

**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: 021224-4

Site Addr: HAYES 22

Sampled By: BH/GCES

Date Rec: 2/12/2024

Time Rec: 3:20 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	RW-101 BLDG	2/12/2024	1:15 PM	WATER
2	RW-102 BLDG	2/12/2024	1:15 PM	WATER
3	RW-103 BLDG	2/12/2024	1:15 PM	WATER
4	RW-105 BLDG	2/12/2024	1:15 PM	WATER
5	TOWER EFF	2/12/2024	1:15 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 BLDG

GTA PROJECT NO: 021224-4
GTA SAMPLE NO: 1
DATE SAMPLED: 2/12/2024
TIME SAMPLED: 1:15 PM
DATE RECEIVED: 2/12/2024
TIME RECEIVED: 3:20 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		2/15/2024	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 BLDG

GTA PROJECT NO: 021224-4
GTA SAMPLE NO: 2
DATE SAMPLED: 2/12/2024
TIME SAMPLED: 1:15 PM
DATE RECEIVED: 2/12/2024
TIME RECEIVED: 3:20 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		2/15/2024	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100136.02
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-103 BLDG

GTA PROJECT NO: 021224-4
GTA SAMPLE NO: 3
DATE SAMPLED: 2/12/2024
TIME SAMPLED: 1:15 PM
DATE RECEIVED: 2/12/2024
TIME RECEIVED: 3:20 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	15	1.0	ug/L (PPB)	MR		2/15/2024	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	16	1.0					
Xylene(Total)	20	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 BLDG

GTA PROJECT NO: 021224-4
GTA SAMPLE NO: 4
DATE SAMPLED: 2/12/2024
TIME SAMPLED: 1:15 PM
DATE RECEIVED: 2/12/2024
TIME RECEIVED: 3:20 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	9.3	1.0	ug/L (PPB)	MR		2/15/2024	EPA 5030B
Toluene	2.5	1.0					
Ethylbenzene	44	1.0					
Xylene(Total)	72	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: 021224-4
GTA SAMPLE NO: 5
DATE SAMPLED: 2/12/2024
TIME SAMPLED: 1:15 PM
DATE RECEIVED: 2/12/2024
TIME RECEIVED: 3:20 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		2/15/2024	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100136.02
LOCATION: HAYES 22
SAMPLED BY: MI
BH/GCES
SAMPLE ID: RW-101 BLDG

GTA PROJECT NO: 021224-4
GTA SAMPLE NO: 1
DATE SAMPLED: 2/12/2024
TIME SAMPLED: 1:15 PM
DATE RECEIVED: 2/12/2024
TIME RECEIVED: 3:20 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	2/13/2024	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	2/13/2024	EPA 3005A
MANGANESE DISS EPA 200.8	0.064	0.0010	mg/L (PPM)	MR	2/13/2024	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-102 BLDG

GTA PROJECT NO: 021224-4
GTA SAMPLE NO: 2
DATE SAMPLED: 2/12/2024
TIME SAMPLED: 1:15 PM
DATE RECEIVED: 2/12/2024
TIME RECEIVED: 3:20 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	0.0027	0.0010	mg/L (PPM)	MR	2/13/2024	EPA 3005A
IRON DISS EPA 200.8	0.43	0.050	mg/L (PPM)	MR	2/13/2024	EPA 3005A
MANGANESE DISS EPA 200.8	0.013	0.0010	mg/L (PPM)	MR	2/13/2024	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021224-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 3

LOCATION: HAYES 22

DATE SAMPLED: 2/12/2024

TIME SAMPLED: 1:15 PM

DATE RECEIVED: 2/12/2024

TIME RECEIVED: 3:20 PM

SAMPLED BY: MI

SAMPLE MATRIX: WATER

BH/GCES

SAMPLE ID: RW-103 BLDG

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	0.0029	0.0010	mg/L (PPM)	MR	2/13/2024	EPA 3005A
IRON DISS EPA 200.8	1.5	0.050	mg/L (PPM)	MR	2/13/2024	EPA 3005A
MANGANESE DISS EPA 200.8	0.014	0.0010	mg/L (PPM)	MR	2/13/2024	EPA 3005A

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PROJECT NO: 2018100136.02
LOCATION: HAYES 22
SAMPLED BY: MI
BH/GCES
SAMPLE ID: RW-105 BLDG

GTA PROJECT NO: 021224-4
GTA SAMPLE NO: 4
DATE SAMPLED: 2/12/2024
TIME SAMPLED: 1:15 PM
DATE RECEIVED: 2/12/2024
TIME RECEIVED: 3:20 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	0.0025	0.0010	mg/L (PPM)	MR	2/13/2024	EPA 3005A
IRON DISS EPA 200.8	1.3	0.050	mg/L (PPM)	MR	2/13/2024	EPA 3005A
MANGANESE DISS EPA 200.8	0.020	0.0010	mg/L (PPM)	MR	2/13/2024	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: 021224-4
GTA SAMPLE NO: 5
DATE SAMPLED: 2/12/2024
TIME SAMPLED: 1:15 PM
DATE RECEIVED: 2/12/2024
TIME RECEIVED: 3:20 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	2/13/2024	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	2/13/2024	EPA 3005A
MANGANESE DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	2/13/2024	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021224-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 1

LOCATION: HAYES 22

DATE SAMPLED: 2/12/2024

TIME SAMPLED: 1:15 PM

DATE RECEIVED: 2/12/2024

TIME RECEIVED: 3:20 PM

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

SAMPLE ID: RW-101 BLDG

CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
ND	10	mg/L (PPM)	KC/TR	2/17/2024	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: 021224-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 2

LOCATION: HAYES 22

DATE SAMPLED: 2/12/2024

TIME SAMPLED: 1:15 PM

DATE RECEIVED: 2/12/2024

TIME RECEIVED: 3:20 PM

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

SAMPLE ID: RW-102 BLDG

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	2/17/2024	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: 021224-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 3

LOCATION: HAYES 22

DATE SAMPLED: 2/12/2024

TIME SAMPLED: 1:15 PM

DATE RECEIVED: 2/12/2024

TIME RECEIVED: 3:20 PM

SAMPLED BY: MI
BH/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: RW-103 BLDG

CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
20	10	mg/L (PPM)	KC/TR	2/17/2024	WATER

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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: 021224-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 4

LOCATION: HAYES 22

DATE SAMPLED: 2/12/2024

TIME SAMPLED: 1:15 PM

DATE RECEIVED: 2/12/2024

TIME RECEIVED: 3:20 PM

SAMPLED BY: MI
BH/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: RW-105 BLDG

CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
14	10	mg/L (PPM)	KC/TR	2/17/2024	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021224-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 5

LOCATION: HAYES 22

DATE SAMPLED: 2/12/2024

TIME SAMPLED: 1:15 PM

DATE RECEIVED: 2/12/2024

TIME RECEIVED: 3:20 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>
28	10	mg/L (PPM)	KC/TR	2/17/2024	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

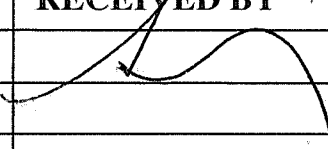
s.u. = STANDARD pH UNITS REPORTED AT 25 C

CHAIN OF CUSTODY

PROJECT NUMBER 2018 100 136.02	SITE NAME/ADDRESS Hayes 22	COMPANY/NAME Lambda
SAMPLED BY BH	COMPANY GLCS	GTA PROJECT # 021224-4

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	RW 101 Bldg	2/12/24	1:15pm	GW	BTEX, chloride, Dissolved Metals Iron, Manganese, Arsenic
2	RW 102 Bldg				
3	RW 103 Bldg				
4	RW 105 Bldg				
5	Tower Eff				

BILL TO: Lambda	TempRec: ☐ 3.7°C	On Ice? ☒ Y ☐ N	REPORT TO:
RELEASED BY Brandon Paulsen	DATE/TIME 2/12/24 3:20	RECEIVED BY 	DATE/TIME 2/12/24 3:20
REQUESTED TAT ☒ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS			