

**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:

Site Addr: EPA-UIC ANNUAL SAMPLES

GTA ProjNo: 111621-2

Sampled By: LER

Date Rec: 11/16/2021

Time Rec: 11:48 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	ST. ALBERT 2-25 SWD	11/3/2021	2:12 PM	BRINE
2	ST. CHESTER 1-19 SWD	11/3/2021	1:20 PM	BRINE
3	LARRISON C4-21 SWD	11/4/2021	10:40 AM	BRINE
4	LAKE HORICON CORP & SAVAGE 2-12 SWD	11/12/2021		BRINE
5	NMLO 1-22 SWD	11/12/2021		BRINE
6	ST. FREDERIC 1-10 SWD	11/12/2021		BRINE
7	ST. BLUE LAKE 1-17 SWD	11/11/2021	2:00 PM	BRINE
8	NICKERSON 5-1 SWD	11/12/2021	10:00 AM	BRINE
9	ST. BEAR LAKE 1-32 SWD	11/11/2021	1:50 PM	BRINE
10	HILLIARD 2-26 WIW	11/11/2021	1:25 PM	BRINE
11	SEDLAR JOHNSON 3-26 WIW	11/11/2021	1:35 PM	BRINE
12	ST. MANISTEE 1-15 SWD	11/11/2021	2:15 PM	BRINE
13	ST. MANISTEE 1-23 SWD	11/11/2021	1:30 PM	BRINE
14	ST. BEAR LAKE 1-22 SWD	11/11/2021	1:35 PM	BRINE
15	ST. BEAR LAKE 1-13	11/11/2021	2:10 PM	BRINE
16	ST. MAPLE GROVE 1-6 SWD	11/11/2021	2:20 PM	BRINE
17	FALK 1-4 SWD	11/11/2021	3:00 PM	BRINE
18	RAPID RIVER 1-24 SWD	11/12/2021	10:55 AM	BRINE
19	ST. MAPLE GROVE 1-16 SWD	11/11/2021	1:00 PM	BRINE
20	BOWMAN ST MAYFIELD 6-19 SWD	11/11/2021	12:04 PM	BRINE
21	ST. SPRINGDALE 1-28 SWD	11/11/2021	2:00 PM	BRINE
22	ST. WHITEWATER 1-32 SWD	11/11/2021	11:00 AM	BRINE
23	WALTON 6-16 SWD	11/11/2021	12:24 PM	BRINE
24	PARCELLS 2-9 SWD	11/11/2021	12:45 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 L. Chase/Chemist
Grand Traverse Analytical
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/3/2021
TIME SAMPLED: 2:12 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: ST. ALBERT 2-25 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	2,400	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	880	10	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	21,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

MI

SAMPLED BY: LER

SAMPLE ID: ST. ALBERT 2-25 SWD

GTA PROJECT NO: 111621-2

GTA SAMPLE NO: 1

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

DATE SAMPLED: 11/3/2021

TIME SAMPLED: 2:12 PM

SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	33	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	160,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.3	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.129	-	-	TR	12/10/2021
SULFATE EPA 300.0	ND	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	220,000	5.0	mg/L (PPM)	TR	12/8/2021

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/3/2021
TIME SAMPLED: 1:20 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: ST. CHESTER 1-19 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	20,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,500	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	8,100	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO:
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: ST. CHESTER 1-19 SWD

GTA PROJECT NO: 111621-2
GTA SAMPLE NO: 2
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
DATE SAMPLED: 11/3/2021
TIME SAMPLED: 1:20 PM
SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	200	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	190,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.9	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.168	-	-	TR	12/10/2021
SULFATE EPA 300.0	340	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	250,000	5.0	mg/L (PPM)	TR	12/8/2021

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/4/2021
TIME SAMPLED: 10:40 AM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: LARRISON C4-21 SWD

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	90	1.0	mg/L (PPM)	MR	12/1/2021	EPA 3005A
CALCIUM DISS EPA 6020A	3,500	10	mg/L (PPM)	MR	12/1/2021	EPA 3005A
IRON TOTAL EPA 6020A	19	10	mg/L (PPM)	MR	12/1/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	1,300	10	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	20,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO:
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: LARRISON C4-21 SWD

