

**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: 2018100136.02

GTA ProjNo: 121223-6

Site Addr: HAYES 22

Sampled By: BRENDAN HOLBROOL/GCES

Date Rec: 12/12/2023

Time Rec: 2:25 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	RW-101 BLD	12/12/2023	1:00 PM	WATER
2	RW-102 BLD	12/12/2023	1:00 PM	WATER
3	RW-103 BLD	12/12/2023	1:00 PM	WATER
4	TOWER EFF	12/12/2023	1:00 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
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100136.02
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-101 BLD

GTA PROJECT NO: 121223-6
GTA SAMPLE NO: 1
DATE SAMPLED: 12/12/2023
TIME SAMPLED: 1:00 PM
DATE RECEIVED: 12/12/2023
TIME RECEIVED: 2:25 PM
SAMPLED BY: BRENDAN HOLBROOK/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		12/14/2023	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: 2018100136.02
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-102 BLD

GTA PROJECT NO: 121223-6
GTA SAMPLE NO: 2
DATE SAMPLED: 12/12/2023
TIME SAMPLED: 1:00 PM
DATE RECEIVED: 12/12/2023
TIME RECEIVED: 2:25 PM
SAMPLED BY: BRENDAN HOLBROOK/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		12/14/2023	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: 2018100136.02
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-103 BLD

GTA PROJECT NO: 121223-6
GTA SAMPLE NO: 3
DATE SAMPLED: 12/12/2023
TIME SAMPLED: 1:00 PM
DATE RECEIVED: 12/12/2023
TIME RECEIVED: 2:25 PM
SAMPLED BY: BRENDAN HOLBROOK/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	7.9	1.0	ug/L (PPB)	MR		12/14/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	16	1.0					
Xylene(Total)	23	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100136.02
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: TOWER EFF

GTA PROJECT NO: 121223-6
GTA SAMPLE NO: 4
DATE SAMPLED: 12/12/2023
TIME SAMPLED: 1:00 PM
DATE RECEIVED: 12/12/2023
TIME RECEIVED: 2:25 PM
SAMPLED BY: BRENDAN HOLBROOK/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		12/13/2023	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: 2018100136.02
LOCATION: HAYES 22
MI
SAMPLED BY: BRENDAN HOLBROOL/GCES
SAMPLE ID: RW-101 BLD

GTA PROJECT NO: 121223-6
GTA SAMPLE NO: 1
DATE SAMPLED: 12/12/2023
TIME SAMPLED: 1:00 PM
DATE RECEIVED: 12/12/2023
TIME RECEIVED: 2:25 PM
SAMPLE MATRIX: WATER

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	12/19/2023	EPA 3005A
IRON DISS EPA 200.8	0.059	0.050	mg/L (PPM)	MR	12/19/2023	EPA 3005A
MANGANESE DISS EPA 200.8	0.18	0.0010	mg/L (PPM)	MR	12/19/2023	EPA 3005A

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DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100136.02

LOCATION: HAYES 22

MI

SAMPLED BY: BRENDAN HOLBROOL/GCES

SAMPLE ID: RW-102 BLD

GTA PROJECT NO: 121223-6

GTA SAMPLE NO: 2

DATE SAMPLED: 12/12/2023

TIME SAMPLED: 1:00 PM

DATE RECEIVED: 12/12/2023

TIME RECEIVED: 2:25 PM

SAMPLE MATRIX: WATER

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC DISS EPA 200.8	0.0042	0.0010	mg/L (PPM)	MR	12/19/2023	EPA 3005A
IRON DISS EPA 200.8	0.72	0.050	mg/L (PPM)	MR	12/19/2023	EPA 3005A
MANGANESE DISS EPA 200.8	0.077	0.0010	mg/L (PPM)	MR	12/19/2023	EPA 3005A

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DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100136.02
LOCATION: HAYES 22
MI
SAMPLED BY: BRENDAN HOLBROOL/GCES
SAMPLE ID: RW-103 BLD

