

**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: 2018100153.01

GTA ProjNo: 030819-9

Site Addr: NORWICH UNIT TRACT 4-156

Sampled By: MARK STOVER/GCES

Date Rec: 3/8/2019

Time Rec: 2:00 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-11D	3/7/2019		WATER
2	MW-9D	3/7/2019		WATER
3	MW-4D	3/7/2019		WATER
4	MW-5	3/7/2019		WATER
5	MW-15	3/7/2019		WATER
6	MW-1	3/7/2019		WATER
7	MW-10	3/7/2019		WATER
8	MW-3	3/7/2019		WATER
9	MW-11S	3/7/2019		WATER
10	MW-13	3/7/2019		WATER
11	MW-14 (40')	3/8/2019		WATER
12	MW-14 (8')	3/8/2019		WATER
13	MW-7 (8')	3/8/2019		WATER
14	MW-6	3/8/2019		WATER
15	MW-7 (40')	3/8/2019		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
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: 2018100153.01
LOCATION: NORWICH UNIT TRACT 4-156
MI
SAMPLED BY: MARK STOVER/GCES

GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 1
DATE SAMPLED: 3/7/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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 CHLORIDE EPA 300.0	ND	2.5	mg/L (PPM)	LV	3/12/2019	WATER

ND = NOT DETECTED, RESULT < LOD
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PROJECT NO: 2018100153.01
LOCATION: NORWICH UNIT TRACT 4-156
MI
SAMPLED BY: MARK STOVER/GCES

GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 2
DATE SAMPLED: 3/7/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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-9D CHLORIDE EPA 300.0	ND	2.5	mg/L (PPM)	LV	3/12/2019	WATER

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PROJECT NO: 2018100153.01
LOCATION: NORWICH UNIT TRACT 4-156
MI
SAMPLED BY: MARK STOVER/GCES

GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 3
DATE SAMPLED: 3/7/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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-4D						
	CHLORIDE EPA 300.0	6.2	2.5	mg/L (PPM)	LV	3/12/2019	WATER

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PROJECT NO: 2018100153.01
LOCATION: NORWICH UNIT TRACT 4-156
MI
SAMPLED BY: MARK STOVER/GCES

GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 4
DATE SAMPLED: 3/7/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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		8.4	2.5	mg/L (PPM)	LV	3/12/2019	WATER

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PROJECT NO: 2018100153.01
LOCATION: NORWICH UNIT TRACT 4-156
MI
SAMPLED BY: MARK STOVER/GCES

GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 5
DATE SAMPLED: 3/7/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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-15							
CHLORIDE EPA 300.0		12	2.5	mg/L (PPM)	LV	3/12/2019	WATER

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LOCATION: NORWICH UNIT TRACT 4-156
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GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 6
DATE SAMPLED: 3/7/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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-1							
CHLORIDE EPA 300.0		7.1	2.5	mg/L (PPM)	LV	3/12/2019	WATER

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LOCATION: NORWICH UNIT TRACT 4-156
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GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 7
DATE SAMPLED: 3/7/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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-10 CHLORIDE EPA 300.0	260	2.5	mg/L (PPM)	LV	3/12/2019	WATER

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LOCATION: NORWICH UNIT TRACT 4-156
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GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 8
DATE SAMPLED: 3/7/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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-3							
CHLORIDE EPA 300.0		190	2.5	mg/L (PPM)	LV	3/12/2019	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100153.01
LOCATION: NORWICH UNIT TRACT 4-156
MI
SAMPLED BY: MARK STOVER/GCES

GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 9
DATE SAMPLED: 3/7/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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	460	10	mg/L (PPM)	LV	3/12/2019	WATER

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LOCATION: NORWICH UNIT TRACT 4-156
MI
SAMPLED BY: MARK STOVER/GCES

GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 10
DATE SAMPLED: 3/7/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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-13							
CHLORIDE EPA 300.0		630	50	mg/L (PPM)	LV	3/12/2019	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100153.01
LOCATION: NORWICH UNIT TRACT 4-156
MI
SAMPLED BY: MARK STOVER/GCES

GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 11
DATE SAMPLED: 3/8/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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-14 (40')						
	CHLORIDE EPA 300.0	300	5.0	mg/L (PPM)	LV	3/12/2019	WATER

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PROJECT NO: 2018100153.01
LOCATION: NORWICH UNIT TRACT 4-156
MI
SAMPLED BY: MARK STOVER/GCES

GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 12
DATE SAMPLED: 3/8/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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-14 (8')						
	CHLORIDE EPA 300.0	140	2.5	mg/L (PPM)	LV	3/12/2019	WATER

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PROJECT NO: 2018100153.01
LOCATION: NORWICH UNIT TRACT 4-156
MI
SAMPLED BY: MARK STOVER/GCES

GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 13
DATE SAMPLED: 3/8/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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-7 (8')						
	CHLORIDE EPA 300.0	180	2.5	mg/L (PPM)	LV	3/12/2019	WATER

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LOCATION: NORWICH UNIT TRACT 4-156
MI
SAMPLED BY: MARK STOVER/GCES

GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 14
DATE SAMPLED: 3/8/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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-6							
CHLORIDE EPA 300.0		170	2.5	mg/L (PPM)	LV	3/12/2019	WATER

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LOCATION: NORWICH UNIT TRACT 4-156
MI
SAMPLED BY: MARK STOVER/GCES

GTA PROJECT NO: 030819-9
GTA SAMPLE NO: 15
DATE SAMPLED: 3/8/2019
TIME SAMPLED:
DATE RECEIVED: 3/8/2019
TIME RECEIVED: 2:00 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-7 (40')						
	CHLORIDE EPA 300.0	1,500	100	mg/L (PPM)	LV	3/12/2019	WATER

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CHAIN OF CUSTODY

PROJECT NUMBER	SITE NAME/ADDRESS	COMPANY/NAME
2018/00153.01	NORWICH UNIT TRACT 4-156	LAMBDA ENERGY
SAMPLED BY	COMPANY	GTA PROJECT #
MARK STOVER	G.C.E.S.	030819-9

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-11d	3-7-19		GW	CHLORIDE
2	MW-9d				
3	MW-4d				
4	MW-5				
5	MW-15				
6	MW-1				
7	MW-10				
8	MW-3				
9	MW-11S				
10	MW-13				
11	MW-14(40')	3-8-19			
12	MW-14(8')				
13	MW-7(8')				
14	MW-6				
15	MW-7(40')				

BILL TO:

G.C.E.S.

REPORT TO:

JEFF SIMSA

RELEASED BY

DATE/TIME

3-8-19

RECEIVED BY

DATE/TIME

3/8/19 2p

REQUESTED TAT

☒ STANDARD

☐ 1 BUSINESS DAY

☐ 2 BUSINESS DAYS

☐ 3 BUSINESS DAYS