

**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: 2018100166.03

GTA ProjNo: 050119-4

Site Addr: PCA 1-6

Sampled By: PETER KALLIOINEN/GCES

Date Rec: 5/1/2019

Time Rec: 10:20 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	GS-1R (7')	4/30/2019	10:31 AM	SOIL
2	GS-3R (7')	4/30/2019	11:45 AM	SOIL
3	SB-7 (6')	4/30/2019	10:47 AM	SOIL
4	SB-7 (9')	4/30/2019	10:57 AM	SOIL
5	SB-8 (7')	4/30/2019	12:01 PM	SOIL
6	SB-8 (12')	4/30/2019	12:34 PM	SOIL
7	SB-4R (7')	4/30/2019	12:50 PM	SOIL
8	SB-4R (12')	4/30/2019	1:00 PM	SOIL
9	SB-4R (16')	4/30/2019	1:11 PM	SOIL
10	SB-9 (8')	4/30/2019	1:28 PM	SOIL
11	SB-9 (12')	4/30/2019	1:38 PM	SOIL
12	SB-5R (14')	4/30/2019	2:05 PM	SOIL
13	SB-6R (8')	4/30/2019	2:17 PM	SOIL
14	SB-6R (14')	4/30/2019	2:28 PM	SOIL
15	SB-3R (14')	4/30/2019	11:28 AM	SOIL
16	SB-10 (12')	4/30/2019	3:03 PM	SOIL
17	SB-11 (11')	4/30/2019	3:28 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

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PH: 231-929-0905

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100166.03

LOCATION: PCA 1-6

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: GS-1R (7')

GTA PROJECT NO: 050119-4

GTA SAMPLE NO: 1

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 10:31 AM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLED BY: PETER KALLIOINEN/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	4/30/2019	5/2/2019	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: 2018100166.03

LOCATION: PCA 1-6

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: GS-3R (7')

GTA PROJECT NO: 050119-4

GTA SAMPLE NO: 2

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 11:45 AM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLED BY: PETER KALLIOINEN/GCES

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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	4/30/2019	5/2/2019	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.

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LOD = LIMIT OF DETECTION

COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100166.03

LOCATION: PCA 1-6

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-7 (6')

GTA PROJECT NO: 050119-4

GTA SAMPLE NO: 3

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 10:47 AM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLED BY: PETER KALLIOINEN/GCES

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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	4/30/2019	5/2/2019	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					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 050119-4

PROJECT NO: 2018100166.03

GTA SAMPLE NO: 4

LOCATION: PCA 1-6

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 10:57 AM

MI

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-7 (9')

SAMPLED BY: PETER KALLIOINEN/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	4/30/2019	5/2/2019	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.

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LOD = LIMIT OF DETECTION

COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100166.03

LOCATION: PCA 1-6

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-8 (7')

GTA PROJECT NO: 050119-4

GTA SAMPLE NO: 5

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 12:01 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLED BY: PETER KALLIOINEN/GCES

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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	4/30/2019	5/2/2019	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.

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LOD = LIMIT OF DETECTION

COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 050119-4

PROJECT NO: 2018100166.03

GTA SAMPLE NO: 6

LOCATION: PCA 1-6

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 12:34 PM

MI

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-8 (12')

SAMPLED BY: PETER KALLIOINEN/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	4/30/2019	5/2/2019	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.

