

**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: ANNUALS

GTA ProjNo: 110323-6

Site Addr: EPA-UIC ANNUAL SAMPLES

Sampled By: LER

Date Rec: 11/3/2023

Time Rec: 10:51 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	WHITEWATER 2-32	10/22/2023	10:30 AM	BRINE
2	WHITEWATER 1-35	10/22/2023	11:20 AM	BRINE
3	WHITEWATER 1-32	10/22/2023	10:30 AM	BRINE
4	NICKERSON 5-1	10/22/2023	9:30 AM	BRINE
5	WHITEWATER 1-36	10/22/2023	11:15 AM	BRINE
6	PARADISE 1-19	10/22/2023	8:00 AM	BRINE
7	SALLING HANSON 4-4	10/23/2023	9:00 AM	BRINE
8	SALLING HANSON 3-11	10/25/2023	8:30 AM	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
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: ANNUALS
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 10/22/2023
TIME SAMPLED: 10:30 AM
DATE RECEIVED: 11/3/2023
TIME RECEIVED: 10:51 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: WHITEWATER 2-32

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	200	mg/L (PPM)	MR	11/9/2023	EPA 3005A
MAGNESIUM DISS EPA 6020A	3,400	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A
SODIUM DISS EPA 6020A	8,600	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A

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

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: ANNUALS
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: WHITEWATER 2-32

GTA PROJECT NO: 110323-6
GTA SAMPLE NO: 1
DATE RECEIVED: 11/3/2023
TIME RECEIVED: 10:51 AM
DATE SAMPLED: 10/22/2023
TIME SAMPLED: 10:30 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)	170	10	mg/L (PPM)	TR	11/17/2023
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/17/2023
CHLORIDE EPA 300.0	330,000	2,000	mg/L (PPM)	KC/TR	11/15/2023
pH EPA 150.1 - LAB	4.9	0.10	s.u.	TR	11/17/2023
SPECIFIC GRAVITY SM 2710F	1.216	-	-	TR	11/17/2023
SULFATE EPA 300.0	ND	80	mg/L (PPM)	KC/TR	11/16/2023
TOTAL DISSOLVED SOLIDS EPA 160.1	410,000	5.0	mg/L (PPM)	TR	11/15/2023

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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: ANNUALS
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 10/22/2023
TIME SAMPLED: 11:20 AM
DATE RECEIVED: 11/3/2023
TIME RECEIVED: 10:51 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: WHITEWATER 1-35

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	31,000	200	mg/L (PPM)	MR	11/9/2023	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,800	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A
SODIUM DISS EPA 6020A	7,300	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A

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PROJECT NO: ANNUALS
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: WHITEWATER 1-35

GTA PROJECT NO: 110323-6
GTA SAMPLE NO: 2
DATE RECEIVED: 11/3/2023
TIME RECEIVED: 10:51 AM
DATE SAMPLED: 10/22/2023
TIME SAMPLED: 11:20 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)	150	10	mg/L (PPM)	TR	11/17/2023
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/17/2023
CHLORIDE EPA 300.0	300,000	2,000	mg/L (PPM)	KC/TR	11/15/2023
pH EPA 150.1 - LAB	5.0	0.10	s.u.	TR	11/17/2023
SPECIFIC GRAVITY SM 2710F	1.257	-	-	TR	11/17/2023
SULFATE EPA 300.0	ND	80	mg/L (PPM)	KC/TR	11/16/2023
TOTAL DISSOLVED SOLIDS EPA 160.1	420,000	5.0	mg/L (PPM)	TR	11/15/2023

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COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 110323-6
PROJECT NO: ANNUALS GTA SAMPLE NO: 3
LOCATION: EPA-UIC ANNUAL SAMPLES DATE SAMPLED: 10/22/2023
TIME SAMPLED: 10:30 AM
DATE RECEIVED: 11/3/2023
TIME RECEIVED: 10:51 AM
SAMPLED BY: MI SAMPLE MATRIX: BRINE
LER
SAMPLE ID: WHITEWATER 1-32

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	2.0	mg/L (PPM)	MR	11/9/2023	EPA 3005A
CALCIUM DISS EPA 6020A	33,000	200	mg/L (PPM)	MR	11/9/2023	EPA 3005A
IRON TOTAL EPA 6020A	ND	2.0	mg/L (PPM)	MR	11/9/2023	EPA 3020A
MAGNESIUM DISS EPA 6020A	3,200	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A
SODIUM DISS EPA 6020A	8,200	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A

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PROJECT NO: ANNUALS
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: WHITEWATER 1-32

