

**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

GTA ProjNo: 042624-14

Site Addr: HAYES 22

Sampled By: BRENDON HOLBROOK/GCES

Date Rec: 4/26/2024

Time Rec: 3:30 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	RW-101 BLD	4/26/2024		WATER
2	RW-102 BLD	4/26/2024		WATER
3	RW-103 BLD	4/26/2024		WATER
4	RW-105 BLD	4/26/2024		WATER
5	TOWER EFF	4/26/2024		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: 2018100136
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-101 BLD

GTA PROJECT NO: 042624-14
GTA SAMPLE NO: 1
DATE SAMPLED: 4/26/2024
TIME SAMPLED:
DATE RECEIVED: 4/26/2024
TIME RECEIVED: 3:30 PM
SAMPLED BY: BRENDON HOLBROOK/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		4/28/2024	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
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-102 BLD

GTA PROJECT NO: 042624-14
GTA SAMPLE NO: 2
DATE SAMPLED: 4/26/2024
TIME SAMPLED:
DATE RECEIVED: 4/26/2024
TIME RECEIVED: 3:30 PM
SAMPLED BY: BRENDON HOLBROOK/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		4/28/2024	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.

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PROJECT NO: 2018100136
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-103 BLD

GTA PROJECT NO: 042624-14
GTA SAMPLE NO: 3
DATE SAMPLED: 4/26/2024
TIME SAMPLED:
DATE RECEIVED: 4/26/2024
TIME RECEIVED: 3:30 PM
SAMPLED BY: BRENDON HOLBROOK/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	12	1.0	ug/L (PPB)	MR		4/28/2024	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	12	1.0					
Xylene(Total)	16	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100136
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-105 BLD

GTA PROJECT NO: 042624-14
GTA SAMPLE NO: 4
DATE SAMPLED: 4/26/2024
TIME SAMPLED:
DATE RECEIVED: 4/26/2024
TIME RECEIVED: 3:30 PM
SAMPLED BY: BRENDON HOLBROOK/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	10	1.0	ug/L (PPB)	MR		4/28/2024	EPA 5030B
Toluene	5.2	1.0					
Ethylbenzene	41	1.0					
Xylene(Total)	71	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100136
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: TOWER EFF

GTA PROJECT NO: 042624-14
GTA SAMPLE NO: 5
DATE SAMPLED: 4/26/2024
TIME SAMPLED:
DATE RECEIVED: 4/26/2024
TIME RECEIVED: 3:30 PM
SAMPLED BY: BRENDON HOLBROOK/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		4/28/2024	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.

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PROJECT NO: 2018100136
LOCATION: HAYES 22
DATE SAMPLED: 4/26/2024
TIME SAMPLED:
DATE RECEIVED: 4/26/2024
TIME RECEIVED: 3:30 PM
SAMPLE MATRIX: WATER
SAMPLED BY: MI
BRENDON HOLBROOK/GCES
SAMPLE ID: RW-101 BLD

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	4/30/2024	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	4/30/2024	EPA 3005A
MANGANESE DISS EPA 200.8	0.064	0.0010	mg/L (PPM)	MR	4/30/2024	EPA 3005A

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PROJECT NO: 2018100136
LOCATION: HAYES 22
MI
SAMPLED BY: BRENDON HOLBROOK/GCES
SAMPLE ID: RW-102 BLD

GTA PROJECT NO: 042624-14
GTA SAMPLE NO: 2
DATE SAMPLED: 4/26/2024
TIME SAMPLED:
DATE RECEIVED: 4/26/2024
TIME RECEIVED: 3:30 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	4/30/2024	EPA 3005A
IRON DISS EPA 200.8	0.32	0.050	mg/L (PPM)	MR	4/30/2024	EPA 3005A
MANGANESE DISS EPA 200.8	0.072	0.0010	mg/L (PPM)	MR	4/30/2024	EPA 3005A

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PROJECT NO: 2018100136
LOCATION: HAYES 22
DATE SAMPLED: 4/26/2024
TIME SAMPLED:
DATE RECEIVED: 4/26/2024
TIME RECEIVED: 3:30 PM
SAMPLE MATRIX: WATER
SAMPLED BY: MI
BRENDON HOLBROOK/GCES
SAMPLE ID: RW-103 BLD

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	0.0024	0.0010	mg/L (PPM)	MR	4/30/2024	EPA 3005A
IRON DISS EPA 200.8	0.98	0.050	mg/L (PPM)	MR	4/30/2024	EPA 3005A
MANGANESE DISS EPA 200.8	0.077	0.0010	mg/L (PPM)	MR	4/30/2024	EPA 3005A

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LOCATION: HAYES 22
DATE SAMPLED: 4/26/2024
TIME SAMPLED:
DATE RECEIVED: 4/26/2024
TIME RECEIVED: 3:30 PM
SAMPLE MATRIX: WATER
SAMPLED BY: MI
BRENDON HOLBROOK/GCES
SAMPLE ID: RW-105 BLD

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	0.0026	0.0010	mg/L (PPM)	MR	4/30/2024	EPA 3005A
IRON DISS EPA 200.8	1.6	0.050	mg/L (PPM)	MR	4/30/2024	EPA 3005A
MANGANESE DISS EPA 200.8	0.12	0.0010	mg/L (PPM)	MR	4/30/2024	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100136
LOCATION: HAYES 22
MI
SAMPLED BY: BRENDON HOLBROOK/GCES
SAMPLE ID: TOWER EFF

GTA PROJECT NO: 042624-14
GTA SAMPLE NO: 5
DATE SAMPLED: 4/26/2024
TIME SAMPLED:
DATE RECEIVED: 4/26/2024
TIME RECEIVED: 3:30 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	4/30/2024	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	4/30/2024	EPA 3005A
MANGANESE DISS EPA 200.8	0.0024	0.0010	mg/L (PPM)	MR	4/30/2024	EPA 3005A

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LOD = LIMIT OF DETECTION

DISS = DISSOLVED



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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 042624-14

PROJECT NO: 2018100136

GTA SAMPLE NO: 1

LOCATION: HAYES 22

DATE SAMPLED: 4/26/2024

TIME SAMPLED:

DATE RECEIVED: 4/26/2024

TIME RECEIVED: 3:30 PM

MI

SAMPLED BY: BRENDON HOLBROOK/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: RW-101 BLD

CHLORIDE EPA 300.0

Concentration

12

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

4/29/2024

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: 042624-14

PROJECT NO: 2018100136

GTA SAMPLE NO: 2

LOCATION: HAYES 22

DATE SAMPLED: 4/26/2024

TIME SAMPLED:

DATE RECEIVED: 4/26/2024

TIME RECEIVED: 3:30 PM

MI

SAMPLED BY: BRENDON HOLBROOK/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: RW-102 BLD

CHLORIDE EPA 300.0

Concentration

21

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

4/29/2024

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: 042624-14

PROJECT NO: 2018100136

GTA SAMPLE NO: 3

LOCATION: HAYES 22

DATE SAMPLED: 4/26/2024

TIME SAMPLED:

DATE RECEIVED: 4/26/2024

TIME RECEIVED: 3:30 PM

MI

SAMPLED BY: BRENDON HOLBROOK/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: RW-103 BLD

CHLORIDE EPA 300.0

Concentration

18

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

4/29/2024

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: 042624-14

PROJECT NO: 2018100136

GTA SAMPLE NO: 4

LOCATION: HAYES 22

DATE SAMPLED: 4/26/2024

TIME SAMPLED:

DATE RECEIVED: 4/26/2024

TIME RECEIVED: 3:30 PM

MI

SAMPLED BY: BRENDON HOLBROOK/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: RW-105 BLD

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample Matrix

ND

10

mg/L (PPM)

KC/TR

4/29/2024

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: 042624-14

PROJECT NO: 2018100136

GTA SAMPLE NO: 5

LOCATION: HAYES 22

DATE SAMPLED: 4/26/2024

TIME SAMPLED:

DATE RECEIVED: 4/26/2024

TIME RECEIVED: 3:30 PM

MI

SAMPLED BY: BRENDON HOLBROOK/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: TOWER EFF

CHLORIDE EPA 300.0

Concentration

56

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

4/29/2024

Sample Matrix

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

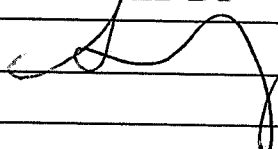
s.u. = STANDARD pH UNITS REPORTED AT 25 C

CHAIN OF CUSTODY

PROJECT NUMBER 2018100136	SITE NAME/ADDRESS Hayes 22	COMPANY/NAME Lambda
SAMPLED BY Brendan Holbrook	COMPANY GLCS	GTA PROJECT # 042624-14

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	RW-101 Bldg	4/26/24		GW	BTEX, chloride, Dissolved Iron, Manganese, Arsenic
2	RW-102 Bldg				
3	RW-103 Bldg				
4	RW-105 Bldg				
5	Tower Eff				

BILL TO: Lambda	TempRec: ☐ 5.6°C	On Ice? ☒ ☐	REPORT TO: Mark Hurley
RELEASED BY Brendan Holbrook	DATE/TIME 4/26 3:30	RECEIVED BY 	DATE/TIME 4/26/24 3:30
REQUESTED TAT ☒ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS			