

**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: MANISTEE 14 FIELD PUMP

GTA ProjNo: 070721-6

Sampled By: NICK SUMMERLAND/LER
Date Rec: 7/7/2021
Time Rec: 4:46 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	S-SW	7/7/2021	1:08 PM	SOIL
2	FL-1	7/7/2021	1:13 PM	SOIL
3	N-SW	7/7/2021	1:20 PM	SOIL
4	E-SW	7/7/2021	1:39 PM	SOIL
5	FL-2	7/7/2021	2:30 PM	SOIL
6	W-SW	7/7/2021	2:53 PM	SOIL

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

**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:

LOCATION: MANISTEE 14 FIELD PUMP

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: S-SW

GTA PROJECT NO: 070721-6

GTA SAMPLE NO: 1

DATE SAMPLED: 7/7/2021

TIME SAMPLED: 1:08 PM

DATE RECEIVED: 7/7/2021

TIME RECEIVED: 4:46 PM

SAMPLED BY: NICK SUMMERLAND/LER

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	7/7/2021	7/11/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

**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: 070721-6

PROJECT NO:

GTA SAMPLE NO: 2

LOCATION: MANISTEE 14 FIELD PUMP

DATE SAMPLED: 7/7/2021

TIME SAMPLED: 1:13 PM

MI

DATE RECEIVED: 7/7/2021

TIME RECEIVED: 4:46 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: FL-1

SAMPLED BY: NICK SUMMERLAND/LER

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	7/7/2021	7/11/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

**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: 070721-6

PROJECT NO:

GTA SAMPLE NO: 3

LOCATION: MANISTEE 14 FIELD PUMP

DATE SAMPLED: 7/7/2021

TIME SAMPLED: 1:20 PM

DATE RECEIVED: 7/7/2021

TIME RECEIVED: 4:46 PM

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: N-SW

SAMPLED BY: NICK SUMMERLAND/LER

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	7/7/2021	7/11/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

**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: 070721-6

PROJECT NO:

GTA SAMPLE NO: 4

LOCATION: MANISTEE 14 FIELD PUMP

DATE SAMPLED: 7/7/2021

TIME SAMPLED: 1:39 PM

MI

DATE RECEIVED: 7/7/2021

TIME RECEIVED: 4:46 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: E-SW

SAMPLED BY: NICK SUMMERLAND/LER

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	7/7/2021	7/11/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

**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: 070721-6

PROJECT NO:

GTA SAMPLE NO: 5

LOCATION: MANISTEE 14 FIELD PUMP

DATE SAMPLED: 7/7/2021

TIME SAMPLED: 2:30 PM

MI

DATE RECEIVED: 7/7/2021

TIME RECEIVED: 4:46 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: FL-2

SAMPLED BY: NICK SUMMERLAND/LER

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	7/7/2021	7/11/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 070721-6

PROJECT NO:

GTA SAMPLE NO: 6

LOCATION: MANISTEE 14 FIELD PUMP

DATE SAMPLED: 7/7/2021

TIME SAMPLED: 2:53 PM

MI

DATE RECEIVED: 7/7/2021

TIME RECEIVED: 4:46 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: W-SW

SAMPLED BY: NICK SUMMERLAND/LER

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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>Complete</u>	<u>Prep Method</u>
Benzene	200	50	ug/Kg (PPB)	MR	7/7/2021	7/12/2021	EPA 5035A
Toluene	910	50					
Ethylbenzene	150	50					
Xylene(Total)	480	150					
1,2,4-Trimethylbenzene	160	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

**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: 070721-

NAME:

SAMPLED BY: NICK SUMMERLAND/LER

PROJECT NO:

DATE SAMPLED: 7/7/2021

TIME SAMPLED: 1:08 PM

LOCATION: MANISTEE 14 FIELD PUMP

SAMPLE MATRIX: SOIL

DATE RECEIVED: 7/7/2021

TIME RECEIVED: 4:46 PM

MI

MOISTURE

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
SAMPLE ID: S-SW	% MOISTURE EPA 3550C	4.2	0.050	% OF SAMPLE	AS	7/7/2021
SAMPLE ID: FL-1	% MOISTURE EPA 3550C	4.7	0.050	% OF SAMPLE	AS	7/7/2021
SAMPLE ID: N-SW	% MOISTURE EPA 3550C	5.7	0.050	% OF SAMPLE	AS	7/7/2021
SAMPLE ID: E-SW	% MOISTURE EPA 3550C	5.1	0.050	% OF SAMPLE	AS	7/7/2021
SAMPLE ID: FL-2	% MOISTURE EPA 3550C	5.0	0.050	% OF SAMPLE	AS	7/7/2021
SAMPLE ID: W-SW	% MOISTURE EPA 3550C	9.4	0.050	% OF SAMPLE	AS	7/7/2021

CHAIN OF CUSTODY

PROJECT NUMBER	SITE NAME/ADDRESS	COMPANY/NAME
	Manistee 14 Field Pump	Lambda Energy
SAMPLED BY	COMPANY	GTA PROJECT #
Nick Summerland	Lambda Energy	070721-6

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	S-SW	7-7-21	1:08P	Soil	BTEX +4
2	FL-1	↓	1:13P	↓	↓
3	N-SW		1:20P		
4	E-SW		1:39P		
5	FL-2		2:30P		
6	W-SW		2:53P		

BILL TO:

Lambda Energy

REPORT TO:

N Summerland

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

Nick Summerland 7-7-21 4:46PM

ASV 7/7/21 4:46
rec 1.0°C

DNTE

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