GTA PROJECT NO: 110323-6
GTA SAMPLE NO: 3
DATE RECEIVED: 11/3/2023
TIME RECEIVED: 10:51 AM
DATE SAMPLED: 10/22/2023
TIME SAMPLED: 10:30 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)	160	10	mg/L (PPM)	TR	11/17/2023
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/17/2023
CHLORIDE EPA 300.0	290,000	2,000	mg/L (PPM)	KC/TR	11/15/2023
pH EPA 150.1 - LAB	5.0	0.10	s.u.	TR	11/17/2023
RESISTIVITY SM 2510A	1.7	-	ohms x cm	TR	11/9/2023
SPECIFIC GRAVITY SM 2710F	1.228	-	-	TR	11/17/2023
SULFATE EPA 300.0	ND	80	mg/L (PPM)	KC/TR	11/16/2023
SULFIDE SM 4500S D	ND	5.0	mg/L (PPM)	TR	11/4/2023
TOTAL DISSOLVED SOLIDS EPA 160.1	410,000	5.0	mg/L (PPM)	TR	11/15/2023

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 110323-6

PROJECT NO: ANNUALS

GTA SAMPLE NO: 4

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/22/2023

TIME SAMPLED: 9:30 AM

DATE RECEIVED: 11/3/2023

TIME RECEIVED: 10:51 AM

SAMPLED BY: MI
LER

SAMPLE MATRIX: BRINE

SAMPLE ID: NICKERSON 5-1

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	39,000	200	mg/L (PPM)	MR	11/9/2023	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,800	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A
SODIUM DISS EPA 6020A	2,900	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: ANNUALS
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: NICKERSON 5-1

GTA PROJECT NO: 110323-6
GTA SAMPLE NO: 4
DATE RECEIVED: 11/3/2023
TIME RECEIVED: 10:51 AM
DATE SAMPLED: 10/22/2023
TIME SAMPLED: 9:30 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)	22	10	mg/L (PPM)	TR	11/17/2023
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/17/2023
CHLORIDE EPA 300.0	240,000	2,000	mg/L (PPM)	KC/TR	11/15/2023
pH EPA 150.1 - LAB	4.7	0.10	s.u.	TR	11/17/2023
SPECIFIC GRAVITY SM 2710F	1.221	-	-	TR	11/17/2023
SULFATE EPA 300.0	160	80	mg/L (PPM)	KC/TR	11/16/2023
TOTAL DISSOLVED SOLIDS EPA 160.1	340,000	5.0	mg/L (PPM)	TR	11/15/2023

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 110323-6

PROJECT NO: ANNUALS

GTA SAMPLE NO: 5

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/22/2023

TIME SAMPLED: 11:15 AM

DATE RECEIVED: 11/3/2023

TIME RECEIVED: 10:51 AM

SAMPLED BY: MI
LER

SAMPLE MATRIX: BRINE

SAMPLE ID: WHITEWATER 1-36

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	26,000	200	mg/L (PPM)	MR	11/9/2023	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,300	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A
SODIUM DISS EPA 6020A	5,800	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: ANNUALS
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: WHITEWATER 1-36

GTA PROJECT NO: 110323-6
GTA SAMPLE NO: 5
DATE RECEIVED: 11/3/2023
TIME RECEIVED: 10:51 AM
DATE SAMPLED: 10/22/2023
TIME SAMPLED: 11:15 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)	170	10	mg/L (PPM)	TR	11/17/2023
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/17/2023
CHLORIDE EPA 300.0	290,000	2,000	mg/L (PPM)	KC/TR	11/15/2023
pH EPA 150.1 - LAB	5.0	0.10	s.u.	TR	11/17/2023
SPECIFIC GRAVITY SM 2710F	1.246	-	-	TR	11/17/2023
SULFATE EPA 300.0	ND	80	mg/L (PPM)	KC/TR	11/16/2023
TOTAL DISSOLVED SOLIDS EPA 160.1	410,000	5.0	mg/L (PPM)	TR	11/15/2023

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: ANNUALS
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 10/22/2023
TIME SAMPLED: 8:00 AM
DATE RECEIVED: 11/3/2023
TIME RECEIVED: 10:51 AM
SAMPLE MATRIX: BRINE
SAMPLED BY: MI
LER
SAMPLE ID: PARADISE 1-19

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	14,000	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,100	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A
SODIUM DISS EPA 6020A	3,600	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: ANNUALS

LOCATION: EPA-UIC ANNUAL SAMPLES

MI
SAMPLED BY: LER

SAMPLE ID: PARADISE 1-19

GTA PROJECT NO: 110323-6

GTA SAMPLE NO: 6

DATE RECEIVED: 11/3/2023

TIME RECEIVED: 10:51 AM

DATE SAMPLED: 10/22/2023

TIME SAMPLED: 8:00 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)	ND	10	mg/L (PPM)	TR	11/17/2023
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/17/2023
CHLORIDE EPA 300.0	240,000	2,000	mg/L (PPM)	KC/TR	11/15/2023
pH EPA 150.1 - LAB	2.6	0.10	s.u.	TR	11/17/2023
SPECIFIC GRAVITY SM 2710F	1.231	-	-	TR	11/17/2023
SULFATE EPA 300.0	240	80	mg/L (PPM)	KC/TR	11/16/2023
TOTAL DISSOLVED SOLIDS EPA 160.1	360,000	5.0	mg/L (PPM)	TR	11/15/2023

