



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: 2018100137.01
GTA ProjNo: 020419-5

Site Addr: BEAR LAKE 32 CPF

Sampled By: MARK STOVER/GCES
Date Rec: 2/4/2019
Time Rec: 4:20 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-2 (26')	2/4/2019		WATER
2	MW-9	2/4/2019		WATER
3	MW-27	2/4/2019		WATER
4	MW-28	2/4/2019		WATER
5	OW-1C	2/4/2019		WATER
6	OW-3C	2/4/2019		WATER
7	MW-23	2/4/2019		WATER
8	MW-6	2/4/2019		WATER
9	MW-15	2/4/2019		WATER
10	MW-11R	2/4/2019		WATER
11	MW-4	2/4/2019		WATER
12	MW-17 (50')	2/4/2019		WATER
13	MW-18 (41')	2/4/2019		WATER
14	MW-16 (37')	2/4/2019		WATER
15	MW-17 (42')	2/4/2019		WATER
16	MW-26	2/4/2019		WATER
17	MW-17 (35')	2/4/2019		WATER
18	MW-25 (28')	2/4/2019		WATER
19	MW-7	2/4/2019		WATER
20	MW-1AR	2/4/2019		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
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-2 (26')

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 1
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
 DATE RECEIVED: 2/4/2019
 TIME RECEIVED: 4:20 PM

SAMPLED BY: MARK STOVER/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		2/6/2019	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: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-9

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 2
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
 DATE RECEIVED: 2/4/2019
 TIME RECEIVED: 4:20 PM

SAMPLED BY: MARK STOVER/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		2/6/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100137.01
LOCATION: BEAR LAKE 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-27

GTA PROJECT NO: 020419-5
GTA SAMPLE NO: 3
DATE SAMPLED: 2/4/2019
TIME SAMPLED:
DATE RECEIVED: 2/4/2019
TIME RECEIVED: 4:20 PM

SAMPLED BY: MARK STOVER/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		2/6/2019	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: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-28

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 4
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
 DATE RECEIVED: 2/4/2019
 TIME RECEIVED: 4:20 PM

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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		2/6/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	1.1	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: OW-1C

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 5
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
 DATE RECEIVED: 2/4/2019
 TIME RECEIVED: 4:20 PM

SAMPLED BY: MARK STOVER/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		2/7/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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 PROJECT NO: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: OW-3C

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 6
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
 DATE RECEIVED: 2/4/2019
 TIME RECEIVED: 4:20 PM

SAMPLED BY: MARK STOVER/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		2/6/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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 PROJECT NO: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-23

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 7
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
 DATE RECEIVED: 2/4/2019
 TIME RECEIVED: 4:20 PM

SAMPLED BY: MARK STOVER/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		2/6/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	1.8	1.0					
Xylene(Total)	3.1	3.0					

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 PROJECT NO: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-6

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 8
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
 DATE RECEIVED: 2/4/2019
 TIME RECEIVED: 4:20 PM

SAMPLED BY: MARK STOVER/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		2/6/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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 PROJECT NO: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-15

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 9
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
 DATE RECEIVED: 2/4/2019
 TIME RECEIVED: 4:20 PM

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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		2/6/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100137.01
LOCATION: BEAR LAKE 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-11R

GTA PROJECT NO: 020419-5
GTA SAMPLE NO: 10
DATE SAMPLED: 2/4/2019
TIME SAMPLED:
DATE RECEIVED: 2/4/2019
TIME RECEIVED: 4:20 PM

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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	9.5	1.0	ug/L (PPB)	MR		2/7/2019	EPA 5030B
Toluene	350	25					
Ethylbenzene	710	25					
Xylene(Total)	2,600	75					
1,2,4-Trimethylbenzene	340	25					
1,3,5-Trimethylbenzene	78	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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 PROJECT NO: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-4

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 11
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
 DATE RECEIVED: 2/4/2019
 TIME RECEIVED: 4:20 PM

SAMPLED BY: MARK STOVER/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		2/6/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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 PROJECT NO: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-16 (37)

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 14
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
 DATE RECEIVED: 2/4/2019
 TIME RECEIVED: 4:20 PM

SAMPLED BY: MARK STOVER/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		2/6/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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 PROJECT NO: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-17 (42')

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 15
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
 DATE RECEIVED: 2/4/2019
 TIME RECEIVED: 4:20 PM

SAMPLED BY: MARK STOVER/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	6.6	1.0	ug/L (PPB)	MR		2/6/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	18	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-26

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 16
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
 DATE RECEIVED: 2/4/2019
 TIME RECEIVED: 4:20 PM

SAMPLED BY: MARK STOVER/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	40	1.0	ug/L (PPB)	MR		2/7/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	17	1.0					
Xylene(Total)	120	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-17 (35')

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 17
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
 DATE RECEIVED: 2/4/2019
 TIME RECEIVED: 4:20 PM