GTA PROJECT NO: 111621-2
GTA SAMPLE NO: 3
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
DATE SAMPLED: 11/4/2021
TIME SAMPLED: 10:40 AM
SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	67	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	190,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.6	0.10	s.u.	TR	12/10/2021
RESISTIVITY SM 2510A	2.6	-	ohms x cm	TR	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.163	-	-	TR	12/10/2021
SULFATE EPA 300.0	ND	50	mg/L (PPM)	TR	12/1/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	260,000	5.0	mg/L (PPM)	TR	12/8/2021

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: EPA-UIC ANNUAL SAMPLES
LOCATION: MI
SAMPLED BY: LER
GTA PROJECT NO: 111621-2
GTA SAMPLE NO: 4
DATE SAMPLED: 11/12/2021
TIME SAMPLED:
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLE MATRIX: BRINE
SAMPLE ID: LAKE HORICON CORP & SAVAGE 2-12 SWD

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	1.6	1.0	mg/L (PPM)	MR	12/1/2021	EPA 3005A
CALCIUM DISS EPA 6020A	22,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
IRON TOTAL EPA 6020A	42	10	mg/L (PPM)	MR	12/1/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	2,400	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	5,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

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GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 4

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/12/2021

TIME SAMPLED:

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: LAKE HORICON CORP &
SAVAGE 2-12 SWD**SAMPLE ANALYSIS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	33	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	160,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.1	0.10	s.u.	TR	12/10/2021
RESISTIVITY SM 2510A	3.0	-	ohms x cm	TR	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.153	-	-	TR	12/10/2021
SULFATE EPA 300.0	140	50	mg/L (PPM)	TR	12/1/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	270,000	5.0	mg/L (PPM)	TR	12/8/2021

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/12/2021
TIME SAMPLED:
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: NMLO 1-22 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	19,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,400	10	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	12,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

MI

SAMPLED BY: LER

SAMPLE ID: NMLO 1-22 SWD

GTA PROJECT NO: 111621-2

GTA SAMPLE NO: 5

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

DATE SAMPLED: 11/12/2021

TIME SAMPLED:

SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	120	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	140,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	6.1	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.121	-	-	TR	12/10/2021
SULFATE EPA 300.0	580	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	180,000	5.0	mg/L (PPM)	TR	12/8/2021

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/12/2021
TIME SAMPLED:
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: ST. FREDERIC 1-10 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	8,900	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,200	10	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	11,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 6

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/12/2021

TIME SAMPLED:

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. FREDERIC 1-10 SWD

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	230	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	130,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	6.0	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.117	-	-	TR	12/10/2021
SULFATE EPA 300.0	370	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	190,000	5.0	mg/L (PPM)	TR	12/8/2021

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11COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-2

GTA SAMPLE NO: 7

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 2:00 PM

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

SAMPLED BY: MI
LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. BLUE LAKE 1-17 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	24,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,700	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	4,900	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 7

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 2:00 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. BLUE LAKE 1-17 SWD

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	330	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	260,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.5	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.231	-	-	TR	12/10/2021
SULFATE EPA 300.0	82	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	330,000	5.0	mg/L (PPM)	TR	12/8/2021

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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
PROJECT NO: GTA PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/12/2021
TIME SAMPLED: 10:00 AM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: NICKERSON 5-1 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	16,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,100	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	6,800	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

MI

SAMPLED BY: LER

SAMPLE ID: NICKERSON 5-1 SWD

GTA PROJECT NO: 111621-2

GTA SAMPLE NO: 8

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

DATE SAMPLED: 11/12/2021

TIME SAMPLED: 10:00 AM

SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	240	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	220,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	6.2	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.209	-	-	TR	12/10/2021
SULFATE EPA 300.0	90	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	300,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 9

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 1:50 PM

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

SAMPLED BY: MI
LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. BEAR LAKE 1-32 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	24,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	290	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	1,200	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 9

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 1:50 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. BEAR LAKE 1-32 SWD

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	190	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	170,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	6.2	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.156	-	-	TR	12/10/2021
SULFATE EPA 300.0	240	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	220,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 111621-2
PROJECT NO: GTA SAMPLE NO: 10
LOCATION: EPA-UIC ANNUAL SAMPLES DATE SAMPLED: 11/11/2021
TIME SAMPLED: 1:25 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI SAMPLE MATRIX: BRINE
LER
SAMPLE ID: HILLIARD 2-26 WIW

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	ND	1.0	mg/L (PPM)	MR	12/1/2021	EPA 3005A
CALCIUM DISS EPA 6020A	ND	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
IRON TOTAL EPA 6020A	ND	10	mg/L (PPM)	MR	12/1/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	ND	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	ND	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 10

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 1:25 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: HILLIARD 2-26 WIW

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	140	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	27	10	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	8.8	0.10	s.u.	TR	12/10/2021
RESISTIVITY SM 2510A	3,700	-	ohms x cm	TR	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.000	-	-	TR	12/10/2021
SULFATE EPA 300.0	ND	10	mg/L (PPM)	TR	12/1/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	1,900	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 1:35 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: SEDLAR JOHNSON 3-26 WIW

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	ND	1.0	mg/L (PPM)	MR	12/1/2021	EPA 3005A
CALCIUM DISS EPA 6020A	ND	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
IRON TOTAL EPA 6020A	ND	10	mg/L (PPM)	MR	12/1/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	ND	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	ND	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 11

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 1:35 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: SEDLAR JOHNSON 3-26 WIW

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	120	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	26	10	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	8.2	0.10	s.u.	TR	12/10/2021
RESISTIVITY SM 2510A	4,200	-	ohms x cm	TR	11/22/2021
SPECIFIC GRAVITY SM 2710F	0.9940	-	-	TR	12/10/2021
SULFATE EPA 300.0	ND	10	mg/L (PPM)	TR	12/1/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	1,900	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 2:15 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: ST. MANISTEE 1-15 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	24,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,700	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	7,100	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 12

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 2:15 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. MANISTEE 1-15 SWD

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	200	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	280,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.2	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.219	-	-	TR	12/10/2021
SULFATE EPA 300.0	120	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	320,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 1:30 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: ST. MANISTEE 1-23 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	27,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	3,700	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	10,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 13

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 1:30 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. MANISTEE 1-23 SWD

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	200	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	220,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.7	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.172	-	-	TR	12/10/2021
SULFATE EPA 300.0	220	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	300,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED



INDEPENDENT TESTING LAB

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 1:35 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: ST. BEAR LAKE 1-22 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	21,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,700	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	11,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 14

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 1:35 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. BEAR LAKE 1-22 SWD

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	180	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	170,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	6.2	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.142	-	-	TR	12/10/2021
SULFATE EPA 300.0	230	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	250,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 2:10 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: ST. BEAR LAKE 1-13

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	7,800	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,100	10	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	5,800	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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PH: 231-929-0905

FAX: 231-929-0894

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XCOMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 15

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 2:10 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. BEAR LAKE 1-13

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	190	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	85,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	7.0	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.080	-	-	TR	12/10/2021
SULFATE EPA 300.0	640	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	120,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

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
PROJECT NO: GTA PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 2:20 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: ST. MAPLE GROVE 1-6 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	20,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,400	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	5,900	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

MI

SAMPLED BY: LER

SAMPLE ID: ST. MAPLE GROVE 1-6 SWD

GTA PROJECT NO: 111621-2

GTA SAMPLE NO: 16

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 2:20 PM

SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	240	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	250,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.5	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.222	-	-	TR	12/10/2021
SULFATE EPA 300.0	83	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	320,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

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GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 17

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 3:00 PM

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: FALK 1-4 SWD

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	ND	1.0	mg/L (PPM)	MR	12/1/2021	EPA 3005A
CALCIUM DISS EPA 6020A	28,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
IRON TOTAL EPA 6020A	21	10	mg/L (PPM)	MR	12/1/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	3,200	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	8,100	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

MI

SAMPLED BY: LER

SAMPLE ID: FALK 1-4 SWD

GTA PROJECT NO: 111621-2

GTA SAMPLE NO: 17

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 3:00 PM

SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	200	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	250,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.3	0.10	s.u.	TR	12/10/2021
RESISTIVITY SM 2510A	2.6	-	ohms x cm	TR	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.215	-	-	TR	12/10/2021
SULFATE EPA 300.0	130	50	mg/L (PPM)	TR	12/1/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	350,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/12/2021
TIME SAMPLED: 10:55 AM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: RAPID RIVER 1-24 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	34,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	3,800	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	9,900	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 18

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/12/2021

TIME SAMPLED: 10:55 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: RAPID RIVER 1-24 SWD

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	240	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	210,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.7	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.191	-	-	TR	12/10/2021
SULFATE EPA 300.0	72	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	290,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED



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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 1:00 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: ST. MAPLE GROVE 1-16 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	22,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	3,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	8,400	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 19

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 1:00 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. MAPLE GROVE 1-16 SWD

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	180	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	250,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.7	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.174	-	-	TR	12/10/2021
SULFATE EPA 300.0	190	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	300,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED



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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 12:04 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: BOWMAN ST MAYFIELD 6-19 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	13,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,800	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	7,600	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

MI

SAMPLED BY: LER

SAMPLE ID: BOWMAN ST MAYFIELD 6-19 SWD

GTA PROJECT NO: 111621-2

GTA SAMPLE NO: 20

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 12:04 PM

SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	220	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	220,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.9	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.176	-	-	TR	12/10/2021
SULFATE EPA 300.0	170	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	300,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED



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GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 21

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 2:00 PM

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

SAMPLED BY: MI
LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. SPRINGDALE 1-28 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	37,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	4,700	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	12,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 21

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 2:00 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. SPRINGDALE 1-28 SWD

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	230	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	250,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.5	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.216	-	-	TR	12/10/2021
SULFATE EPA 300.0	180	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	320,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: ST. WHITEWATER 1-32 SWD

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	ND	1.0	mg/L (PPM)	MR	12/1/2021	EPA 3005A
CALCIUM DISS EPA 6020A	25,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
IRON TOTAL EPA 6020A	11	10	mg/L (PPM)	MR	12/1/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	2,900	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	5,200	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-2

PROJECT NO:

GTA SAMPLE NO: 22

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 11:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. WHITEWATER 1-32 SWD

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	270	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	300,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.0	0.10	s.u.	TR	12/10/2021
RESISTIVITY SM 2510A	2.2	-	ohms x cm	TR	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.239	-	-	TR	12/10/2021
SULFATE EPA 300.0	100	50	mg/L (PPM)	TR	12/1/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	370,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-2
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 12:24 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: WALTON 6-16 SWD

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	36,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	4,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	7,400	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

MI

SAMPLED BY: LER

SAMPLE ID: WALTON 6-16 SWD

GTA PROJECT NO: 111621-2

GTA SAMPLE NO: 23

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 12:24 PM

SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	280	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	260,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.5	0.10	s.u.	TR	12/10/2021
SPECIFIC GRAVITY SM 2710F	1.228	-	-	TR	12/10/2021
SULFATE EPA 300.0	110	50	mg/L (PPM)	TR	12/1/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	320,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

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: 111621-2

PROJECT NO:

GTA SAMPLE NO: 24

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 12:45 PM

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

SAMPLED BY: MI
LER

SAMPLE MATRIX: BRINE

SAMPLE ID: PARCELLS 2-9 SWD

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	ND	1.0	mg/L (PPM)	MR	12/1/2021	EPA 3005A
CALCIUM DISS EPA 6020A	110,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
IRON TOTAL EPA 6020A	32	10	mg/L (PPM)	MR	12/1/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	16,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A
SODIUM DISS EPA 6020A	33,000	100	mg/L (PPM)	MR	12/1/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