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LOD = LIMIT OF DETECTION

COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 050119-4

PROJECT NO: 2018100166.03

GTA SAMPLE NO: 7

LOCATION: PCA 1-6

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 12:50 PM

MI

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-4R (7')

SAMPLED BY: PETER KALLIOINEN/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	4/30/2019	5/2/2019	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					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100166.03

LOCATION: PCA 1-6

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-4R (12')

GTA PROJECT NO: 050119-4

GTA SAMPLE NO: 8

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 1:00 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLED BY: PETER KALLIOINEN/GCES

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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	1,900	50	ug/Kg (PPB)	MR	4/30/2019	5/3/2019	EPA 5035A
Toluene	26,000	550					
Ethylbenzene	13,000	550					
Xylene(Total)	39,000	1,100					
1,2,4-Trimethylbenzene	21,000	550					
1,3,5-Trimethylbenzene	13,000	550					
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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100166.03

LOCATION: PCA 1-6

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-4R (16')

GTA PROJECT NO: 050119-4

GTA SAMPLE NO: 9

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 1:11 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLED BY: PETER KALLIOINEN/GCES

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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	300	50	ug/Kg (PPB)	MR	4/30/2019	5/3/2019	EPA 5035A
Toluene	730	50					
Ethylbenzene	510	50					
Xylene(Total)	1,200	150					
1,2,4-Trimethylbenzene	890	50					
1,3,5-Trimethylbenzene	430	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: 2018100166.03

LOCATION: PCA 1-6

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-9 (8')

GTA PROJECT NO: 050119-4

GTA SAMPLE NO: 10

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 1:28 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLED BY: PETER KALLIOINEN/GCES

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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	4/30/2019	5/2/2019	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.

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 050119-4

PROJECT NO: 2018100166.03

GTA SAMPLE NO: 11

LOCATION: PCA 1-6

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 1:38 PM

MI

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-9 (12')

SAMPLED BY: PETER KALLIOINEN/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	70	50	ug/Kg (PPB)	MR	4/30/2019	5/2/2019	EPA 5035A
Toluene	380	50					
Ethylbenzene	110	50					
Xylene(Total)	430	150					
1,2,4-Trimethylbenzene	200	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100166.03

LOCATION: PCA 1-6

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-5R (14')

GTA PROJECT NO: 050119-4

GTA SAMPLE NO: 12

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 2:05 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLED BY: PETER KALLIOINEN/GCES

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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		4/30/2019	5/2/2019	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.

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 050119-4

PROJECT NO: 2018100166.03

GTA SAMPLE NO: 13

LOCATION: PCA 1-6

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 2:17 PM

MI

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-6R (8')

SAMPLED BY: PETER KALLIOINEN/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	4/30/2019	5/2/2019	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.

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LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100166.03

LOCATION: PCA 1-6

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-6R (14')

GTA PROJECT NO: 050119-4

GTA SAMPLE NO: 14

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 2:28 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLED BY: PETER KALLIOINEN/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	4/30/2019	5/2/2019	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					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100166.03

LOCATION: PCA 1-6

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-3R (14')

GTA PROJECT NO: 050119-4

GTA SAMPLE NO: 15

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 11:28 AM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLED BY: PETER KALLIOINEN/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		4/30/2019	5/2/2019	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: 2018100166.03

LOCATION: PCA 1-6

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-10 (12')

GTA PROJECT NO: 050119-4

GTA SAMPLE NO: 16

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 3:03 PM

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLED BY: PETER KALLIOINEN/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	4/30/2019	5/2/2019	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

GTA PROJECT NO: 050119-4

PROJECT NO: 2018100166.03

GTA SAMPLE NO: 17

LOCATION: PCA 1-6

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 3:28 PM

MI

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 AM

SAMPLE MATRIX: SOIL

SAMPLE ID: SB-11 (11')

SAMPLED BY: PETER KALLIOINEN/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	4/30/2019	5/2/2019	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: 050119-4

NAME:

