



**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

[www.gtanalytical.com](http://www.gtanalytical.com)

Company: LAMBDA ENERGY RESOURCES, LLC  
Name:  
ClientProj: 20.064  
GTA ProjNo: 030221-3

Site Addr: CASE 33 CPF  
Sampled By: KWB/HURON  
Date Rec: 3/2/2021  
Time Rec: 2:00 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	CASE 33 SEPARATOR	2/25/2021	4:50 PM	BRINE

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](mailto:kirk@gtanalytical.com)



**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	GTA PROJECT NO:	030221-3
PROJECT NO:	20.064	GTA SAMPLE NO:	1
LOCATION:	CASE 33 CPF	DATE SAMPLED:	2/25/2021
		TIME SAMPLED:	4:50 PM
		DATE RECEIVED:	3/2/2021
	MI	TIME RECEIVED:	2:00 PM
SAMPLED BY:	KWB/HURON	SAMPLE MATRIX:	BRINE
SAMPLE ID:	CASE 33 SEPARATOR		

**METALS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	0.037	0.010	mg/L (PPM)	MR	3/17/2021	EPA 3005A
CALCIUM DISS EPA 6020A	49,000	100	mg/L (PPM)	MR	3/17/2021	EPA 3005A
IRON TOTAL EPA 6020A	0.84	0.10	mg/L (PPM)	MR	3/17/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	12,000	100	mg/L (PPM)	MR	3/17/2021	EPA 3005A
POTASSIUM DISS EPA 6020A	5,700	100	mg/L (PPM)	MR	3/17/2021	EPA 3005A
SODIUM DISS EPA 6020A	43,000	100	mg/L (PPM)	MR	3/17/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED



**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	GTA PROJECT NO:	030221-3
PROJECT NO:	20.064	GTA SAMPLE NO:	1
LOCATION:	CASE 33 CPF	DATE RECEIVED:	3/2/2021
		TIME RECEIVED:	2:00 PM
	MI	DATE SAMPLED:	2/25/2021
SAMPLED BY:	KWB/HURON	TIME SAMPLED:	4:50 PM
SAMPLE ID:	CASE 33 SEPARATOR	SAMPLE MATRIX:	BRINE

**SAMPLE RESULTS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	78	10	mg/L (PPM)	TR	3/4/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	3/4/2021
CHLORIDE EPA 300.0	290,000	2,000	mg/L (PPM)	LV	3/8/2021
CONDUCTIVITY SM2510-B	470,000	5.0	uS/cm@25C	LV	3/8/2021
pH EPA 150.1 - LAB	5.1	0.10	s.u.	TR	3/4/2021
RESISTIVITY SM 2510A	2.1	-	ohms x cm	LV	3/8/2021
SPECIFIC GRAVITY SM 2710F	1.241	-	-	TR	3/4/2021
SULFATE EPA 300.0	140	50	mg/L (PPM)	LV	3/8/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	3/3/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	370,000	5.0	mg/L (PPM)	TR	3/5/2021

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

