

**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: 2018100175.01

GTA ProjNo: 031623-9

Site Addr: JOUPPI 3-17

Sampled By: DJT/GCES

Date Rec: 3/16/2023

Time Rec: 2:25 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	RW-1	3/16/2023	10:05 AM	WATER
2	MW-5S	3/16/2023	10:45 AM	WATER
3	MW-5D	3/16/2023	11:05 AM	WATER
4	MW-3R	3/16/2023	11:40 AM	WATER
5	MW-2R	3/16/2023	12:15 PM	WATER
6	MW-4	3/16/2023	12:55 PM	WATER
7	MW-1R	3/16/2023	1:25 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: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-1

GTA PROJECT NO: 031623-9
GTA SAMPLE NO: 1
DATE SAMPLED: 3/16/2023
TIME SAMPLED: 10:05 AM
DATE RECEIVED: 3/16/2023
TIME RECEIVED: 2:25 PM
SAMPLED BY: DJT/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		3/18/2023	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: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-5S

GTA PROJECT NO: 031623-9
GTA SAMPLE NO: 2
DATE SAMPLED: 3/16/2023
TIME SAMPLED: 10:45 AM
DATE RECEIVED: 3/16/2023
TIME RECEIVED: 2:25 PM
SAMPLED BY: DJT/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>Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		3/18/2023	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	GTA PROJECT NO:	031623-9
PROJECT NO:	2018100175.01	GTA SAMPLE NO:	3
LOCATION:	JOUPPI 3-17	DATE SAMPLED:	3/16/2023
		TIME SAMPLED:	11:05 AM
	MI	DATE RECEIVED:	3/16/2023
		TIME RECEIVED:	2:25 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-5D	SAMPLED BY:	DJT/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		3/18/2023	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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LOD = LIMIT OF DETECTION

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-3R
GTA PROJECT NO: 031623-9
GTA SAMPLE NO: 4
DATE SAMPLED: 3/16/2023
TIME SAMPLED: 11:40 AM
DATE RECEIVED: 3/16/2023
TIME RECEIVED: 2:25 PM
SAMPLED BY: DJT/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>Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		3/18/2023	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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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-2R

GTA PROJECT NO: 031623-9
GTA SAMPLE NO: 5
DATE SAMPLED: 3/16/2023
TIME SAMPLED: 12:15 PM
DATE RECEIVED: 3/16/2023
TIME RECEIVED: 2:25 PM
SAMPLED BY: DJT/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		3/18/2023	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: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-4

GTA PROJECT NO: 031623-9
GTA SAMPLE NO: 6
DATE SAMPLED: 3/16/2023
TIME SAMPLED: 12:55 PM
DATE RECEIVED: 3/16/2023
TIME RECEIVED: 2:25 PM
SAMPLED BY: DJT/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		3/18/2023	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: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-1R

GTA PROJECT NO: 031623-9
GTA SAMPLE NO: 7
DATE SAMPLED: 3/16/2023
TIME SAMPLED: 1:25 PM
DATE RECEIVED: 3/16/2023
TIME RECEIVED: 2:25 PM
SAMPLED BY: DJT/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>Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		3/18/2023	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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 031623-9

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 1

LOCATION: JOUPPI 3-17

DATE SAMPLED: 3/16/2023

TIME SAMPLED: 10:05 AM

DATE RECEIVED: 3/16/2023

TIME RECEIVED: 2:25 PM

SAMPLED BY: MI
DJT/GCES**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: RW-1

CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
40	10	mg/L (PPM)	KC/TR	3/21/2023	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: 031623-9

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 2

LOCATION: JOUPPI 3-17

DATE SAMPLED: 3/16/2023

TIME SAMPLED: 10:45 AM

DATE RECEIVED: 3/16/2023

TIME RECEIVED: 2:25 PM

SAMPLED BY: MI
DJT/GCES**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-5S

CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
27	10	mg/L (PPM)	KC/TR	3/21/2023	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: 031623-9

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 3

LOCATION: JOUPPI 3-17

DATE SAMPLED: 3/16/2023

TIME SAMPLED: 11:05 AM

DATE RECEIVED: 3/16/2023

TIME RECEIVED: 2:25 PM

SAMPLED BY: MI
DJT/GCES**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-5D

CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
23	10	mg/L (PPM)	KC/TR	3/21/2023	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: 031623-9

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 4

LOCATION: JOUPPI 3-17

DATE SAMPLED: 3/16/2023

TIME SAMPLED: 11:40 AM

DATE RECEIVED: 3/16/2023

TIME RECEIVED: 2:25 PM

MI

SAMPLED BY: DJT/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-3R

CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
22	10	mg/L (PPM)	KC/TR	3/21/2023	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: 031623-9

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 5

LOCATION: JOUPPI 3-17

DATE SAMPLED: 3/16/2023

TIME SAMPLED: 12:15 PM

DATE RECEIVED: 3/16/2023

TIME RECEIVED: 2:25 PM

MI

SAMPLED BY: DJT/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-2R

CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
16	10	mg/L (PPM)	KC/TR	3/21/2023	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: 031623-9

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 6

LOCATION: JOUPPI 3-17

DATE SAMPLED: 3/16/2023

TIME SAMPLED: 12:55 PM

DATE RECEIVED: 3/16/2023

TIME RECEIVED: 2:25 PM

MI

SAMPLED BY: DJT/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-4

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample Matrix

85

10

mg/L (PPM)

KC/TR

3/21/2023

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 031623-9

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 7

LOCATION: JOUPPI 3-17

DATE SAMPLED: 3/16/2023

TIME SAMPLED: 1:25 PM

DATE RECEIVED: 3/16/2023

TIME RECEIVED: 2:25 PM

MI

SAMPLED BY: DJT/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-1R

CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
17	10	mg/L (PPM)	KC/TR	3/21/2023	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

CHAIN OF CUSTODY

PROJECT NUMBER 2018100175.01	SITE NAME/ADDRESS Jaoppi 3-17	COMPANY/NAME LER
SAMPLED BY DJT	COMPANY GLES	GTA PROJECT # 031623-9

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	RW-1	3/16/23	10 05	GW	BTEX + 4, CI-
2	MW-5s	↓	10 45	↓	↓
3	MW-5d		11 05		
4	MW-3R		11 40		
5	MW-2R		12 15		
6	MW-4		12 55		
7	MW-1R		13 25		

BILL TO: Lambda	TempRec: ☐ 2.8°C	On Ice? ☒ Y ☐ N	REPORT TO: J. Simsa
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RELEASED BY Dmitry	DATE/TIME 3/16/23 2:25	RECEIVED BY [Signature]	DATE/TIME 3/16/23 2:25
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REQUESTED TAT ☒ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS