

**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: 2018100156.03

GTA ProjNo: 052319-1

Site Addr: MANISTEE 23 - BAHR FLOWLINE RELEASE

Sampled By: MIKE RANKENS/GCES

Date Rec: 5/23/2019

Time Rec: 9:34 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	2019-SB-1 (1')	5/21/2019	11:45 AM	SOIL
2	2019-SB-1 (5')	5/21/2019	12:15 PM	SOIL
3	2019-SB-2 (6')	5/21/2019	12:55 PM	SOIL
4	2019-SB-2 (7')	5/21/2019	1:03 PM	SOIL
5	2019-SB-3 (7')	5/21/2019	1:42 PM	SOIL
6	2019-SB-3 (10')	5/21/2019	1:52 PM	SOIL
7	2019-SB-4 (3')	5/21/2019	2:22 PM	SOIL
8	2019-SB-4 (6')	5/21/2019	2:35 PM	SOIL
9	2019-SB-5 (4.5')	5/21/2019	3:20 PM	SOIL
10	2019-SB-6 (8.5')	5/22/2019	9:35 AM	SOIL
11	2019-SB-6 (12')	5/22/2019	12:30 PM	SOIL
12	2019-SB-6 (15')	5/22/2019	1:00 PM	SOIL
13	2019-SB-6 (17')	5/22/2019	1:15 PM	SOIL
14	2019-SB-7 (6.5')	5/22/2019	2:00 PM	SOIL
15	2019-SB-7 (12')	5/22/2019	2:30 PM	SOIL
16	2019-SB-8 (6')	5/22/2019	3:22 PM	SOIL
17	2019-SB-8 (7.5')	5/22/2019	3:31 PM	SOIL
18	2019-SB-8 (10')	5/22/2019	3:40 PM	SOIL
19	2019-SB-9 (4')	5/22/2019	4:23 PM	SOIL
20	2019-SB-10 (3.5')	5/22/2019	4:41 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 L 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: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-1 (1')
GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 1
DATE SAMPLED: 5/21/2019
TIME SAMPLED: 11:45 AM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
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	5/21/2019	5/26/2019	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
PROJECT NO: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-1 (5')
GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 2
DATE SAMPLED: 5/21/2019
TIME SAMPLED: 12:15 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
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		5/21/2019	5/26/2019	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: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 3
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/21/2019
TIME SAMPLED: 12:55 PM
MI DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-2 (6') 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		5/21/2019	5/26/2019	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
PROJECT NO: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-2 (7')

GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 4
DATE SAMPLED: 5/21/2019
TIME SAMPLED: 1:03 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
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	5/21/2019	5/26/2019	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: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-3 (7')

GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 5
DATE SAMPLED: 5/21/2019
TIME SAMPLED: 1:42 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM

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	5/21/2019	5/26/2019	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: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-3 (10")

GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 6
DATE SAMPLED: 5/21/2019
TIME SAMPLED: 1:52 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM

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		5/21/2019	5/26/2019	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
PROJECT NO: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-4 (3')
GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 7
DATE SAMPLED: 5/21/2019
TIME SAMPLED: 2:22 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
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		5/21/2019	5/26/2019	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: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-4 (6')

GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 8
DATE SAMPLED: 5/21/2019
TIME SAMPLED: 2:35 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM

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		5/21/2019	5/26/2019	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: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-5 (4.5')
GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 9
DATE SAMPLED: 5/21/2019
TIME SAMPLED: 3:20 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
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	5/21/2019	5/27/2019	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
PROJECT NO: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-6 (8.5')
GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 10
DATE SAMPLED: 5/22/2019
TIME SAMPLED: 9:35 AM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
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		5/22/2019	5/27/2019	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: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-6 (12")

GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 11
DATE SAMPLED: 5/22/2019
TIME SAMPLED: 12:30 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM

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		5/22/2019	5/27/2019	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: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 12
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/22/2019
TIME SAMPLED: 1:00 PM
MI DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-6 (15') 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		5/22/2019	5/27/2019	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: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-7 (6.5')
GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 14
DATE SAMPLED: 5/22/2019
TIME SAMPLED: 2:00 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
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		5/22/2019	5/27/2019	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: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-7 (12")

GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 15
DATE SAMPLED: 5/22/2019
TIME SAMPLED: 2:30 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM

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		5/22/2019	5/27/2019	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: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-8 (6')

GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 16
DATE SAMPLED: 5/22/2019
TIME SAMPLED: 3:22 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM

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	5/22/2019	5/27/2019	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: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 17
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/22/2019
TIME SAMPLED: 3:31 PM
MI DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-8 (7.5') 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		5/22/2019	5/27/2019	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: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-8 (10")

GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 18
DATE SAMPLED: 5/22/2019
TIME SAMPLED: 3:40 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM

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		5/22/2019	5/27/2019	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: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 19
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/22/2019
TIME SAMPLED: 4:23 PM
MI DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-9 (4') 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		5/22/2019	5/27/2019	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
PROJECT NO: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: 2019-SB-10 (3.5')
GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 20
DATE SAMPLED: 5/22/2019
TIME SAMPLED: 4:41 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
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		5/22/2019	5/27/2019	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: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 1
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/21/2019
TIME SAMPLED: 11:45 AM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
MI
SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: 2019-SB-1 (1')						
	CHLORIDE EPA 300.0	ND	26	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 2
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/21/2019
TIME SAMPLED: 12:15 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
MI
SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: 2019-SB-1 (5')						
	CHLORIDE EPA 300.0	ND	26	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 3
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/21/2019
TIME SAMPLED: 12:55 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
MI
SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: 2019-SB-2 (6')						
	CHLORIDE EPA 300.0	ND	26	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 4
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/21/2019
TIME SAMPLED: 1:03 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
MI
SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: 2019-SB-2 (7')							
CHLORIDE EPA 300.0		ND	26	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 5
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/21/2019
TIME SAMPLED: 1:42 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
MI
SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: 2019-SB-3 (7')						
	CHLORIDE EPA 300.0	ND	27	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 052319-1
 PROJECT NO: 2018100156.03 GTA SAMPLE NO: 6
 LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/21/2019
 TIME SAMPLED: 1:52 PM
 DATE RECEIVED: 5/23/2019
 TIME RECEIVED: 9:34 AM

 MI
 SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: 2019-SB-3 (10')	CHLORIDE EPA 300.0	ND	26	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 7
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/21/2019
TIME SAMPLED: 2:22 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
MI
SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: 2019-SB-4 (3')						
	CHLORIDE EPA 300.0	ND	27	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLED BY: MIKE RANKENS/GCES

GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 8
DATE SAMPLED: 5/21/2019
TIME SAMPLED: 2:35 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: 2019-SB-4 (6')						
	CHLORIDE EPA 300.0	ND	26	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 052319-1
 PROJECT NO: 2018100156.03 GTA SAMPLE NO: 9
 LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/21/2019
 TIME SAMPLED: 3:20 PM
 DATE RECEIVED: 5/23/2019
 TIME RECEIVED: 9:34 AM
 MI
 SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: 2019-SB-5 (4.5')							
CHLORIDE EPA 300.0		ND	28	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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



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: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLED BY: MIKE RANKENS/GCES

GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 10
DATE SAMPLED: 5/22/2019
TIME SAMPLED: 9:35 AM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: 2019-SB-6 (8.5')							
CHLORIDE EPA 300.0		ND	26	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

**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: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 11
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/22/2019
TIME SAMPLED: 12:30 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
MI
SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: 2019-SB-6 (12')						
	CHLORIDE EPA 300.0	ND	26	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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: 2018100156.03
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE
MI
SAMPLED BY: MIKE RANKENS/GCES

GTA PROJECT NO: 052319-1
GTA SAMPLE NO: 12
DATE SAMPLED: 5/22/2019
TIME SAMPLED: 1:00 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: 2019-SB-6 (15')						
	CHLORIDE EPA 300.0	ND	25	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 052319-1
 PROJECT NO: 2018100156.03 GTA SAMPLE NO: 13
 LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/22/2019
 TIME SAMPLED: 1:15 PM
 DATE RECEIVED: 5/23/2019
 TIME RECEIVED: 9:34 AM
 MI
 SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: 2019-SB-6 (17')	CHLORIDE EPA 300.0	ND	26	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 14
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/22/2019
TIME SAMPLED: 2:00 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
MI
SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: 2019-SB-7 (6.5')	CHLORIDE EPA 300.0	87	24	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 15
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/22/2019
TIME SAMPLED: 2:30 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
MI
SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: 2019-SB-7 (12')						
	CHLORIDE EPA 300.0	ND	27	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 16
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/22/2019
TIME SAMPLED: 3:22 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
MI
SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
SAMPLE ID: 2019-SB-8 (6')	CHLORIDE EPA 300.0	ND	26	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 17
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/22/2019
TIME SAMPLED: 3:31 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
MI
SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: 2019-SB-8 (7.5')						
	CHLORIDE EPA 300.0	ND	27	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

