



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: 2018100134.03
GTA ProjNo: 062620-12

Site Addr: UNION 28 CPF

Sampled By: MIKE RANKENS/GCES
Date Rec: 6/26/2020
Time Rec: 4:08 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	2020-SB-1 (12')	6/25/2020	10:05 AM	SOIL
2	2020-SB-2 (12')	6/25/2020	11:25 AM	SOIL
3	2020-SB-3 (27.5')	6/25/2020	1:30 PM	SOIL
4	2020-SB-6 (3')	6/25/2020	3:50 PM	SOIL
5	2020-SB-7 (8')	6/26/2020	7:50 AM	SOIL
6	2020-SB-7 (13')	6/26/2020	8:00 AM	SOIL
7	2020-SB-8 (8')	6/26/2020	8:45 AM	SOIL
8	2020-SB-8 (11')	6/26/2020	8:55 AM	SOIL
9	2020-SB-9 (3')	6/26/2020	9:45 AM	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
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COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	062620-12
PROJECT NO:	2018100134.03	GTA SAMPLE NO:	1
LOCATION:	UNION 28 CPF	DATE SAMPLED:	6/25/2020
		TIME SAMPLED:	10:05 AM
		DATE RECEIVED:	6/26/2020
	MI	TIME RECEIVED:	4:08 PM
SAMPLE MATRIX:	SOIL	SAMPLED BY:	MIKE RANKENS/GCES
SAMPLE ID:	2020-SB-1 (12')	**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	6/25/2020	6/27/2020	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



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COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	062620-12
PROJECT NO:	2018100134.03	GTA SAMPLE NO:	2
LOCATION:	UNION 28 CPF	DATE SAMPLED:	6/25/2020
		TIME SAMPLED:	11:25 AM
		DATE RECEIVED:	6/26/2020
	MI	TIME RECEIVED:	4:08 PM
SAMPLE MATRIX:	SOIL	SAMPLED BY:	MIKE RANKENS/GCES
SAMPLE ID:	2020-SB-2 (12')	**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	6/25/2020	6/27/2020	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					

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COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	062620-12
PROJECT NO:	2018100134.03	GTA SAMPLE NO:	3
LOCATION:	UNION 28 CPF	DATE SAMPLED:	6/25/2020
		TIME SAMPLED:	1:30 PM
		DATE RECEIVED:	6/26/2020
	MI	TIME RECEIVED:	4:08 PM
SAMPLE MATRIX:	SOIL	SAMPLED BY:	MIKE RANKENS/GCES
SAMPLE ID:	2020-SB-3 (27.5')	**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	6/25/2020	6/27/2020	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.
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 LOD = LIMIT OF DETECTION

COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100134.03

LOCATION: UNION 28 CPF

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: 2020-SB-6 (3')

GTA PROJECT NO: 062620-12

GTA SAMPLE NO: 4

DATE SAMPLED: 6/25/2020

TIME SAMPLED: 3:50 PM

DATE RECEIVED: 6/26/2020

TIME RECEIVED: 4:08 PM

SAMPLED BY: MIKE RANKENS/GCES

**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	6/25/2020	6/27/2020	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.

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COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	062620-12
PROJECT NO:	2018100134.03	GTA SAMPLE NO:	5
LOCATION:	UNION 28 CPF	DATE SAMPLED:	6/26/2020
		TIME SAMPLED:	7:50 AM
		DATE RECEIVED:	6/26/2020
	MI	TIME RECEIVED:	4:08 PM
SAMPLE MATRIX:	SOIL	SAMPLED BY:	MIKE RANKENS/GCES
SAMPLE ID:	2020-SB-7 (8')	**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	6/26/2020	6/27/2020	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
 PROJECT NO: 2018100134.03
 LOCATION: UNION 28 CPF
 MI
 SAMPLE MATRIX: SOIL
 SAMPLE ID: 2020-SB-7 (13')

GTA PROJECT NO: 062620-12
 GTA SAMPLE NO: 6
 DATE SAMPLED: 6/26/2020
 TIME SAMPLED: 8:00 AM
 DATE RECEIVED: 6/26/2020
 TIME RECEIVED: 4:08 PM

SAMPLED BY: MIKE RANKENS/GCES
 **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	6/26/2020	6/27/2020	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					

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COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	062620-12
PROJECT NO:	2018100134.03	GTA SAMPLE NO:	7
LOCATION:	UNION 28 CPF	DATE SAMPLED:	6/26/2020
		TIME SAMPLED:	8:45 AM
		DATE RECEIVED:	6/26/2020
	MI	TIME RECEIVED:	4:08 PM
SAMPLE MATRIX:	SOIL	SAMPLED BY:	MIKE RANKENS/GCES
SAMPLE ID:	2020-SB-8 (8')	**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	6/26/2020	6/27/2020	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
 PROJECT NO: 2018100134.03
 LOCATION: UNION 28 CPF
 MI
 SAMPLE MATRIX: SOIL
 SAMPLE ID: 2020-SB-8 (11')

GTA PROJECT NO: 062620-12
 GTA SAMPLE NO: 8
 DATE SAMPLED: 6/26/2020
 TIME SAMPLED: 8:55 AM
 DATE RECEIVED: 6/26/2020
 TIME RECEIVED: 4:08 PM

SAMPLED BY: MIKE RANKENS/GCES
 **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	6/26/2020	6/27/2020	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					

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 LOD = LIMIT OF DETECTION

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100134.03
LOCATION: UNION 28 CPF
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2020-SB-9 (3')

GTA PROJECT NO: 062620-12
GTA SAMPLE NO: 9
DATE SAMPLED: 6/26/2020
TIME SAMPLED: 9:45 AM
DATE RECEIVED: 6/26/2020
TIME RECEIVED: 4:08 PM

SAMPLED BY: MIKE RANKENS/GCES
**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	6/26/2020	6/27/2020	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC

NAME:
PROJECT NO: 2018100134.03

LOCATION: UNION 28 CPF

MI

GTA PROJECT NO: 062620-
SAMPLED BY: MIKE RANKENS/GCES

DATE SAMPLED: 6/25/2020
TIME SAMPLED: 10:05 AM
SAMPLE MATRIX: SOIL

DATE RECEIVED: 6/26/2020
TIME RECEIVED: 4:08 PM

MOISTURE

<u>No:</u> <u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
SAMPLE ID: 2020-SB-1 (12') % MOISTURE EPA 3550C	7.0	0.050	% OF SAMPLE	AS	6/26/2020
SAMPLE ID: 2020-SB-2 (12') % MOISTURE EPA 3550C	4.7	0.050	% OF SAMPLE	AS	6/26/2020
SAMPLE ID: 2020-SB-3 (27.5') % MOISTURE EPA 3550C	6.0	0.050	% OF SAMPLE	AS	6/26/2020
SAMPLE ID: 2020-SB-6 (3') % MOISTURE EPA 3550C	4.3	0.050	% OF SAMPLE	AS	6/26/2020
SAMPLE ID: 2020-SB-7 (8') % MOISTURE EPA 3550C	5.6	0.050	% OF SAMPLE	AS	6/26/2020
SAMPLE ID: 2020-SB-7 (13') % MOISTURE EPA 3550C	7.6	0.050	% OF SAMPLE	AS	6/26/2020
SAMPLE ID: 2020-SB-8 (8') % MOISTURE EPA 3550C	4.6	0.050	% OF SAMPLE	AS	6/26/2020
SAMPLE ID: 2020-SB-8 (11') % MOISTURE EPA 3550C	2.8	0.050	% OF SAMPLE	AS	6/26/2020
SAMPLE ID: 2020-SB-9 (3') % MOISTURE EPA 3550C	5.2	0.050	% OF SAMPLE	AS	6/26/2020

CHAIN OF CUSTODY

PROJECT NUMBER 2018100134.03	SITE NAME/ADDRESS Union 28 CPF	COMPANY/NAME Lambda Energy Resources, LLC
SAMPLED BY Mike Rankens	COMPANY GCES	GTA PROJECT # 02620-12

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	2020-SB-1 (12')	6/25/20	1005	Soil	BTEX + 4
3	2020-SB-2 (12')	6/25/20	1125	Soil	BTEX + 4
3	2020-SB-3 (27.5')	6/25/20	1330	Soil	BTEX + 4
4	2020-SB-6 (3')	6/25/20	1550	Soil	BTEX + 4
5	2020-SB-7 (8')	6/26/20	0750	Soil	BTEX + 4
6	2020-SB-7 (13')	6/26/20	0800	Soil	BTEX + 4
7	2020-SB-8 (8')	6/26/20	0845	Soil	BTEX + 4
8	2020-SB-8 (11')	6/26/20	0855	Soil	BTEX + 4
9	2020-SB-9 (3')	6/26/20	0945	Soil	BTEX + 4

BILL TO:

Lambda Energy Resources, LLC
↳ Attn: Nick Summerland

REPORT TO:

ADAM BITEMAN
↳ GCES

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
<i>[Signature]</i>	6/26/20 @ 1605	<i>[Signature]</i>	6/26/20 1605 re 300g on 1g

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