SAMPLED BY: PETER KALLIOINEN/GCES

PROJECT NO: 2018100166.03

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 10:31 AM

LOCATION: PCA 1-6

SAMPLE MATRIX: SOIL

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 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: GS-1R (7')	% MOISTURE EPA 3550C	11	0.050	% OF	AS	5/1/2019
SAMPLE ID: GS-3R (7')	% MOISTURE EPA 3550C	6.9	0.050	% OF	AS	5/1/2019
SAMPLE ID: SB-7 (6')	% MOISTURE EPA 3550C	6.9	0.050	% OF	AS	5/1/2019
SAMPLE ID: SB-7 (9')	% MOISTURE EPA 3550C	15	0.050	% OF	AS	5/1/2019
SAMPLE ID: SB-8 (7')	% MOISTURE EPA 3550C	6.6	0.050	% OF	AS	5/1/2019
SAMPLE ID: SB-8 (12')	% MOISTURE EPA 3550C	6.0	0.050	% OF	AS	5/1/2019
SAMPLE ID: SB-4R (7')	% MOISTURE EPA 3550C	8.4	0.050	% OF	AS	5/1/2019
SAMPLE ID: SB-4R (12')	% MOISTURE EPA 3550C	6.3	0.050	% OF	AS	5/1/2019
SAMPLE ID: SB-4R (16')	% MOISTURE EPA 3550C	22	0.050	% OF	AS	5/1/2019
SAMPLE ID: SB-9 (8')	% MOISTURE EPA 3550C	9.3	0.050	% OF	AS	5/1/2019
SAMPLE ID: SB-9 (12')	% MOISTURE EPA 3550C	8.0	0.050	% OF	AS	5/1/2019
SAMPLE ID: SB-5R (14')	% MOISTURE EPA 3550C	4.4	0.050	% OF	AS	5/1/2019
SAMPLE ID: SB-6R (8')	% MOISTURE EPA 3550C	10	0.050	% OF	AS	5/1/2019
SAMPLE ID: SB-6R (14')	% MOISTURE EPA 3550C	15	0.050	% OF	AS	5/1/2019



INDEPENDENT TESTING LAB

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PH: 231-929-0905

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 050119-4

NAME:

SAMPLED BY: PETER KALLIOINEN/GCES

PROJECT NO: 2018100166.03

DATE SAMPLED: 4/30/2019

TIME SAMPLED: 11:28 AM

LOCATION: PCA 1-6

SAMPLE MATRIX: SOIL

DATE RECEIVED: 5/1/2019

TIME RECEIVED: 10:20 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: SB-3R (14')	% MOISTURE EPA 3550C	7.0	0.050	% OF	AS	5/1/2019
SAMPLE ID: SB-10 (12')	% MOISTURE EPA 3550C	4.5	0.050	% OF	AS	5/1/2019
SAMPLE ID: SB-11 (11')	% MOISTURE EPA 3550C	20	0.050	% OF	AS	5/1/2019

Page 1 of 2

CHAIN OF CUSTODY

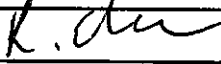
PROJECT NUMBER 2018100166.03	SITE NAME/ADDRESS PCA 1-6	COMPANY/NAME Lambda Energy Resources
SAMPLED BY Peter Kallioinen	COMPANY Gosling Czubak Eng.	GTA PROJECT # 050119-4

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	GS-1R(7')	4-30-19	10:31	So. 1	BTEX + 4
2	GS-3R(7')		11:45		
3	SB-7(6')		10:47		
4	SB-7(9')		10:57		
5	SB-8(7')		12:01		
6	SB-8(12')		12:31		
7	SB-4R(7')		12:50		
8	SB-4R(12')		1:00		
9	SB-4R(16')		1:11		
10	SB-9(8')		1:28		
11	SB-9(12')		1:38		
12	SB-5R(14')		2:05		
13	SB-6R(8')		2:17		
14	SB-6R(14')		2:28		
15	SB-3R(14')		11:28		

BILL TO: Lambda Energy Resources
Attn: Nick Summerland

REPORT TO: Same
cc: Jeff Simsa
at Gosling Czubak Eng.

RELEASED BY 	DATE/TIME 5-1-19 10:20	RECEIVED BY 	DATE/TIME 5/1/19 10:20
		-10°C on ice	
REQUESTED TAT ☐ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☒ 3 BUSINESS DAYS			