SAMPLED BY: MARK STOVER/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	3.1	1.0	ug/L (PPB)	MR		2/7/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	5.1	1.0					
Xylene(Total)	15	3.0					
1,2,4-Trimethylbenzene	3.5	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100137.01
LOCATION: BEAR LAKE 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-25 (28')

GTA PROJECT NO: 020419-5
GTA SAMPLE NO: 18
DATE SAMPLED: 2/4/2019
TIME SAMPLED:
DATE RECEIVED: 2/4/2019
TIME RECEIVED: 4:20 PM
SAMPLED BY: MARK STOVER/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	46	10.0	ug/L (PPB)	MR		2/7/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	74	10.0					
Xylene(Total)	740	21.0					
1,2,4-Trimethylbenzene	150	10.0					
1,3,5-Trimethylbenzene	49	1.0					
Naphthalene	5.3	5.0					
2-Methylnaphthalene	6.3	5.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-7

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 19
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
 DATE RECEIVED: 2/4/2019
 TIME RECEIVED: 4:20 PM

SAMPLED BY: MARK STOVER/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	1.6	1.0	ug/L (PPB)	MR		2/7/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	37	1.0					
Xylene(Total)	120	3.0					
1,2,4-Trimethylbenzene	66	1.0					
1,3,5-Trimethylbenzene	20	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100137.01
 LOCATION: BEAR LAKE 32 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-1AR

GTA PROJECT NO: 020419-5
 GTA SAMPLE NO: 20
 DATE SAMPLED: 2/4/2019
 TIME SAMPLED:
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 TIME RECEIVED: 4:20 PM

SAMPLED BY: MARK STOVER/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	120	10.0	ug/L (PPB)	MR		2/7/2019	EPA 5030B
Toluene	1,400	10.0					
Ethylbenzene	390	10.0					
Xylene(Total)	1,300	30.0					
1,2,4-Trimethylbenzene	270	10.0					
1,3,5-Trimethylbenzene	67	1.0					
Naphthalene	5.3	5.0					
2-Methylnaphthalene	15	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
 ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

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www.gtanalytical.com

COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100137.01

LOCATION: BEAR LAKE 32 CPF

GTA PROJECT NO: 020419-5

GTA SAMPLE NO: 18

DATE SAMPLED: 2/4/2019

TIME SAMPLED:

DATE RECEIVED: 2/4/2019

TIME RECEIVED: 4:20 PM

MI

SAMPLED BY: MARK STOVER/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-25 (28')

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample Matrix

ND

2.5

mg/L (PPM)

LV

2/8/2019

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

CHAIN OF CUSTODY

PROJECT NUMBER <i>2018/00137.01</i>	SITE NAME/ADDRESS <i>BEAR LAKE 32 CPF</i>	COMPANY/NAME <i>LAMBDA ENERGY</i>
SAMPLED BY <i>MARK STOVER</i>	COMPANY <i>G.C.E.S.</i>	GTA PROJECT # <i>020419-5</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	<i>MW-2 (26')</i>	<i>2-4-19</i>		<i>GW</i>	<i>BTEX, CHLORIDE</i>
2	<i>MW-9</i>	↓			
3	<i>MW-27</i>				
4	<i>MW-28</i>				
5	<i>OW-1C</i>				
6	<i>OW-3C</i>				
7	<i>MW-23</i>				
8	<i>MW-6</i>				
9	<i>MW-15</i>				
10	<i>MW-11R</i>				<i>BTEX +4</i>

BILL TO: *G.C.E.S.*

REPORT TO: *JEFF SIMSA*

RELEASED BY <i>[Signature]</i>	DATE/TIME <i>2-4-19</i>	RECEIVED BY <i>K. [Signature]</i>	DATE/TIME <i>2/4/19 4:20p</i>
		<i>ru 4.06</i>	

REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS

CHAIN OF CUSTODY

PROJECT NUMBER 2018100137.01	SITE NAME/ADDRESS Bear Lake 32 CPF Lambda Energy Resource	COMPANY/NAME Lambda Energy Resource
SAMPLED BY Joshua Gewrie	COMPANY Gosling Zubak	GTA PROJECT # 020419-5

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
11	MW-4	2-4-19		GW	BTEX + Chloride
12	MW-17(50')	↓		↓	↓
13	MW-18(41')	↓		↓	↓
14	MW-16(37')	↓		↓	↓
15	MW-17(42')	↓		↓	↓
16	MW-26	↓		↓	↓
17	MW-17(35')	↓		↓	BTEX+4 + Chloride
18	MW-25(28')	↓		↓	↓
19	MW-7	↓		↓	↓
20	MW-1AR	↓		↓	↓

BILL TO:

GCES

REPORT TO:

Jeff Simsa

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

[Signature] 2-4-19

[Signature] 2/4/19 4:20p

see 4.00

REQUESTED TAT

STANDARD

1 BUSINESS DAY

2 BUSINESS DAYS

3 BUSINESS DAYS