**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: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 18
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/22/2019
TIME SAMPLED: 3:40 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
MI
SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: 2019-SB-8 (10')						
	CHLORIDE EPA 300.0	ND	25	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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

**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: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 19
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/22/2019
TIME SAMPLED: 4:23 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
MI
SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: 2019-SB-9 (4')						
	CHLORIDE EPA 300.0	ND	26	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 052319-1
PROJECT NO: 2018100156.03 GTA SAMPLE NO: 20
LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE DATE SAMPLED: 5/22/2019
TIME SAMPLED: 4:41 PM
DATE RECEIVED: 5/23/2019
TIME RECEIVED: 9:34 AM
MI
SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: 2019-SB-10 (3.5')						
	CHLORIDE EPA 300.0	ND	26	mg/Kg (PPM)	KC/TR	5/28/2019	SOIL

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



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: 052319-1

NAME:

SAMPLED BY: MIKE RANKENS/GCES

PROJECT NO: 2018100156.03

DATE SAMPLED: 5/21/2019

TIME SAMPLED: 11:45 AM

SAMPLE MATRIX: SOIL

LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE

DATE RECEIVED: 5/23/2019

TIME RECEIVED: 9:34 AM

MI

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: 2019-SB-1 (1')	% MOISTURE EPA 3550C	6.3	0.050	% OF SAMPLE	AS	5/23/2019
SAMPLE ID: 2019-SB-1 (5')	% MOISTURE EPA 3550C	5.5	0.050	% OF SAMPLE	AS	5/23/2019
SAMPLE ID: 2019-SB-2 (6')	% MOISTURE EPA 3550C	4.8	0.050	% OF SAMPLE	AS	5/23/2019
SAMPLE ID: 2019-SB-2 (7')	% MOISTURE EPA 3550C	5.8	0.050	% OF SAMPLE	AS	5/23/2019
SAMPLE ID: 2019-SB-3 (7')	% MOISTURE EPA 3550C	8.4	0.050	% OF SAMPLE	AS	5/23/2019
SAMPLE ID: 2019-SB-3 (10')	% MOISTURE EPA 3550C	5.0	0.050	% OF SAMPLE	AS	5/23/2019
SAMPLE ID: 2019-SB-4 (3')	% MOISTURE EPA 3550C	8.0	0.050	% OF SAMPLE	AS	5/23/2019
SAMPLE ID: 2019-SB-4 (6')	% MOISTURE EPA 3550C	6.8	0.050	% OF SAMPLE	AS	5/23/2019
SAMPLE ID: 2019-SB-5 (4.5')	% MOISTURE EPA 3550C	13	0.050	% OF SAMPLE	AS	5/23/2019
SAMPLE ID: 2019-SB-6 (8.5')	% MOISTURE EPA 3550C	7.0	0.050	% OF SAMPLE	AS	5/23/2019
SAMPLE ID: 2019-SB-6 (12')	% MOISTURE EPA 3550C	6.5	0.050	% OF SAMPLE	AS	5/23/2019
SAMPLE ID: 2019-SB-6 (15')	% MOISTURE EPA 3550C	4.1	0.050	% OF SAMPLE	AS	5/23/2019
SAMPLE ID: 2019-SB-6 (17')	% MOISTURE EPA 3550C	4.0	0.050	% OF SAMPLE	AS	5/23/2019
SAMPLE ID: 2019-SB-7 (6.5')	% MOISTURE EPA 3550C	0.48	0.050	% OF SAMPLE	AS	5/23/2019

**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: 052319-1

NAME:

SAMPLED BY: MIKE RANKENS/GCES

PROJECT NO: 2018100156.03

DATE SAMPLED: 5/22/2019

TIME SAMPLED: 2:30 PM

LOCATION: MANISTEE 23 - BAHR FLOWLINE RELEASE

SAMPLE MATRIX: SOIL

DATE RECEIVED: 5/23/2019

TIME RECEIVED: 9:34 AM

MI

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: 2019-SB-7 (12')					
	% MOISTURE EPA 3550C	6.6	0.050	% OF SAMPLE	AS	5/23/2019
	SAMPLE ID: 2019-SB-8 (6')					
	% MOISTURE EPA 3550C	7.0	0.050	% OF SAMPLE	AS	5/23/2019
	SAMPLE ID: 2019-SB-8 (7.5')					
	% MOISTURE EPA 3550C	8.5	0.050	% OF SAMPLE	AS	5/23/2019
	SAMPLE ID: 2019-SB-8 (10')					
	% MOISTURE EPA 3550C	7.9	0.050	% OF SAMPLE	AS	5/23/2019
	SAMPLE ID: 2019-SB-9 (4')					
	% MOISTURE EPA 3550C	4.5	0.050	% OF SAMPLE	AS	5/23/2019
	SAMPLE ID: 2019-SB-10 (3.5')					
	% MOISTURE EPA 3550C	5.4	0.050	% OF SAMPLE	AS	5/23/2019

