

**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: NORWICH 4-116 FL

GTA ProjNo: 100919-5

Sampled By: NICK SUMMERLAND/LER
Date Rec: 10/9/2019
Time Rec: 1:20 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SW-N 5.5'	10/8/2019	4:10 PM	SOIL
2	SW-S 5.5'	10/8/2019	4:12 PM	SOIL
3	SW-E 5.5'	10/8/2019	4:14 PM	SOIL
4	SW-W 5.5'	10/8/2019	4:16 PM	SOIL
5	FL-1 11.5'	10/8/2019	4:18 PM	SOIL
6	FL-1 14'	10/8/2019	4:20 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 L Chase

Kirk L. Chase/Chemist
Grand Traverse Analytical
830 Robinwood Court
Traverse City, MI 49686
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kirk@gtanalytical.com

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 100919-5

PROJECT NO:

GTA SAMPLE NO: 1

LOCATION: NORWICH 4-116 FL

DATE SAMPLED: 10/8/2019

TIME SAMPLED: 4:10 PM

MI

DATE RECEIVED: 10/9/2019

TIME RECEIVED: 1:20 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-N 5.5'

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		10/8/2019	10/9/2019	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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 100919-5

PROJECT NO:

GTA SAMPLE NO: 2

LOCATION: NORWICH 4-116 FL

DATE SAMPLED: 10/8/2019

TIME SAMPLED: 4:12 PM

MI

DATE RECEIVED: 10/9/2019

TIME RECEIVED: 1:20 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-S 5.5'

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	10/8/2019	10/9/2019	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: 100919-5

PROJECT NO:

GTA SAMPLE NO: 3

LOCATION: NORWICH 4-116 FL

DATE SAMPLED: 10/8/2019

TIME SAMPLED: 4:14 PM

MI

DATE RECEIVED: 10/9/2019

TIME RECEIVED: 1:20 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-E 5.5'

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	10/8/2019	10/9/2019	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: 100919-5

PROJECT NO:

GTA SAMPLE NO: 4

LOCATION: NORWICH 4-116 FL

DATE SAMPLED: 10/8/2019

TIME SAMPLED: 4:16 PM

MI

DATE RECEIVED: 10/9/2019

TIME RECEIVED: 1:20 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-W 5.5'

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	10/8/2019	10/9/2019	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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LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 100919-5

PROJECT NO:

GTA SAMPLE NO: 5

LOCATION: NORWICH 4-116 FL

DATE SAMPLED: 10/8/2019

TIME SAMPLED: 4:18 PM

MI

DATE RECEIVED: 10/9/2019

TIME RECEIVED: 1:20 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: FL-1 11.5'

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	10/8/2019	10/9/2019	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

GTA PROJECT NO: 100919-5

PROJECT NO:

GTA SAMPLE NO: 6

LOCATION: NORWICH 4-116 FL

DATE SAMPLED: 10/8/2019

TIME SAMPLED: 4:20 AM

MI

DATE RECEIVED: 10/9/2019

TIME RECEIVED: 1:20 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: FL-1 14'

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	10/8/2019	10/9/2019	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
PROJECT NO:
LOCATION: NORWICH 4-116 FL
MI
SAMPLED BY: NICK SUMMERLAND/LER

GTA PROJECT NO: 100919-5
GTA SAMPLE NO: 1
DATE SAMPLED: 10/8/2019
TIME SAMPLED: 4:10 PM
DATE RECEIVED: 10/9/2019
TIME RECEIVED: 1:20 PM

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: SW-N 5.5' CHLORIDE EPA 300.0	ND	54	mg/Kg (PPM)	LV	10/15/2019	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:
LOCATION: NORWICH 4-116 FL
MI
SAMPLED BY: NICK SUMMERLAND/LER

GTA PROJECT NO: 100919-5
GTA SAMPLE NO: 2
DATE SAMPLED: 10/8/2019
TIME SAMPLED: 4:12 PM
DATE RECEIVED: 10/9/2019
TIME RECEIVED: 1:20 PM

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: SW-S 5.5'						
	CHLORIDE EPA 300.0	210	52	mg/Kg (PPM)	LV	10/15/2019	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:
LOCATION: NORWICH 4-116 FL
MI
SAMPLED BY: NICK SUMMERLAND/LER

GTA PROJECT NO: 100919-5
GTA SAMPLE NO: 3
DATE SAMPLED: 10/8/2019
TIME SAMPLED: 4:14 PM
DATE RECEIVED: 10/9/2019
TIME RECEIVED: 1:20 PM

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: SW-E 5.5'						
	CHLORIDE EPA 300.0	270	53	mg/Kg (PPM)	LV	10/15/2019	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:
LOCATION: NORWICH 4-116 FL
MI
SAMPLED BY: NICK SUMMERLAND/LER

GTA PROJECT NO: 100919-5
GTA SAMPLE NO: 4
DATE SAMPLED: 10/8/2019
TIME SAMPLED: 4:16 PM
DATE RECEIVED: 10/9/2019
TIME RECEIVED: 1:20 PM

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: SW-W 5.5' CHLORIDE EPA 300.0	140	51	mg/Kg (PPM)	LV	10/15/2019	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:
LOCATION: NORWICH 4-116 FL
MI
SAMPLED BY: NICK SUMMERLAND/LER

GTA PROJECT NO: 100919-5
GTA SAMPLE NO: 5
DATE SAMPLED: 10/8/2019
TIME SAMPLED: 4:18 PM
DATE RECEIVED: 10/9/2019
TIME RECEIVED: 1:20 PM

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: FL-1 11.5'						
	CHLORIDE EPA 300.0	790	53	mg/Kg (PPM)	LV	10/15/2019	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:
LOCATION: NORWICH 4-116 FL
MI
SAMPLED BY: NICK SUMMERLAND/LER

GTA PROJECT NO: 100919-5
GTA SAMPLE NO: 6
DATE SAMPLED: 10/8/2019
TIME SAMPLED: 4:20 AM
DATE RECEIVED: 10/9/2019
TIME RECEIVED: 1:20 PM

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: FL-1 14' CHLORIDE EPA 300.0	ND	50	mg/Kg (PPM)	LV	10/15/2019	SOIL

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

GTA PROJECT NO: 100919-5

NAME:

SAMPLED BY: NICK SUMMERLAND/LER

PROJECT NO:

DATE SAMPLED: 10/8/2019

TIME SAMPLED: 4:10 PM

LOCATION: NORWICH 4-116 FL

SAMPLE MATRIX: SOIL

DATE RECEIVED: 10/9/2019

TIME RECEIVED: 1:20 PM

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: SW-N 5.5'	% MOISTURE EPA 3550C	10	0.050	% OF SAMPLE	AS	10/9/2019
SAMPLE ID: SW-S 5.5'	% MOISTURE EPA 3550C	4.5	0.050	% OF SAMPLE	AS	10/9/2019
SAMPLE ID: SW-E 5.5'	% MOISTURE EPA 3550C	5.3	0.050	% OF SAMPLE	AS	10/9/2019
SAMPLE ID: SW-W 5.5'	% MOISTURE EPA 3550C	4.9	0.050	% OF SAMPLE	AS	10/9/2019
SAMPLE ID: FL-1 11.5'	% MOISTURE EPA 3550C	8.2	0.050	% OF SAMPLE	AS	10/9/2019
SAMPLE ID: FL-1 14'	% MOISTURE EPA 3550C	2.4	0.050	% OF SAMPLE	AS	10/9/2019

CHAIN OF CUSTODY

PROJECT NUMBER	SITE NAME/ADDRESS	COMPANY/NAME
	Norwich 4-116 FL	Lambda Energy Resources
SAMPLED BY	COMPANY	GTA PROJECT #
N Summerland	Lambda	100919-5

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	SW-N 5.5'	10-8-19	4:10P	Soil	BTEX +4 Chloride
2	SW-S 5.5'		4:12P		
3	SW-E 5.5'		4:14P		
4	SW-W 5.5'		4:16P		
5	FL-1 11.5'		4:18P		
6	FL-1 14'		4:20P		

BILL TO:

Lambda Energy

REPORT TO:

N Summerland

RELEASED BY

DATE/TIME

Nick LHL

10-9-19
1:20 PM

RECEIVED BY

DATE/TIME

[Signature] 10/9/19 1:20

REQUESTED TAT

☒ STANDARD

☐ 1 BUSINESS DAY

☐ 2 BUSINESS DAYS

☐ 3 BUSINESS DAYS