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SAMPLE ID: PARCELS 2-9 SWD

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	290	10	mg/L (PPM)	TR	12/10/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/10/2021
CHLORIDE EPA 300.0	270,000	2,000	mg/L (PPM)	TR	12/1/2021
pH EPA 150.1 - LAB	5.3	0.10	s.u.	TR	12/10/2021
RESISTIVITY SM 2510A	2.1	-	ohms x cm	TR	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.234	-	-	TR	12/10/2021
SULFATE EPA 300.0	120	50	mg/L (PPM)	TR	12/1/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	350,000	5.0	mg/L (PPM)	TR	12/8/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

10/2

CHAIN OF CUSTODY

PROJECT NUMBER Annals	SITE NAME/ADDRESS Kalkaska, MI	COMPANY NAME Lambton Energy
SAMPLED BY raious	COMPANY same	GTA PROJECT # 11621-2

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	St. Albans 2-25 ^{sand}	11/3/2021	2:12 P	Brine	Parameter # 1
2	St. Chester 1-19 ^{sand}	"	1:20 PM	"	"
3	Larrison C4-21 ^{sand}	11/4/2021	10:40 A	"	Parameter # 2
4	Lake Huron Savage ^{sand}	11/12/2021	11 A	"	"
5	NMLD 1-22 ^{sand}	"	"	"	Parameter # 1
6	St. Frederic 1-10 ^{sand}	"	"	"	"
7	St. Blue Lake 1-17 ^{sand}	11/11/2021	2:00 pm	"	"
8	Nickerson 5-1 ^{sand}	11/12/2021	10 AM	"	"
9	St. Bear Lake 1-32 ^{sand}	11/11/2021	1:50 p	"	"
10	Hilliard 2-26 W16 ⁽¹⁰⁾	11/11/2021	1:25 p	"	Parameter # 2
11	Sedlar Johnson 3-26 ⁽¹⁰⁾	11/11/2021	1:35 p	"	"
12	St. Manistee 1-15 ^{sand}	11/11/2021	2:15 p	"	Parameter # 1
13	St. Manistee 1-23 ^{sand}	11/11/2021	1:30 p	"	"
14	St. Bear Lake 1-22 ^{sand}	11/11/2021	1:35 p	"	"
15	St. Bear Lake 1-13	11/11/2021	2:10 p	"	"

BILL TO:

Temp Rec: ☐

On Ice? ☐ ☐

REPORT TO:

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

[Signature]

11/16/2021 11:48 am

[Signature]

11/16/21 11:48

REQUESTED TAT

☐ STANDARD

☐ 1 BUSINESS DAY

☐ 2 BUSINESS DAYS

☐ 3 BUSINESS DAYS

20/2

CHAIN OF CUSTODY

PROJECT NUMBER Annals	SITE NAME/ADDRESS Kalkaska, MI	COMPANY/NAME Lambda Energy
SAMPLED BY various	COMPANY same	GTA PROJECT # 116021-2

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
16	St. Maple Grove 1-6 ^{sud}	11/11/2021	2:20p	Brine	Parameter #1
17	Falk 1-4 ^{sud}	11/11/2021	3:00p	"	Parameter #2
18	Rapid River 1-24 ^{sud}	11/12/2021	10:55a	"	Parameter #1
19	St. Maple Grove 1-16 ^{sud}	11/11/2021	1:00p	"	"
20	Dowman St ^{sud}	11/11/2021	12:04p	"	"
21	St. Springdale ^{sud}	11/11/2021	2:20p	"	"
22	St. Whiteoak 1-32 ^{sud}	11/11/2021	11a	"	Parameter #2
23	Watson 6-16 ^{sud}	11/11/2021	12:24p	"	Parameter #1
24	Parcells 2-9 ^{sud}	11/11/2021	12:45p	"	Parameter #2

BILL TO:	TempRec: ☐ Y ☐ N	On Ice? ☐ ☐	REPORT TO:
RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
<i>[Signature]</i>	11/16/21 11:48am	<i>[Signature]</i>	11/16/21 11:48
REQUESTED TAT	☐ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS		