

**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: 071624-4

Site Addr: HAYES 22

Sampled By: BH/GCES

Date Rec: 7/16/2024

Time Rec: 4:10 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	RW-101 BLDG	7/16/2024	2:30 PM	WATER
2	RW-102 BLDG	7/16/2024	2:30 PM	WATER
3	RW-103 BLDG	7/16/2024	2:30 PM	WATER
4	RW-105 BLDG	7/16/2024	2:30 PM	WATER
5	TOWER EFF	7/16/2024	2:30 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	GTA PROJECT NO:	071624-4
PROJECT NO:	2018100136.02	GTA SAMPLE NO:	1
LOCATION:	HAYES 22	DATE SAMPLED:	7/16/2024
		TIME SAMPLED:	2:30 PM
		DATE RECEIVED:	7/16/2024
	MI	TIME RECEIVED:	4:10 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	RW-101 BLDG	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		7/16/2024	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	GTA PROJECT NO:	071624-4
PROJECT NO:	2018100136.02	GTA SAMPLE NO:	2
LOCATION:	HAYES 22	DATE SAMPLED:	7/16/2024
		TIME SAMPLED:	2:30 PM
		DATE RECEIVED:	7/16/2024
	MI	TIME RECEIVED:	4:10 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	RW-102 BLDG	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		7/16/2024	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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COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	071624-4
PROJECT NO:	2018100136.02	GTA SAMPLE NO:	3
LOCATION:	HAYES 22	DATE SAMPLED:	7/16/2024
		TIME SAMPLED:	2:30 PM
		DATE RECEIVED:	7/16/2024
	MI	TIME RECEIVED:	4:10 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	RW-103 BLDG	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	20	1.0	ug/L (PPB)	MR		7/16/2024	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	20	1.0					
Xylene(Total)	26	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-105 BLDG
GTA PROJECT NO: 071624-4
GTA SAMPLE NO: 4
DATE SAMPLED: 7/16/2024
TIME SAMPLED: 2:30 PM
DATE RECEIVED: 7/16/2024
TIME RECEIVED: 4:10 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	13	1.0	ug/L (PPB)	MR		7/16/2024	EPA 5030B
Toluene	8.9	1.0					
Ethylbenzene	50	1.0					
Xylene(Total)	85	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: TOWER EFF
GTA PROJECT NO: 071624-4
GTA SAMPLE NO: 5
DATE SAMPLED: 7/16/2024
TIME SAMPLED: 2:30 PM
DATE RECEIVED: 7/16/2024
TIME RECEIVED: 4:10 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		7/16/2024	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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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 071624-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 1

LOCATION: HAYES 22

DATE SAMPLED: 7/16/2024

TIME SAMPLED: 2:30 PM

DATE RECEIVED: 7/16/2024

TIME RECEIVED: 4:10 PM

SAMPLED BY: MI
BH/GCES

SAMPLE MATRIX: WATER

SAMPLE ID: RW-101 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	ND	0.0010	mg/L (PPM)	MR	7/17/2024	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	7/17/2024	EPA 3005A
MANGANESE DISS EPA 200.8	0.098	0.0010	mg/L (PPM)	MR	7/17/2024	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: 071624-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 2

LOCATION: HAYES 22

DATE SAMPLED: 7/16/2024

TIME SAMPLED: 2:30 PM

DATE RECEIVED: 7/16/2024

TIME RECEIVED: 4:10 PM

SAMPLED BY: MI
BH/GCES

SAMPLE MATRIX: WATER

SAMPLE ID: RW-102 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	0.0020	0.0010	mg/L (PPM)	MR	7/17/2024	EPA 3005A
IRON DISS EPA 200.8	0.46	0.050	mg/L (PPM)	MR	7/17/2024	EPA 3005A
MANGANESE DISS EPA 200.8	0.064	0.0010	mg/L (PPM)	MR	7/17/2024	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 071624-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 3

LOCATION: HAYES 22

DATE SAMPLED: 7/16/2024

TIME SAMPLED: 2:30 PM

DATE RECEIVED: 7/16/2024

TIME RECEIVED: 4:10 PM

SAMPLED BY: MI
BH/GCES

SAMPLE MATRIX: WATER

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	7/17/2024	EPA 3005A
IRON DISS EPA 200.8	1.9	0.050	mg/L (PPM)	MR	7/17/2024	EPA 3005A
MANGANESE DISS EPA 200.8	0.092	0.0010	mg/L (PPM)	MR	7/17/2024	EPA 3005A