GTA PROJECT NO: 121223-6
GTA SAMPLE NO: 3
DATE SAMPLED: 12/12/2023
TIME SAMPLED: 1:00 PM
DATE RECEIVED: 12/12/2023
TIME RECEIVED: 2:25 PM
SAMPLE MATRIX: WATER

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC DISS EPA 200.8	0.0031	0.0010	mg/L (PPM)	MR	12/19/2023	EPA 3005A
IRON DISS EPA 200.8	1.6	0.050	mg/L (PPM)	MR	12/19/2023	EPA 3005A
MANGANESE DISS EPA 200.8	0.075	0.0010	mg/L (PPM)	MR	12/19/2023	EPA 3005A

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LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100136.02

LOCATION: HAYES 22

MI

SAMPLED BY: BRENDAN HOLBROOL/GCES

SAMPLE ID: TOWER EFF

GTA PROJECT NO: 121223-6

GTA SAMPLE NO: 4

DATE SAMPLED: 12/12/2023

TIME SAMPLED: 1:00 PM

DATE RECEIVED: 12/12/2023

TIME RECEIVED: 2:25 PM

SAMPLE MATRIX: WATER

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	12/19/2023	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	12/19/2023	EPA 3005A
MANGANESE DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	12/19/2023	EPA 3005A

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LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100136.02

LOCATION: HAYES 22

GTA PROJECT NO: 121223-6

GTA SAMPLE NO: 1

DATE SAMPLED: 12/12/2023

TIME SAMPLED: 1:00 PM

DATE RECEIVED: 12/12/2023

TIME RECEIVED: 2:25 PM

MI

SAMPLED BY: BRENDAN HOLBROOL/GCES

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: RW-101 BLD

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

12/17/2023

Sample Matrix

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: 2018100136.02

LOCATION: HAYES 22

GTA PROJECT NO: 121223-6

GTA SAMPLE NO: 2

DATE SAMPLED: 12/12/2023

TIME SAMPLED: 1:00 PM

DATE RECEIVED: 12/12/2023

TIME RECEIVED: 2:25 PM

MI

SAMPLED BY: BRENDAN HOLBROOL/GCES

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: RW-102 BLD

CHLORIDE EPA 300.0

Concentration

20

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

12/17/2023

Sample Matrix

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: 121223-6

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 3

LOCATION: HAYES 22

DATE SAMPLED: 12/12/2023

TIME SAMPLED: 1:00 PM

DATE RECEIVED: 12/12/2023

TIME RECEIVED: 2:25 PM

MI

SAMPLED BY: BRENDAN HOLBROOL/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: RW-103 BLD

CHLORIDE EPA 300.0

Concentration

15

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

12/17/2023

Sample Matrix

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: 121223-6

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 4

LOCATION: HAYES 22

DATE SAMPLED: 12/12/2023

TIME SAMPLED: 1:00 PM

DATE RECEIVED: 12/12/2023

TIME RECEIVED: 2:25 PM

MI

SAMPLED BY: BRENDAN HOLBROOL/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: TOWER EFF

CHLORIDE EPA 300.0

Concentration

17

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

12/17/2023

Sample Matrix

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

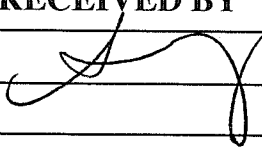
CHAIN OF CUSTODY

PROJECT NUMBER 201810013602	SITE NAME/ADDRESS Hayes 22	COMPANY/NAME Lambda
SAMPLED BY Brendan Holbrook	COMPANY Bozling CzubaK	GTA PROJECT # 121223-6

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	RW-101 Bld	12/12/23	13:00	GW	BTEX, Iron, Manganese, Arsenic Dissolved Metals, chloride
2	RW-102 Bld				
3	RW-103 Bld				
4	TOWER EFF				

BILL TO: Lambda	TempRec: ☐ 4.00	On Ice? ☒ Y ☐ N	REPORT TO:
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RELEASED BY Brendan Holbrook	DATE/TIME 12/12/23 2:25	RECEIVED BY 	DATE/TIME 12/12/23 2:25
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REQUESTED TAT ☒ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS