



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: 20.064
GTA ProjNo: 092123-7

Site Addr: CASE 33
Sampled By: KWB/HURON
Date Rec: 9/21/2023
Time Rec: 12:45 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-2S (64-74)	9/20/2023		WATER
2	MW-2D (94-99')	9/20/2023		WATER
3	MW-5 (89-99')	9/20/2023		WATER
4	MW-8S (65-75')	9/20/2023		WATER
5	MW-8D (123-128')	9/20/2023		WATER
6	MW-9S (94-104')	9/20/2023		WATER
7	MW-9M (115-120')	9/20/2023		WATER
8	MW-10 (114-119')	9/20/2023		WATER
9	MW-13D (121-126')	9/20/2023		WATER
10	MW-14D (176-181')	9/19/2023		WATER
11	MW-15D (172-177')	9/20/2023		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
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SP: 231-590-0291
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INDEPENDENT TESTING LAB

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FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 20.064
 LOCATION: CASE 33
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-2S (64-74)

GTA PROJECT NO: 092123-7
 GTA SAMPLE NO: 1
 DATE SAMPLED: 9/20/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/21/2023
 TIME RECEIVED: 12:45 PM

SAMPLED BY: KWB/HURON

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/23/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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: 20.064
LOCATION: CASE 33
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-2D (94-99')

GTA PROJECT NO: 092123-7
GTA SAMPLE NO: 2
DATE SAMPLED: 9/20/2023
TIME SAMPLED:
DATE RECEIVED: 9/21/2023
TIME RECEIVED: 12:45 PM
SAMPLED BY: KWB/HURON

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/23/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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: 20.064
 LOCATION: CASE 33
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-5 (89-99')

GTA PROJECT NO: 092123-7
 GTA SAMPLE NO: 3
 DATE SAMPLED: 9/20/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/21/2023
 TIME RECEIVED: 12:45 PM
 SAMPLED BY: KWB/HURON

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/23/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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: 20.064
LOCATION: CASE 33
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-8S (65-75')

GTA PROJECT NO: 092123-7
GTA SAMPLE NO: 4
DATE SAMPLED: 9/20/2023
TIME SAMPLED:
DATE RECEIVED: 9/21/2023
TIME RECEIVED: 12:45 PM
SAMPLED BY: KWB/HURON

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/23/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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: 20.064
LOCATION: CASE 33
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-8D (123-128')

GTA PROJECT NO: 092123-7
GTA SAMPLE NO: 5
DATE SAMPLED: 9/20/2023
TIME SAMPLED:
DATE RECEIVED: 9/21/2023
TIME RECEIVED: 12:45 PM
SAMPLED BY: KWB/HURON

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/23/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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: 20.064
LOCATION: CASE 33
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-10 (114-119')

GTA PROJECT NO: 092123-7
GTA SAMPLE NO: 8
DATE SAMPLED: 9/20/2023
TIME SAMPLED:
DATE RECEIVED: 9/21/2023
TIME RECEIVED: 12:45 PM
SAMPLED BY: KWB/HURON

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/23/2023	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
ND = NOT DETECTED, RESULT < LOD
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20.064
LOCATION: CASE 33

GTA PROJECT NO: 092123-7
GTA SAMPLE NO: 1

DATE SAMPLED: 9/20/2023
TIME SAMPLED:
DATE RECEIVED: 9/21/2023
TIME RECEIVED: 12:45 PM

SAMPLED BY: MI
KWB/HURON

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-2S (64-74) CHLORIDE EPA 300.0	13	10	mg/L (PPM)	TR/KC	9/27/2023	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: 20.064
 LOCATION: CASE 33

GTA PROJECT NO: 092123-7
 GTA SAMPLE NO: 2

DATE SAMPLED: 9/20/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/21/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-2D (94-99') CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR/KC	9/27/2023	WATER

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



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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20.064
LOCATION: CASE 33

GTA PROJECT NO: 092123-7
GTA SAMPLE NO: 3

DATE SAMPLED: 9/20/2023
TIME SAMPLED:
DATE RECEIVED: 9/21/2023
TIME RECEIVED: 12:45 PM

SAMPLED BY: MI
KWB/HURON

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-5 (89-99') CHLORIDE EPA 300.0	14	10	mg/L (PPM)	TR/KC	9/27/2023	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: 20.064
 LOCATION: CASE 33

GTA PROJECT NO: 092123-7
 GTA SAMPLE NO: 4

DATE SAMPLED: 9/20/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/21/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-8S (65-75') CHLORIDE EPA 300.0	12	10	mg/L (PPM)	TR/KC	9/27/2023	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: 20.064
 LOCATION: CASE 33

GTA PROJECT NO: 092123-7
 GTA SAMPLE NO: 5

DATE SAMPLED: 9/20/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/21/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-8D (123-128') CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR/KC	9/27/2023	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: 20.064
 LOCATION: CASE 33

GTA PROJECT NO: 092123-7
 GTA SAMPLE NO: 6
 DATE SAMPLED: 9/20/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/21/2023
 TIME RECEIVED: 12:45 PM

SAMPLED BY: MI
 KWB/HURON

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-9S (94-104') CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR/KC	9/27/2023	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: 20.064
 LOCATION: CASE 33

GTA PROJECT NO: 092123-7
 GTA SAMPLE NO: 7

DATE SAMPLED: 9/20/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/21/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-9M (115-120') CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR/KC	9/27/2023	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: 20.064
 LOCATION: CASE 33

GTA PROJECT NO: 092123-7
 GTA SAMPLE NO: 8

DATE SAMPLED: 9/20/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/21/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-10 (114-119') CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR/KC	9/27/2023	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: 20.064
 LOCATION: CASE 33

GTA PROJECT NO: 092123-7
 GTA SAMPLE NO: 9

DATE SAMPLED: 9/20/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/21/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-13D (121-126') CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	TR/KC	9/27/2023	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: 20.064
 LOCATION: CASE 33

GTA PROJECT NO: 092123-7
 GTA SAMPLE NO: 10
 DATE SAMPLED: 9/19/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/21/2023
 TIME RECEIVED: 12:45 PM

SAMPLED BY: MI
 KWB/HURON

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-14D (176-181') CHLORIDE EPA 300.0	16	10	mg/L (PPM)	TR/KC	9/27/2023	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: 20.064
 LOCATION: CASE 33

GTA PROJECT NO: 092123-7
 GTA SAMPLE NO: 11
 DATE SAMPLED: 9/20/2023
 TIME SAMPLED:
 DATE RECEIVED: 9/21/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

<u>No:</u> <u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID: MW-15D (172-177') CHLORIDE EPA 300.0	18	10	mg/L (PPM)	TR/KC	9/27/2023	WATER

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

Annual ICA Groundwater Monitoring
CHAIN OF CUSTODY

PROJECT NUMBER 20.064	SITE NAME/ADDRESS Case 33	COMPANY/NAME Lambda
SAMPLED BY Kimberly Burke	COMPANY Huron Engineering & Surveying	GTA PROJECT # 092123-7

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS	FC m/s/cm
1	MW 2S (64-74)	9/20/23		GW	Cl- 4 HIP's	0.75
2	MW 2D (94-99')	"		"	"	0.49
3	MW 5 (89-99')	"		"	"	0.68
4	MW 8S (65-75')	"		"	"	0.68
5	MW 8D (123-128')	"		"	"	0.43
6	MW 9S (94-104')	"		"	Cl-	0.50
7	MW 9M (115-120')	"		"	"	0.52
8	MW 10 (114-119')	"		"	Cl- 4 HIP's	0.60
9	MW 13D (121-126')	"		"	Cl-	0.68
10	MW 14D (176-181')	9/19/23		"	"	0.61
11	MW 15D (172-177')	9/20/23		"	"	0.61

BILL TO: Lambda NS	Temp Rec: <input type="checkbox"/> 1.0°C	On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	REPORT TO: Huron KWB
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RELEASED BY Kimberly Burke	DATE/TIME	RECEIVED BY Alpena UPS	DATE/TIME 9/20/23
			9/21/23 12:45

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