

**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: 2018100106.01

GTA ProjNo: 072619-7

Site Addr: HAYES 22 CPF

Sampled By: JOSHUA GERRIE/GCES

Date Rec: 7/26/2019

Time Rec: 3:50 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	RW-201	7/26/2019	11:20 AM	WATER
2	RW-202	7/26/2019	11:30 AM	WATER
3	MW-133D3	7/26/2019	12:05 PM	WATER
4	MW-134D3	7/26/2019	11:40 AM	WATER
5	MW-135D3	7/26/2019	12:15 PM	WATER
6	MW-136D3	7/26/2019	11:50 AM	WATER
7	MW-127D2	7/26/2019	1:01 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 L 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: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-201
GTA PROJECT NO: 072619-7
GTA SAMPLE NO: 1
DATE SAMPLED: 7/26/2019
TIME SAMPLED: 11:20 AM
DATE RECEIVED: 7/26/2019
TIME RECEIVED: 3:50 PM
SAMPLED BY: JOSHUA GERRIE/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 Complete</u>	<u>Prep Method</u>
Benzene	1.1	1.0	ug/L (PPB)	MR		7/29/2019	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: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-202

GTA PROJECT NO: 072619-7
GTA SAMPLE NO: 2
DATE SAMPLED: 7/26/2019
TIME SAMPLED: 11:30 AM
DATE RECEIVED: 7/26/2019
TIME RECEIVED: 3:50 PM
SAMPLED BY: JOSHUA GERRIE/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 Complete</u>	<u>Prep Method</u>
Benzene	3.7	1.0	ug/L (PPB)	MR		7/29/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-133D3

GTA PROJECT NO: 072619-7
GTA SAMPLE NO: 3
DATE SAMPLED: 7/26/2019
TIME SAMPLED: 12:05 PM
DATE RECEIVED: 7/26/2019
TIME RECEIVED: 3:50 PM
SAMPLED BY: JOSHUA GERRIE/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 Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		7/29/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-134D3

GTA PROJECT NO: 072619-7
GTA SAMPLE NO: 4
DATE SAMPLED: 7/26/2019
TIME SAMPLED: 11:40 AM
DATE RECEIVED: 7/26/2019
TIME RECEIVED: 3:50 PM
SAMPLED BY: JOSHUA GERRIE/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 Complete</u>	<u>Prep Method</u>
Benzene	1.6	1.0	ug/L (PPB)	MR		7/29/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-135D3

GTA PROJECT NO: 072619-7
GTA SAMPLE NO: 5
DATE SAMPLED: 7/26/2019
TIME SAMPLED: 12:15 PM
DATE RECEIVED: 7/26/2019
TIME RECEIVED: 3:50 PM
SAMPLED BY: JOSHUA GERRIE/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 Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		7/29/2019	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: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-136D3

GTA PROJECT NO: 072619-7
GTA SAMPLE NO: 6
DATE SAMPLED: 7/26/2019
TIME SAMPLED: 11:50 AM
DATE RECEIVED: 7/26/2019
TIME RECEIVED: 3:50 PM
SAMPLED BY: JOSHUA GERRIE/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 Complete</u>	<u>Prep Method</u>
Benzene	6.0	1.0	ug/L (PPB)	MR		7/29/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-127D2

GTA PROJECT NO: 072619-7
GTA SAMPLE NO: 7
DATE SAMPLED: 7/26/2019
TIME SAMPLED: 1:01 PM
DATE RECEIVED: 7/26/2019
TIME RECEIVED: 3:50 PM
SAMPLED BY: JOSHUA GERRIE/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 Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		7/29/2019	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: 072619-7

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 1

LOCATION: HAYES 22 CPF

DATE SAMPLED: 7/26/2019

TIME SAMPLED: 11:20 AM

DATE RECEIVED: 7/26/2019

TIME RECEIVED: 3:50 PM

MI

SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: RW-201							
CHLORIDE EPA 300.0		21	10	mg/L (PPM)	LV	7/30/2019	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: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLED BY: JOSHUA GERRIE/GCES

GTA PROJECT NO: 072619-7
GTA SAMPLE NO: 2
DATE SAMPLED: 7/26/2019
TIME SAMPLED: 11:30 AM
DATE RECEIVED: 7/26/2019
TIME RECEIVED: 3:50 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: RW-202							
CHLORIDE EPA 300.0		ND	10	mg/L (PPM)	LV	7/30/2019	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: 072619-7

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 3

LOCATION: HAYES 22 CPF

DATE SAMPLED: 7/26/2019

TIME SAMPLED: 12:05 PM

DATE RECEIVED: 7/26/2019

TIME RECEIVED: 3:50 PM

MI

SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-133D3

CHLORIDE EPA 300.0

Concentration

16

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date

7/30/2019

Sample

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: 072619-7

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 4

LOCATION: HAYES 22 CPF

DATE SAMPLED: 7/26/2019

TIME SAMPLED: 11:40 AM

DATE RECEIVED: 7/26/2019

TIME RECEIVED: 3:50 PM

MI

SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: MW-134D3

CHLORIDE EPA 300.0

Concentration

12

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date

7/30/2019

Sample

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: 072619-7

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 5

LOCATION: HAYES 22 CPF

DATE SAMPLED: 7/26/2019

TIME SAMPLED: 12:15 PM

DATE RECEIVED: 7/26/2019

TIME RECEIVED: 3:50 PM

MI

SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-135D3

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date

7/30/2019

Sample

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: 072619-7

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 6

LOCATION: HAYES 22 CPF

DATE SAMPLED: 7/26/2019

TIME SAMPLED: 11:50 AM

DATE RECEIVED: 7/26/2019

TIME RECEIVED: 3:50 PM

MI

SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-136D3

CHLORIDE EPA 300.0

Concentration

21

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date

7/30/2019

Sample

WATER

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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 072619-7

GTA SAMPLE NO: 7

PROJECT NO: 2018100106.01

LOCATION: HAYES 22 CPF

DATE SAMPLED: 7/26/2019

TIME SAMPLED: 1:01 PM

DATE RECEIVED: 7/26/2019

TIME RECEIVED: 3:50 PM

MI

SAMPLED BY: JOSHUA GERRIE/GCES

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: MW-127D2

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date

7/30/2019

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

CHAIN OF CUSTODY

PROJECT NUMBER 2018100106.01	SITE NAME/ADDRESS Hayes 22 CPF	COMPANY/NAME Lambda Energy Resources
SAMPLED BY Joshua Gerrie	COMPANY Gosling Czubak	GTA PROJECT # 072619-7

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	RW-201	7-26-19	1120	GW	BTEX & Chloride
2	RW-202		1130		
3	MW-133d3		1205		
4	MW-134d3		1140		
5	MW-135d3		1215		
6	MW-136d3		1150		
7	MW-127d2	↓	1301	↓	↓

BILL TO:

REPORT TO:

Lambda Energy Resources

Adam Biteman

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

Joshua Gerrie 7-26-19/1550

Adam Biteman 7/26/19 3:50
rec'd

REQUESTED TAT

☒ STANDARD

☐ 1 BUSINESS DAY

☐ 2 BUSINESS DAYS

☐ 3 BUSINESS DAYS