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GTA PROJECT NO: 071624-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 4

LOCATION: HAYES 22

DATE SAMPLED: 7/16/2024

TIME SAMPLED: 2:30 PM

DATE RECEIVED: 7/16/2024

TIME RECEIVED: 4:10 PM

SAMPLED BY: MI
BH/GCES

SAMPLE MATRIX: WATER

SAMPLE ID: RW-105 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	0.0021	0.0010	mg/L (PPM)	MR	7/17/2024	EPA 3005A
IRON DISS EPA 200.8	1.3	0.050	mg/L (PPM)	MR	7/17/2024	EPA 3005A
MANGANESE DISS EPA 200.8	0.11	0.0010	mg/L (PPM)	MR	7/17/2024	EPA 3005A

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GTA PROJECT NO: 071624-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 5

LOCATION: HAYES 22

DATE SAMPLED: 7/16/2024

TIME SAMPLED: 2:30 PM

DATE RECEIVED: 7/16/2024

TIME RECEIVED: 4:10 PM

SAMPLED BY: MI
BH/GCES

SAMPLE MATRIX: WATER

SAMPLE ID: TOWER EFF

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	7/17/2024	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	7/17/2024	EPA 3005A
MANGANESE DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	7/17/2024	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

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: 071624-4

GTA SAMPLE NO: 1

DATE SAMPLED: 7/16/2024

TIME SAMPLED: 2:30 PM

DATE RECEIVED: 7/16/2024

TIME RECEIVED: 4:10 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	7/19/2024	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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



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GTA PROJECT NO: 071624-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 2

LOCATION: HAYES 22

DATE SAMPLED: 7/16/2024

TIME SAMPLED: 2:30 PM

DATE RECEIVED: 7/16/2024

TIME RECEIVED: 4:10 PM

MI

SAMPLED BY: BH/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: RW-102 BLDG

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample Matrix

15

10

mg/L (PPM)

KC/TR

7/19/2024

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: 071624-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 3

LOCATION: HAYES 22

DATE SAMPLED: 7/16/2024

TIME SAMPLED: 2:30 PM

DATE RECEIVED: 7/16/2024

TIME RECEIVED: 4:10 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>
14	10	mg/L (PPM)	KC/TR	7/19/2024	WATER

ND = NOT DETECTED, RESULT < LOD

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



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GTA PROJECT NO: 071624-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 4

LOCATION: HAYES 22

DATE SAMPLED: 7/16/2024

TIME SAMPLED: 2:30 PM

DATE RECEIVED: 7/16/2024

TIME RECEIVED: 4:10 PM

MI

SAMPLED BY: 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>
ND	10	mg/L (PPM)	KC/TR	7/19/2024	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: 071624-4

PROJECT NO: 2018100136.02

GTA SAMPLE NO: 5

LOCATION: HAYES 22

DATE SAMPLED: 7/16/2024

TIME SAMPLED: 2:30 PM

DATE RECEIVED: 7/16/2024

TIME RECEIVED: 4:10 PM

SAMPLED BY: MI
BH/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: TOWER EFF

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample Matrix

18

10

mg/L (PPM)

KC/TR

7/19/2024

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

CHAIN OF CUSTODY

PROJECT NUMBER 2018100136.02	SITE NAME/ADDRESS Hayes 22	COMPANY/NAME Lambda
SAMPLED BY BH	COMPANY GLCS	GTA PROJECT # 071624-4

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	RW 101 Bldg	6/17/24	2:30pm	GW	BTEX, chloride, Dissolved iron manganese, Arsenic
2	RW 102 Bldg	7/16/24		GW	
3	RW 103 Bldg				
4	RW 105 Bldg				
5	Tower Eff				

BILL TO: Lambda	TempRec: ☐ 3.9°	On Ice? ☒ Y ☐ N	REPORT TO: m.j.hurley@gastlingczutak.com
RELEASED BY Brian Hurley	DATE/TIME 6/17/24 4:10	RECEIVED BY [Signature]	DATE/TIME 6/17/24 7:16/24 4:10
REQUESTED TAT ☒ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS			