

**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: 092123-13

Site Addr: HAYES 22

Sampled By: BH/GCES

Date Rec: 9/21/2023

Time Rec: 4:00 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	RW-101-BLD	9/21/2023	1:30 PM	WATER
2	RW-103-BLD	9/21/2023	1:35 PM	WATER
3	RW-105-BLD	9/21/2023	1:40 PM	WATER
4	TOWER EFF.	9/21/2023	1:45 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
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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: 092123-13
GTA SAMPLE NO: 1
DATE SAMPLED: 9/21/2023
TIME SAMPLED: 1:30 PM
DATE RECEIVED: 9/21/2023
TIME RECEIVED: 4:00 PM
SAMPLED BY: BH/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		9/23/2023	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-103-BLD

GTA PROJECT NO: 092123-13
GTA SAMPLE NO: 2
DATE SAMPLED: 9/21/2023
TIME SAMPLED: 1:35 PM
DATE RECEIVED: 9/21/2023
TIME RECEIVED: 4:00 PM
SAMPLED BY: BH/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	26	1.0	ug/L (PPB)	MR		9/23/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	22	1.0					
Xylene(Total)	27	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100136.02
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-105-BLD

GTA PROJECT NO: 092123-13
GTA SAMPLE NO: 3
DATE SAMPLED: 9/21/2023
TIME SAMPLED: 1:40 PM
DATE RECEIVED: 9/21/2023
TIME RECEIVED: 4:00 PM
SAMPLED BY: BH/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	8.6	1.0	ug/L (PPB)	MR		9/23/2023	EPA 5030B
Toluene	1.8	1.0					
Ethylbenzene	27	1.0					
Xylene(Total)	41	3.0					

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PROJECT NO: 2018100136.02
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: TOWER EFF.
GTA PROJECT NO: 092123-13
GTA SAMPLE NO: 4
DATE SAMPLED: 9/21/2023
TIME SAMPLED: 1:45 PM
DATE RECEIVED: 9/21/2023
TIME RECEIVED: 4:00 PM
SAMPLED BY: BH/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		9/23/2023	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: BH/GCES
SAMPLE ID: RW-101-BLD

GTA PROJECT NO: 092123-13
GTA SAMPLE NO: 1
DATE SAMPLED: 9/21/2023
TIME SAMPLED: 1:30 PM
DATE RECEIVED: 9/21/2023
TIME RECEIVED: 4:00 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	9/25/2023	EPA 3005A
IRON DISS EPA 200.8	0.17	0.0010	mg/L (PPM)	MR	9/25/2023	EPA 3005A
MANGANESE DISS EPA 200.8	0.21	0.0010	mg/L (PPM)	MR	9/25/2023	EPA 3005A

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DISS = DISSOLVED

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PROJECT NO: 2018100136.02
LOCATION: HAYES 22
MI
SAMPLED BY: BH/GCES
SAMPLE ID: RW-103-BLD

GTA PROJECT NO: 092123-13
GTA SAMPLE NO: 2
DATE SAMPLED: 9/21/2023
TIME SAMPLED: 1:35 PM
DATE RECEIVED: 9/21/2023
TIME RECEIVED: 4:00 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	9/25/2023	EPA 3005A
IRON DISS EPA 200.8	2.2	0.0010	mg/L (PPM)	MR	9/25/2023	EPA 3005A
MANGANESE DISS EPA 200.8	0.059	0.0010	mg/L (PPM)	MR	9/25/2023	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100136.02
LOCATION: HAYES 22
MI
SAMPLED BY: BH/GCES
SAMPLE ID: RW-105-BLD

GTA PROJECT NO: 092123-13
GTA SAMPLE NO: 3
DATE SAMPLED: 9/21/2023
TIME SAMPLED: 1:40 PM
DATE RECEIVED: 9/21/2023
TIME RECEIVED: 4:00 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	9/25/2023	EPA 3005A
IRON DISS EPA 200.8	1.9	0.0010	mg/L (PPM)	MR	9/25/2023	EPA 3005A
MANGANESE DISS EPA 200.8	0.080	0.0010	mg/L (PPM)	MR	9/25/2023	EPA 3005A

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PROJECT NO: 2018100136.02
LOCATION: HAYES 22
MI
SAMPLED BY: BH/GCES
SAMPLE ID: TOWER EFF.

GTA PROJECT NO: 092123-13
GTA SAMPLE NO: 4
DATE SAMPLED: 9/21/2023
TIME SAMPLED: 1:45 PM
DATE RECEIVED: 9/21/2023
TIME RECEIVED: 4:00 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	9/25/2023	EPA 3005A
IRON DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	9/25/2023	EPA 3005A
MANGANESE DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	9/25/2023	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 092123-13

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 1

LOCATION: HAYES 22

DATE SAMPLED: 9/21/2023

TIME SAMPLED: 1:30 PM

DATE RECEIVED: 9/21/2023

TIME RECEIVED: 4:00 PM

SAMPLED BY: MI
BH/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: RW-101-BLD

CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
21	10	mg/L (PPM)	KC/TR	10/3/2023	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: 092123-13

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 2

LOCATION: HAYES 22

DATE SAMPLED: 9/21/2023

TIME SAMPLED: 1:35 PM

DATE RECEIVED: 9/21/2023

TIME RECEIVED: 4:00 PM

SAMPLED BY: MI
BH/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: RW-103-BLD

CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
26	10	mg/L (PPM)	KC/TR	10/3/2023	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: 092123-13

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 3

LOCATION: HAYES 22

DATE SAMPLED: 9/21/2023

TIME SAMPLED: 1:40 PM

DATE RECEIVED: 9/21/2023

TIME RECEIVED: 4:00 PM

SAMPLED BY: MI
BH/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: RW-105-BLD

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	10/3/2023	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: 092123-13

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 4

LOCATION: HAYES 22

DATE SAMPLED: 9/21/2023

TIME SAMPLED: 1:45 PM

DATE RECEIVED: 9/21/2023

TIME RECEIVED: 4:00 PM

SAMPLED BY: MI
BH/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: TOWER EFF.
CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
44	10	mg/L (PPM)	KC/TR	10/3/2023	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

CHAIN OF CUSTODY

PROJECT NUMBER 2018100136-02	SITE NAME/ADDRESS Hayes 22	COMPANY/NAME Lambda Energy Resources
SAMPLED BY BH	COMPANY GCEs	GTA PROJECT # 092123-13

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
	RW 101 - Bldg	9/21/23	1:30 PM	GW	STEX, chloride, Dissolved
	RW 103 - Bldg		1:35 PM		Iron, Manganese, Arsenic
	RW 1045 - Bldg		1:40 PM		
	RW Tower Eff.		1:45 PM		

BILL TO: Lambda	TempRec: ☐ 3.10°C	On Ice? ☒ Y ☐ N	REPORT TO:
RELEASED BY Brendan Hulbert	DATE/TIME 9/21/23	RECEIVED BY [Signature]	DATE/TIME 9/21/23 4:00
REQUESTED TAT ☒ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS			