: 6/4/2024  
TIME SAMPLED: 3:10 PM  
DATE RECEIVED: 6/4/2024  
TIME RECEIVED: 4:45 PM

SAMPLED BY: JFR/GCES

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		6/6/2024	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

COMPANY: LAMBDA ENERGY RESOURCES, LLC  
PROJECT NO: 2018100142  
LOCATION: WEDHOLM MCCAGUE 1-31  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-104S

GTA PROJECT NO: 060424-17  
GTA SAMPLE NO: 3  
DATE SAMPLED: 6/4/2024  
TIME SAMPLED: 3:20 PM  
DATE RECEIVED: 6/4/2024  
TIME RECEIVED: 4:45 PM

SAMPLED BY: JFR/GCES

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		6/6/2024	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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LOD = LIMIT OF DETECTION

COMPANY: LAMBDA ENERGY RESOURCES, LLC  
 PROJECT NO: 2018100142  
 LOCATION: WEDHOLM MCCAGUE 1-31  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: MW-104D

GTA PROJECT NO: 060424-17  
 GTA SAMPLE NO: 4  
 DATE SAMPLED: 6/4/2024  
 TIME SAMPLED: 3:30 PM  
 DATE RECEIVED: 6/4/2024  
 TIME RECEIVED: 4:45 PM

SAMPLED BY: JFR/GCES

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		6/6/2024	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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 LOD = LIMIT OF DETECTION

COMPANY: LAMBDA ENERGY RESOURCES, LLC  
PROJECT NO: 2018100142  
LOCATION: WEDHOLM MCCAGUE 1-31  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-105

GTA PROJECT NO: 060424-17  
GTA SAMPLE NO: 5  
DATE SAMPLED: 6/4/2024  
TIME SAMPLED: 3:40 PM  
DATE RECEIVED: 6/4/2024  
TIME RECEIVED: 4:45 PM

SAMPLED BY: JFR/GCES

**EPA 8260B VOLATILE ORGANICS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		6/6/2024	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  
 LOCATION: WEDHOLM MCCAGUE 1-31  
 MI  
 SAMPLE MATRIX: WATER  
 SAMPLE ID: SUMP

GTA PROJECT NO: 060424-17  
 GTA SAMPLE NO: 6  
 DATE SAMPLED: 6/4/2024  
 TIME SAMPLED: 3:50 PM  
 DATE RECEIVED: 6/4/2024  
 TIME RECEIVED: 4:45 PM

SAMPLED BY: JFR/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		6/6/2024	EPA 5030B
Toluene	80	1.0					
Ethylbenzene	38	1.0					
Xylene(Total)	1,200	3.0					
1,2,4-Trimethylbenzene	8,500	250					
1,3,5-Trimethylbenzene	2,400	250					
Naphthalene	17	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC  
 PROJECT NO: 2018100142  
 LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 060424-17  
 GTA SAMPLE NO: 1  
 DATE SAMPLED: 6/4/2024  
 TIME SAMPLED: 3:00 PM  
 DATE RECEIVED: 6/4/2024  
 TIME RECEIVED: 4:45 PM

SAMPLED BY: MI  
 JFR/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-101S						
	CHLORIDE EPA 300.0	45	10	mg/L (PPM)	KC/TR	6/16/2024	WATER
	TOTAL DISSOLVED SOLIDS EPA 160.1	360	5.0	mg/L (PPM)	TR	6/11/2024	WATER

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC  
 PROJECT NO: 2018100142  
 LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 060424-17  
 GTA SAMPLE NO: 2  
 DATE SAMPLED: 6/4/2024  
 TIME SAMPLED: 3:10 PM  
 DATE RECEIVED: 6/4/2024  
 TIME RECEIVED: 4:45 PM

MI  
 SAMPLED BY: JFR/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-101D						
	CHLORIDE EPA 300.0	36	10	mg/L (PPM)	KC/TR	6/16/2024	WATER
	TOTAL DISSOLVED SOLIDS EPA 160.1	270	5.0	mg/L (PPM)	TR	6/11/2024	WATER

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 LOD = LIMIT OF DETECTION  
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 DISS = DISSOLVED



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LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 060424-17  
GTA SAMPLE NO: 3  
DATE SAMPLED: 6/4/2024  
TIME SAMPLED: 3:20 PM  
DATE RECEIVED: 6/4/2024  
TIME RECEIVED: 4:45 PM

SAMPLED BY: MI  
JFR/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-104S						
	CHLORIDE EPA 300.0	120	10	mg/L (PPM)	KC/TR	6/16/2024	WATER
	TOTAL DISSOLVED SOLIDS EPA 160.1	590	5.0	mg/L (PPM)	TR	6/11/2024	WATER

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LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 060424-17  
GTA SAMPLE NO: 4  
DATE SAMPLED: 6/4/2024  
TIME SAMPLED: 3:30 PM  
DATE RECEIVED: 6/4/2024  
TIME RECEIVED: 4:45 PM

MI  
SAMPLED BY: JFR/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-104D						
	CHLORIDE EPA 300.0	73	10	mg/L (PPM)	KC/TR	6/16/2024	WATER
	TOTAL DISSOLVED SOLIDS EPA 160.1	380	5.0	mg/L (PPM)	TR	6/11/2024	WATER

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LOD = LIMIT OF DETECTION  
s.u. = STANDARD pH UNITS REPORTED AT 25 C  
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PROJECT NO: 2018100142  
LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 060424-17  
GTA SAMPLE NO: 5  
DATE SAMPLED: 6/4/2024  
TIME SAMPLED: 3:40 PM  
DATE RECEIVED: 6/4/2024  
TIME RECEIVED: 4:45 PM

SAMPLED BY: MI  
JFR/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-105	CHLORIDE EPA 300.0	160	10	mg/L (PPM)	KC/TR	6/16/2024	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: 2018100142  
 LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 060424-17  
 GTA SAMPLE NO: 6  
 DATE SAMPLED: 6/4/2024  
 TIME SAMPLED: 3:50 PM  
 DATE RECEIVED: 6/4/2024  
 TIME RECEIVED: 4:45 PM

SAMPLED BY: MI  
 JFR/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: SUMP CHLORIDE EPA 300.0	79	10	mg/L (PPM)	KC/TR	6/16/2024	WATER

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

