



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: 2018100132.01
GTA ProjNo: 102518-2

Site Addr: KALKASKA 5
Sampled By: RAY FARVE/GCES
Date Rec: 10/25/2018
Time Rec: 12:40 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	RW-8	10/24/2018	10:55 AM	WATER
2	RW-9	10/24/2018	11:00 AM	WATER
3	RW-13	10/24/2018	9:57 AM	WATER
4	RW-14	10/24/2018	10:04 AM	WATER
5	RW-15	10/24/2018	10:10 AM	WATER
6	RW-16	10/24/2018	10:16 AM	WATER
7	RW-17	10/24/2018	10:21 AM	WATER
8	RW-20	10/24/2018	10:27 AM	WATER
9	RW-21	10/24/2018	10:34 AM	WATER
10	RW-22	10/24/2018	10:40 AM	WATER
11	RW-23	10/24/2018	10:45 AM	WATER
12	RW-25	10/24/2018	10:50 AM	WATER
13	RW-6	10/24/2018	11:15 AM	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: 2018100132.01
LOCATION: KALKASKA 5
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-6

GTA PROJECT NO: 102518-2
GTA SAMPLE NO: 13
DATE SAMPLED: 10/24/2018
TIME SAMPLED: 11:15 AM
DATE RECEIVED: 10/25/2018
TIME RECEIVED: 12:40 PM
SAMPLED BY: RAY FARVE/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		10/26/2018	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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100132.01
 LOCATION: KALKASKA 5

GTA PROJECT NO: 102518-2
 GTA SAMPLE NO: 1
 DATE SAMPLED: 10/24/2018
 TIME SAMPLED: 10:55 AM
 DATE RECEIVED: 10/25/2018
 TIME RECEIVED: 12:40 PM

SAMPLED BY: MI
 RAY FARVE/GCES

INORGANICS

<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-8 CHLORIDE EPA 300.0	169	2.5	mg/L (PPM)	LV	10/31/2018	WATER

ND = NOT DETECTED, RESULT < LOD
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100132.01
LOCATION: KALKASKA 5

GTA PROJECT NO: 102518-2
GTA SAMPLE NO: 2

DATE SAMPLED: 10/24/2018
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 10/25/2018
TIME RECEIVED: 12:40 PM

SAMPLED BY: MI
RAY FARVE/GCES

INORGANICS

<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-9 CHLORIDE EPA 300.0	249	2.5	mg/L (PPM)	LV	10/31/2018	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: 2018100132.01
 LOCATION: KALKASKA 5

GTA PROJECT NO: 102518-2
 GTA SAMPLE NO: 3
 DATE SAMPLED: 10/24/2018
 TIME SAMPLED: 9:57 AM
 DATE RECEIVED: 10/25/2018
 TIME RECEIVED: 12:40 PM

SAMPLED BY: MI
 RAY FARVE/GCES

INORGANICS

<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-13 CHLORIDE EPA 300.0	87.0	2.5	mg/L (PPM)	LV	10/31/2018	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100132.01
 LOCATION: KALKASKA 5

GTA PROJECT NO: 102518-2
 GTA SAMPLE NO: 4
 DATE SAMPLED: 10/24/2018
 TIME SAMPLED: 10:04 AM
 DATE RECEIVED: 10/25/2018
 TIME RECEIVED: 12:40 PM

SAMPLED BY: MI
 RAY FARVE/GCES

INORGANICS

<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-14 CHLORIDE EPA 300.0	78.4	2.5	mg/L (PPM)	LV	10/31/2018	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100132.01
 LOCATION: KALKASKA 5

GTA PROJECT NO: 102518-2
 GTA SAMPLE NO: 5
 DATE SAMPLED: 10/24/2018
 TIME SAMPLED: 10:10 AM
 DATE RECEIVED: 10/25/2018
 TIME RECEIVED: 12:40 PM

SAMPLED BY: MI
 RAY FARVE/GCES

INORGANICS

<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-15 CHLORIDE EPA 300.0	807	5.0	mg/L (PPM)	LV	10/31/2018	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100132.01
 LOCATION: KALKASKA 5

GTA PROJECT NO: 102518-2
 GTA SAMPLE NO: 6
 DATE SAMPLED: 10/24/2018
 TIME SAMPLED: 10:16 AM
 DATE RECEIVED: 10/25/2018
 TIME RECEIVED: 12:40 PM

MI
 SAMPLED BY: RAY FARVE/GCES

INORGANICS

<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-16 CHLORIDE EPA 300.0	144	2.5	mg/L (PPM)	LV	10/31/2018	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100132.01
 LOCATION: KALKASKA 5

GTA PROJECT NO: 102518-2
 GTA SAMPLE NO: 7
 DATE SAMPLED: 10/24/2018
 TIME SAMPLED: 10:21 AM
 DATE RECEIVED: 10/25/2018
 TIME RECEIVED: 12:40 PM

SAMPLED BY: MI
 RAY FARVE/GCES

INORGANICS

<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-17 CHLORIDE EPA 300.0	54.1	2.5	mg/L (PPM)	LV	10/31/2018	WATER

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100132.01
 LOCATION: KALKASKA 5

GTA PROJECT NO: 102518-2
 GTA SAMPLE NO: 8
 DATE SAMPLED: 10/24/2018
 TIME SAMPLED: 10:27 AM
 DATE RECEIVED: 10/25/2018
 TIME RECEIVED: 12:40 PM

MI
 SAMPLED BY: RAY FARVE/GCES

INORGANICS

<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-20 CHLORIDE EPA 300.0	69.5	2.5	mg/L (PPM)	LV	10/31/2018	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: 2018100132.01
 LOCATION: KALKASKA 5

GTA PROJECT NO: 102518-2
 GTA SAMPLE NO: 9
 DATE SAMPLED: 10/24/2018
 TIME SAMPLED: 10:34 AM
 DATE RECEIVED: 10/25/2018
 TIME RECEIVED: 12:40 PM

MI
 SAMPLED BY: RAY FARVE/GCES

INORGANICS

<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-21	CHLORIDE EPA 300.0	108	2.5	mg/L (PPM)	LV	10/31/2018	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: 2018100132.01
 LOCATION: KALKASKA 5

GTA PROJECT NO: 102518-2
 GTA SAMPLE NO: 10
 DATE SAMPLED: 10/24/2018
 TIME SAMPLED: 10:40 AM
 DATE RECEIVED: 10/25/2018
 TIME RECEIVED: 12:40 PM

MI
 SAMPLED BY: RAY FARVE/GCES

INORGANICS

<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-22 CHLORIDE EPA 300.0	44.6	2.5	mg/L (PPM)	LV	11/1/2018	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: 2018100132.01
 LOCATION: KALKASKA 5

GTA PROJECT NO: 102518-2
 GTA SAMPLE NO: 11
 DATE SAMPLED: 10/24/2018
 TIME SAMPLED: 10:45 AM
 DATE RECEIVED: 10/25/2018
 TIME RECEIVED: 12:40 PM

MI
 SAMPLED BY: RAY FARVE/GCES

INORGANICS

<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-23 CHLORIDE EPA 300.0	68.3	2.5	mg/L (PPM)	LV	11/1/2018	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: 2018100132.01
 LOCATION: KALKASKA 5

GTA PROJECT NO: 102518-2
 GTA SAMPLE NO: 12
 DATE SAMPLED: 10/24/2018
 TIME SAMPLED: 10:50 AM
 DATE RECEIVED: 10/25/2018
 TIME RECEIVED: 12:40 PM

MI
 SAMPLED BY: RAY FARVE/GCES

INORGANICS

<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-25 CHLORIDE EPA 300.0	249	2.5	mg/L (PPM)	LV	11/1/2018	WATER

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

CHAIN OF CUSTODY

PROJECT NUMBER	SITE NAME/ADDRESS <i>Kulhaska 5</i>	COMPANY/NAME <i>Lampson</i>
SAMPLED BY <i>Ray Finner</i>	COMPANY <i>GCE5</i>	GTA PROJECT # <i>102518-2</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	RW-8	10-24-18	10:55	GW	chloride
2	RW-9		11:00		
3	RW-13		9:57		
4	RW-14		10:04		
5	RW-15		10:10		
6	RW-16		10:16		
7	RW-17		10:21		
8	RW-20		10:27		
9	RW-21		10:34		
10	RW-22		10:40		
11	RW-23		10:45		
12	RW-25		10:50		
13	RW-6		11:15		chloride, BTEX

BILL TO:

REPORT TO:

see SOC on file

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
<i>Ray Finner</i>	<i>10-24-18 / 5:00 pm</i>	<i>G.L. Cold Storage</i>	<i>10-24-18 / 5:00 pm</i>
<i>Ray Finner</i>	<i>10-25-18 / 12:40p</i>	<i>R. [Signature]</i>	<i>10/25/18 12:40p</i>

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