

**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: 2018100140.01

GTA ProjNo: 021319-2

Site Addr: WHITEWATER 32 CPF

Sampled By: JG/MS - GCES

Date Rec: 2/13/2019

Time Rec: 2:30 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-13S	2/11/2019		WATER
2	MW-5	2/11/2019		WATER
3	MW-12D	2/11/2019		WATER
4	MW-10S	2/11/2019		WATER
5	MW-11S	2/11/2019		WATER
6	MW-11D	2/11/2019		WATER
7	MW-13D	2/11/2019		WATER
8	MW-22D	2/11/2019		WATER
9	MW-33D	2/12/2019		WATER
10	MW-26D	2/12/2019		WATER
11	MW-34D	2/12/2019		WATER
12	MW-34DD	2/12/2019		WATER
13	MW-43DD	2/12/2019		WATER
14	MW-48DD	2/12/2019		WATER
15	MW-37DD	2/12/2019		WATER
16	MW-18D	2/12/2019		WATER
17	MW-9M	2/13/2019		WATER
18	MW-9	2/13/2019		WATER
19	MW-16S	2/13/2019		WATER
20	MW-14DD	2/13/2019		WATER
21	MW-19DD	2/13/2019		WATER
22	MW-19D	2/13/2019		WATER
23	MW-14D	2/13/2019		WATER
24	MW-2	2/13/2019		WATER
25	MW-31D	2/13/2019		WATER
26	MW-8	2/13/2019		WATER
27	MW-17S	2/11/2019		WATER
28	MW-29DD	2/11/2019		WATER
29	MW-35DD	2/11/2019		WATER
30	MW-44DD	2/11/2019		WATER
31	MW-50D	2/12/2019		WATER
32	MW-47DD	2/12/2019		WATER
33	MW-36DD	2/12/2019		WATER
34	MW-30DDD	2/12/2019		WATER
35	MW-42DD	2/12/2019		WATER
36	MW-45DD	2/12/2019		WATER
37	MW-51D	2/12/2019		WATER
38	MW-1D	2/12/2019		WATER
39	MW-49D	2/12/2019		WATER
40	MW-32D	2/13/2019		WATER
41	MW-21D	2/13/2019		WATER



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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: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-13S
GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 1
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	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: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-5

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 2
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	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: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-12D

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 3
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-10S
GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 4
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-11S

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 5
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-11D

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 6
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-13D

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 7
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-22D

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 8
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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	8.9	1.0	ug/L (PPB)	MR		2/15/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	150	5.0					
Xylene(Total)	500	11					
1,2,4-Trimethylbenzene	190	5.0					
1,3,5-Trimethylbenzene	3.0	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-33D

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 9
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-26D

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 10
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-34D

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 11
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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	3.1	1.0	ug/L (PPB)	MR		2/14/2019	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: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-9M

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 17
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	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: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-9

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 18
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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	1.5	1.0	ug/L (PPB)	MR		2/18/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	3.6	1.0					
Xylene(Total)	8.2	3.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	021319-2
PROJECT NO:	2018100140.01	GTA SAMPLE NO:	19
LOCATION:	WHITEWATER 32 CPF	DATE SAMPLED:	2/13/2019
		TIME SAMPLED:	
	MI	DATE RECEIVED:	2/13/2019
		TIME RECEIVED:	2:30 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-16S	SAMPLED BY:	JG/MS - 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	100	10	ug/L (PPB)	MR		2/18/2019	EPA 5030B
Toluene	490	10					
Ethylbenzene	260	10					
Xylene(Total)	1,200	30					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-14DD

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 20
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	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: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-19D

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 22
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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>Complete</u>	<u>Prep Method</u>
Benzene	2.0	1.0	ug/L (PPB)	MR		2/15/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	570	10					
Xylene(Total)	1,500	21					
1,2,4-Trimethylbenzene	240	10					
1,3,5-Trimethylbenzene	41	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-14D

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 23
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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	2.7	1.0	ug/L (PPB)	MR		2/14/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	100	5.0					
Xylene(Total)	77	3.0					
1,2,4-Trimethylbenzene	14	1.0					
1,3,5-Trimethylbenzene	4.1	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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



INDEPENDENT TESTING LAB

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PH: 231-929-0905

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-2
GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 24
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	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: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-31D
GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 25
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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	1.3	1.0	ug/L (PPB)	MR		2/14/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	2.9	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
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-8
GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 26
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	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
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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-17S

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 27
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	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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LOD = LIMIT OF DETECTION

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-50D

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 31
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	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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LOD = LIMIT OF DETECTION

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-51D

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 37
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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	2.2	1.0	ug/L (PPB)	MR		2/14/2019	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: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-1D
GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 38
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	1.2	1.0					
Xylene(Total)	6.2	3.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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LOD = LIMIT OF DETECTION

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-49D

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 39
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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	3.9	1.0	ug/L (PPB)	MR		2/15/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	63	5.0					
Xylene(Total)	300	11					
1,2,4-Trimethylbenzene	130	5.0					
1,3,5-Trimethylbenzene	33	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-32D

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 40
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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	47	1.0	ug/L (PPB)	MR		2/15/2019	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	82	5.0					
Xylene(Total)	300	11					
1,2,4-Trimethylbenzene	190	5.0					
1,3,5-Trimethylbenzene	44	1.0					
Naphthalene	7.2	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-21D

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 41
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 PM
SAMPLED BY: JG/MS - 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		2/14/2019	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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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 1
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-13S							
CHLORIDE EPA 300.0		3.0	2.5	mg/L (PPM)	LV	2/15/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 2
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-5							
CHLORIDE EPA 300.0		2.7	2.5	mg/L (PPM)	LV	2/15/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 3
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-12D						
	CHLORIDE EPA 300.0	3.3	2.5	mg/L (PPM)	LV	2/15/2019	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: 021319-2

PROJECT NO: 2018100140.01

GTA SAMPLE NO: 4

LOCATION: WHITEWATER 32 CPF

DATE SAMPLED: 2/11/2019

TIME SAMPLED:

DATE RECEIVED: 2/13/2019

TIME RECEIVED: 2:30 PM

MI

SAMPLED BY: JG/MS - GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-10S

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date

Sample

15

2.5

mg/L (PPM)

LV

2/15/2019

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 5
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-11S						
	CHLORIDE EPA 300.0	6.7	2.5	mg/L (PPM)	LV	2/15/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 6
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-11D		14	2.5	mg/L (PPM)	LV	2/15/2019	WATER
CHLORIDE EPA 300.0							

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 7
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-13D CHLORIDE EPA 300.0	17	2.5	mg/L (PPM)	LV	2/15/2019	WATER

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LOCATION: WHITEWATER 32 CPF
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SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 8
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-22D							
CHLORIDE EPA 300.0		28	2.5	mg/L (PPM)	LV	2/15/2019	WATER

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
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SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 9
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-33D							
CHLORIDE EPA 300.0		12	2.5	mg/L (PPM)	LV	2/15/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 10
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-26D						
	CHLORIDE EPA 300.0	53	2.5	mg/L (PPM)	LV	2/15/2019	WATER

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LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 11
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-34D CHLORIDE EPA 300.0	38	2.5	mg/L (PPM)	LV	2/15/2019	WATER

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LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021319-2

PROJECT NO: 2018100140.01

GTA SAMPLE NO: 12

LOCATION: WHITEWATER 32 CPF

DATE SAMPLED: 2/12/2019

TIME SAMPLED:

DATE RECEIVED: 2/13/2019

TIME RECEIVED: 2:30 PM

MI

SAMPLED BY: JG/MS - GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-34DD

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date

Sample

490

50

mg/L (PPM)

LV

2/15/2019

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 13
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-43DD CHLORIDE EPA 300.0	270	2.5	mg/L (PPM)	LV	2/15/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 14
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-48DD						
	CHLORIDE EPA 300.0	250	5.0	mg/L (PPM)	LV	2/15/2019	WATER

ND = NOT DETECTED, RESULT < LOD
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s.u. = STANDARD pH UNITS REPORTED AT 25 C



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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 15
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-37DD							
CHLORIDE EPA 300.0		240	2.5	mg/L (PPM)	LV	2/15/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 16
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-18D		98	2.5	mg/L (PPM)	LV	2/15/2019	WATER
CHLORIDE EPA 300.0							

ND = NOT DETECTED, RESULT < LOD
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s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 17
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-9M CHLORIDE EPA 300.0	5.9	2.5	mg/L (PPM)	LV	2/15/2019	WATER

ND = NOT DETECTED, RESULT < LOD
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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 18
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-9							
CHLORIDE EPA 300.0		ND	2.5	mg/L (PPM)	LV	2/15/2019	WATER

ND = NOT DETECTED, RESULT < LOD
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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 19
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-16S							
CHLORIDE EPA 300.0		ND	2.5	mg/L (PPM)	LV	2/15/2019	WATER

ND = NOT DETECTED, RESULT < LOD
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s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 20
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-14DD CHLORIDE EPA 300.0	ND	2.5	mg/L (PPM)	KC	2/20/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 21
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-19DD						
	CHLORIDE EPA 300.0	450	2.5	mg/L (PPM)	KC	2/20/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 22
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-19D						
	CHLORIDE EPA 300.0	4.2	2.5	mg/L (PPM)	KC	2/20/2019	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: 021319-2

PROJECT NO: 2018100140.01

GTA SAMPLE NO: 23

LOCATION: WHITEWATER 32 CPF

DATE SAMPLED: 2/13/2019

TIME SAMPLED:

DATE RECEIVED: 2/13/2019

TIME RECEIVED: 2:30 PM

MI

SAMPLED BY: JG/MS - GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-14D

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date

Sample

5.6

2.5

mg/L (PPM)

KC

2/20/2019

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 24
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-2							
CHLORIDE EPA 300.0		3.2	2.5	mg/L (PPM)	KC	2/20/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 25
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-31D						
	CHLORIDE EPA 300.0	30	2.5	mg/L (PPM)	LV	2/21/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 26
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-8							
CHLORIDE EPA 300.0		ND	2.5	mg/L (PPM)	LV	2/21/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 27
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-17S						
	CHLORIDE EPA 300.0	6.3	2.5	mg/L (PPM)	LV	2/21/2019	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: 021319-2

PROJECT NO: 2018100140.01

GTA SAMPLE NO: 28

LOCATION: WHITEWATER 32 CPF

DATE SAMPLED: 2/11/2019

TIME SAMPLED:

DATE RECEIVED: 2/13/2019

TIME RECEIVED: 2:30 PM

MI

SAMPLED BY: JG/MS - GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-29DD

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date

Sample

480

10

mg/L (PPM)

LV

2/21/2019

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 29
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-35DD							
CHLORIDE EPA 300.0		520	10	mg/L (PPM)	LV	2/21/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 30
DATE SAMPLED: 2/11/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-44DD CHLORIDE EPA 300.0	550	50	mg/L (PPM)	LV	2/21/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 31
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-50D							
CHLORIDE EPA 300.0		12	2.5	mg/L (PPM)	LV	2/21/2019	WATER

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GTA PROJECT NO: 021319-2

PROJECT NO: 2018100140.01

GTA SAMPLE NO: 32

LOCATION: WHITEWATER 32 CPF

DATE SAMPLED: 2/12/2019

TIME SAMPLED:

DATE RECEIVED: 2/13/2019

TIME RECEIVED: 2:30 PM

MI

SAMPLED BY: JG/MS - GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-47DD

CHLORIDE EPA 300.0

Concentration

47

LOD

2.5

Units

mg/L (PPM)

Analyst

LV

Date

2/21/2019

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
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 33
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-36DD CHLORIDE EPA 300.0	46	2.5	mg/L (PPM)	LV	2/21/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 34
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-30DDD CHLORIDE EPA 300.0	350	10	mg/L (PPM)	LV	2/21/2019	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: 021319-2

PROJECT NO: 2018100140.01

GTA SAMPLE NO: 35

LOCATION: WHITEWATER 32 CPF

DATE SAMPLED: 2/12/2019

TIME SAMPLED:

DATE RECEIVED: 2/13/2019

TIME RECEIVED: 2:30 PM

MI

SAMPLED BY: JG/MS - GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-42DD

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date

Sample

1,000

50

mg/L (PPM)

LV

2/21/2019

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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



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PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 36
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-45DD							
CHLORIDE EPA 300.0		930	50	mg/L (PPM)	LV	2/21/2019	WATER