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 110323-6

PROJECT NO: ANNUALS

GTA SAMPLE NO: 7

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/23/2023

TIME SAMPLED: 9:00 AM

DATE RECEIVED: 11/3/2023

TIME RECEIVED: 10:51 AM

SAMPLED BY: MI
LER

SAMPLE MATRIX: BRINE

SAMPLE ID: SALLING HANSON 4-4

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	200	mg/L (PPM)	MR	11/9/2023	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,600	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A
SODIUM DISS EPA 6020A	6,200	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: ANNUALS
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: SALLING HANSON 4-4

GTA PROJECT NO: 110323-6
GTA SAMPLE NO: 7
DATE RECEIVED: 11/3/2023
TIME RECEIVED: 10:51 AM
DATE SAMPLED: 10/23/2023
TIME SAMPLED: 9:00 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)	89	10	mg/L (PPM)	TR	11/17/2023
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/17/2023
CHLORIDE EPA 300.0	220,000	2,000	mg/L (PPM)	KC/TR	11/15/2023
pH EPA 150.1 - LAB	5.8	0.10	s.u.	TR	11/17/2023
SPECIFIC GRAVITY SM 2710F	1.185	-	-	TR	11/17/2023
SULFATE EPA 300.0	ND	80	mg/L (PPM)	KC/TR	11/16/2023
TOTAL DISSOLVED SOLIDS EPA 160.1	290,000	5.0	mg/L (PPM)	TR	11/15/2023

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 110323-6

PROJECT NO: ANNUALS

GTA SAMPLE NO: 8

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/25/2023

TIME SAMPLED: 8:30 AM

DATE RECEIVED: 11/3/2023

TIME RECEIVED: 10:51 AM

SAMPLED BY: MI
LER

SAMPLE MATRIX: BRINE

SAMPLE ID: SALLING HANSON 3-11

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	970	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A
MAGNESIUM DISS EPA 6020A	100	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A
SODIUM DISS EPA 6020A	1,000	20	mg/L (PPM)	MR	11/9/2023	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: ANNUALS

LOCATION: EPA-UIC ANNUAL SAMPLES

MI
SAMPLED BY: LER

SAMPLE ID: SALLING HANSON 3-11

GTA PROJECT NO: 110323-6

GTA SAMPLE NO: 8

DATE RECEIVED: 11/3/2023

TIME RECEIVED: 10:51 AM

DATE SAMPLED: 10/25/2023

TIME SAMPLED: 8:30 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)	61	10	mg/L (PPM)	TR	11/17/2023
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/17/2023
CHLORIDE EPA 300.0	15,000	2,000	mg/L (PPM)	KC/TR	11/15/2023
pH EPA 150.1 - LAB	7.1	0.10	s.u.	TR	11/17/2023
SPECIFIC GRAVITY SM 2710F	1.000	-	-	TR	11/17/2023
SULFATE EPA 300.0	150	80	mg/L (PPM)	KC/TR	11/16/2023
TOTAL DISSOLVED SOLIDS EPA 160.1	23,000	5.0	mg/L (PPM)	TR	11/15/2023

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

CHAIN OF CUSTODY

PROJECT NUMBER Annuals	SITE NAME/ADDRESS Kalkaska MI	COMPANY/NAME Lambda Energy
SAMPLED BY VARIOUS	COMPANY Same	GTA PROJECT # 110323-6

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	Whitewater 2-32	10/22/2023	10:30am	Brine	Parameter #1
2	Whitewater 1-35	10/22/2023	11:20am	Brine	" "
3	Whitewater 1-32	10/22/2023	10:30am	Brine	Parameter #2
4	Nickerson 5-1	10/22/2023	9:30am	Brine	Parameter #1
5	Whitewater 1-36	10/22/2023	11:15am	Brine	Parameter #1
6	Paradise 1-9	10/22/2023	8am	Brine	" "
7	Salling Hanson 4-4	10/23/2023	9am	Brine	" "
8	Salling Hanson 3-11	10/25/2023	8:30am	Brine	Parameter #1

BILL TO:	TempRec: ☐ Y ☐ N On Ice? ☐ ☐	REPORT TO:
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RELEASED BY Kris McLean	DATE/TIME 11/3/23 10:57 AM	RECEIVED BY R. W.	DATE/TIME 11/3/23 10:51 AM

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