CHAIN OF CUSTODY

PROJECT NUMBER 2018100156.03	SITE NAME/ADDRESS Manistee 23-Bahr Flowline Release	COMPANY/NAME Lambda Energy Resources, LLC
SAMPLED BY Mike Rankens	COMPANY GCES	GTA PROJECT # 052319-1

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	2019-SB-1 (1')	5/21/19	1145	Soil	BTEX + 4 AND Chloride
2	2019-SB-1 (5')	5/21/19	1215	Soil	BTEX + 4 AND Chloride
3	2019-SB-2 (6')	5/21/19	1255	Soil	BTEX + 4 AND Chloride
4	2019-SB-2 (7')	5/21/19	1303	Soil	BTEX + 4 AND Chloride
5	2019-SB-3 (7')	5/21/19	1342	Soil	BTEX + 4 AND Chloride
6	2019-SB-3 (10')	5/21/19	1352	Soil	BTEX + 4 AND Chloride
7	2019-SB-4 (3')	5/21/19	1422	Soil	BTEX + 4 AND Chloride
8	2019-SB-4 (6')	5/21/19	1435	Soil	BTEX + 4 AND Chloride
9	2019-SB-5 (4.5')	5/21/19	1520	Soil	BTEX + 4 AND Chloride
10	2019-SB-6 (8.5')	5/22/19	0935	Soil	BTEX + 4 AND Chloride
11	2019-SB-6 (12')	5/22/19	1230	Soil	BTEX + 4 AND Chloride
12	2019-SB-6 (15')	5/22/19	1300	Soil	BTEX + 4 AND Chloride
13	2019-SB-6 (17')	5/22/19	1315	Soil	BTEX + 4 AND Chloride
14	2019-SB-7 (6.5')	5/22/19	1400	Soil	BTEX + 4 AND Chloride
15	2019-SB-7 (12')	5/22/19	1430	Soil	BTEX + 4 AND Chloride

BILL TO:

Lambda Energy Resources, LLC

REPORT TO:

GCES - Eric Vincke

re 0.60C on ice

RELEASED BY Mike Rankens	DATE/TIME 5/21/19 @ 1710	RECEIVED BY GCES Cold Storage	DATE/TIME 5/21/19 @ 1710
GCES Cold Storage	5/22/19 @ 0710	Mike Rankens	5/22/19 @ 0710
GCES Cold Storage	5/22/19 @ 1900	GCES Cold Storage	5/22/19 @ 1900
GCES Cold Storage	5/23/19 @ 0805	Mike Rankens	5/23/19 @ 0805
Mike Rankens	5/23/19 @ 0934	GCES Cold Storage	5/23/19 @ 0934

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

CHAIN OF CUSTODY

PROJECT NUMBER 2018100156.03	SITE NAME/ADDRESS Manistee 23 Bahn Flowline Release	COMPANY/NAME Lambda Energy Resources, LLC
SAMPLED BY Mike Rankens	COMPANY GCS	GTA PROJECT # 052319-1

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
16	2019-SB-8 (6')	5/22/19	1522	Soil	BTEX + 4 AND Chloride
17	2019-SB-8 (7.5')	5/22/19	1531	Soil	BTEX + 4 AND Chloride
18	2019-SB-8 (10')	5/22/19	1540	Soil	BTEX + 4 AND Chloride
19	2019-SB-9 (4')	5/22/19	1623	Soil	BTEX + 4 AND Chloride
20	2019-SB-10 (3.5')	5/22/19	1641	Soil	BTEX + 4 AND Chloride

BILL TO:

Lambda Energy Resources, LLC

REPORT TO:

GCS Eric Vincke

for OLC on it

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
Mike Rankens	5/22/19 @ 1900	GCS Cold Storage	5/22/19 @ 1900
GCS Cold Storage	5/23/19 @ 0805	Mike Rankens	5/23/19 @ 0805
Mike Rankens	5/23/19 @ 0934	Mike Rankens	5/23/19 9:34 am

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