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LOD = LIMIT OF DETECTION
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 37
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-51D							
CHLORIDE EPA 300.0		ND	2.5	mg/L (PPM)	LV	2/21/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 38
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-1D							
CHLORIDE EPA 300.0		7.5	2.5	mg/L (PPM)	LV	2/21/2019	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: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 39
DATE SAMPLED: 2/12/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-49D							
CHLORIDE EPA 300.0		7.7	2.5	mg/L (PPM)	LV	2/22/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 40
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-32D						
	CHLORIDE EPA 300.0	36	2.5	mg/L (PPM)	LV	2/22/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100140.01
LOCATION: WHITEWATER 32 CPF
MI
SAMPLED BY: JG/MS - GCES

GTA PROJECT NO: 021319-2
GTA SAMPLE NO: 41
DATE SAMPLED: 2/13/2019
TIME SAMPLED:
DATE RECEIVED: 2/13/2019
TIME RECEIVED: 2:30 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: MW-21D CHLORIDE EPA 300.0	ND	2.5	mg/L (PPM)	LV	2/22/2019	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

10/3

CHAIN OF CUSTODY

PROJECT NUMBER 2018100140.01	SITE NAME/ADDRESS Whitewater 32 CPF	COMPANY/NAME Lambda Energy Resources
SAMPLED BY Joshua Genie	COMPANY Gosling Curbak	GTA PROJECT # 021319-2

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-13s	2-11-19		GW	BTEX + Chloride
2	MW-5	↓			
3	MW-12D				
4	MW-10s				
5	MW-11s				
6	MW-11D				
7	MW-13D				
8	MW-22D	2-12-19			BTEX+4 + Chloride
9	MW-33D				BTEX + Chloride
10	MW-26D	↓			
11	MW-34D				
12	MW-34DD				Chloride
13	MW-43DD	↓			
14	MW-48DD				
15	MW-37DD				

BILL TO:

GCES

REPORT TO:

Jeff Simsa

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

2-13-19/1430

2/13/19 1430
rec 7.3°C

REQUESTED TAT ☒ **STANDARD** ☐ **1 BUSINESS DAY** ☐ **2 BUSINESS DAYS** ☐ **3 BUSINESS DAYS**

20/3

CHAIN OF CUSTODY

PROJECT NUMBER 2018100140.01	SITE NAME/ADDRESS Whitewater 32 CPF	COMPANY/NAME Lambda Energy Resources
SAMPLED BY Joshua Gervie	COMPANY Gosling Czubak	GTA PROJECT # 021319-2

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
16	MW-18D	2-12-19		GW	Chloride
17	MW-9M	2-13-19			BTEX + Chloride
18	MW-9				
19	MW-16S				
20	MW-14DD				
21	MW-19DD				Chloride
22	MW-19D				BTEX + 4 + Chloride
23	MW-14D				
24	MW-2				BTEX, CHLORIDE
25	MW-31d				
26	MW-8				

BILL TO:

REPORT TO:

GCES

Jeff Simsa

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

[Signature] 2-13-19/1430

[Signature] 2/13/19 1430
REC 7.30C

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

3 of 3

CHAIN OF CUSTODY

PROJECT NUMBER 2018100140.01	SITE NAME/ADDRESS WHITEWATER 32 CPF	COMPANY/NAME LAMBDA ENERGY
SAMPLED BY MARK STOVER	COMPANY G.C.E.S.	GTA PROJECT # 021319-2

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
27	MW-175	2-11-19		GW	BTEX, CHLORIDE
28	MW-29dd	↓		↓	CHLORIDE
29	MW-35dd	↓		↓	
30	MW-44dd	↓		↓	
31	MW-50d	2-12-19			BTEX
32	MW-47dd	↓		↓	
33	MW-36dd	↓		↓	
34	MW-30ddd	↓		↓	
35	MW-42dd	↓		↓	
36	MW-45dd	↓		↓	
37	MW-51d	↓		↓	BTEX, CHLORIDE
38	MW-1d	↓		↓	↓ ↓
39	MW-49d	↓		↓	BTEX + 4, CHLORIDE
40	MW-32d	2-13-19		↓	↓ ↓
41	MW-21d	↓		↓	BTEX, CHLORIDE

BILL TO: G.C.E.S.

REPORT TO:
JEFF SIMSA

RELEASED BY 	DATE/TIME 2-13-19/1430	RECEIVED BY 	DATE/TIME 2/13/19 1430
		50C 7.3°C	

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