

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

[www.gtanalytical.com](http://www.gtanalytical.com)

Company: LAMBDA ENERGY RESOURCES, LLC

Name:

ClientProj: 20-116

GTA ProjNo: 021523-1

Site Addr: FREDRICK 2 SPILL RESPONSE

Sampled By: JP/OMPC

Date Rec: 2/15/2023

Time Rec: 8:05 AM

| Sample No. | Sample ID              | Date Sampled | Time Sampled | Sample Matrix |
|------------|------------------------|--------------|--------------|---------------|
| 1          | SS-1 (NE CORNER) 6'    | 2/14/2023    |              | SOIL          |
| 2          | SS-1 (NE CORNER) 8'    | 2/14/2023    |              | SOIL          |
| 3          | SS-2 (NW CORNER) 6'    | 2/14/2023    |              | SOIL          |
| 4          | SS-2 (NW CORNER) 8'    | 2/14/2023    |              | SOIL          |
| 5          | SS-3 (SW CORNER) 10'   | 2/14/2023    |              | SOIL          |
| 6          | SS-3 (SW CORNER) 12'   | 2/14/2023    |              | SOIL          |
| 7          | SS-4 (SE CORNER) 19.5' | 2/14/2023    |              | 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

PROJECT NO: 20-116

LOCATION: FREDRICK 2 SPILL RESPONSE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-1 (NE CORNER) 6'

GTA PROJECT NO: 021523-1

GTA SAMPLE NO: 1

DATE SAMPLED: 2/14/2023

TIME SAMPLED:

DATE RECEIVED: 2/15/2023

TIME RECEIVED: 8:05 AM

SAMPLED BY: JP/OMPC

\*\*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><br><u>Extracted</u> | <u>Date</u><br><u>Complete</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|----------------|----------------|---------------------------------|--------------------------------|--------------------|
| Benzene                | ND                   | 50         | ug/Kg (PPB) MR |                | 2/14/2023                       | 2/15/2023                      | 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 &lt; LOD

LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-116

LOCATION: FREDRICK 2 SPILL RESPONSE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-2 (NW CORNER) 6'

GTA PROJECT NO: 021523-1

GTA SAMPLE NO: 3

DATE SAMPLED: 2/14/2023

TIME SAMPLED:

DATE RECEIVED: 2/15/2023

TIME RECEIVED: 8:05 AM

SAMPLED BY: JP/OMPC

\*\*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><br><u>Extracted</u> | <u>Date</u><br><u>Complete</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|----------------|----------------|---------------------------------|--------------------------------|--------------------|
| Benzene                | ND                   | 50         | ug/Kg (PPB) MR |                | 2/14/2023                       | 2/15/2023                      | 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 &lt; LOD

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-116

LOCATION: FREDRICK 2 SPILL RESPONSE

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SS-3 (SW CORNER) 10'

GTA PROJECT NO: 021523-1

GTA SAMPLE NO: 5

DATE SAMPLED: 2/14/2023

TIME SAMPLED:

DATE RECEIVED: 2/15/2023

TIME RECEIVED: 8:05 AM

SAMPLED BY: JP/OMPC

\*\*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><br><u>Extracted</u> | <u>Date</u><br><u>Complete</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|--------------|----------------|---------------------------------|--------------------------------|--------------------|
| Benzene                | ND                   | 50         | ug/Kg (PPB)  | MR             | 2/14/2023                       | 2/15/2023                      | 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  
PROJECT NO: 20-116  
LOCATION: FREDRICK 2 SPILL RESPONSE  
MI  
SAMPLED BY: JP/OMPC

GTA PROJECT NO: 021523-1  
GTA SAMPLE NO: 1  
DATE SAMPLED: 2/14/2023  
TIME SAMPLED:  
DATE RECEIVED: 2/15/2023  
TIME RECEIVED: 8:05 AM

### SAMPLE ANALYSIS

| No:                            | Analysis | Concentration | LOD | Units       | Analyst | Date Completed | Sample Matrix |
|--------------------------------|----------|---------------|-----|-------------|---------|----------------|---------------|
| SAMPLE ID: SS-1 (NE CORNER) 6' |          |               |     |             |         |                |               |
| CHLORIDE EPA 300.0             |          | 540           | 100 | mg/Kg (PPM) | KC/TR   | 2/15/2023      | SOIL          |

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



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COMPANY: LAMBDA ENERGY RESOURCES, LLC  
PROJECT NO: 20-116  
LOCATION: FREDRICK 2 SPILL RESPONSE  
MI  
SAMPLED BY: JP/OMPC

GTA PROJECT NO: 021523-1  
GTA SAMPLE NO: 2  
DATE SAMPLED: 2/14/2023  
TIME SAMPLED:  
DATE RECEIVED: 2/15/2023  
TIME RECEIVED: 8:05 AM

### SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u>                | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|------------|--------------------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
|            | SAMPLE ID: SS-1 (NE CORNER) 8' |                      |            |              |                |                       |                      |
|            | CHLORIDE EPA 300.0             | 310                  | 100        | mg/Kg (PPM)  | KC/TR          | 2/15/2023             | SOIL                 |

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC  
PROJECT NO: 20-116  
LOCATION: FREDRICK 2 SPILL RESPONSE  
MI  
SAMPLED BY: JP/OMPC

GTA PROJECT NO: 021523-1  
GTA SAMPLE NO: 3  
DATE SAMPLED: 2/14/2023  
TIME SAMPLED:  
DATE RECEIVED: 2/15/2023  
TIME RECEIVED: 8:05 AM

**SAMPLE ANALYSIS**

| <u>No:</u> | <u>Analysis</u>                | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|------------|--------------------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
|            | SAMPLE ID: SS-2 (NW CORNER) 6' |                      |            |              |                |                       |                      |
|            | CHLORIDE EPA 300.0             | ND                   | 100        | mg/Kg (PPM)  | KC/TR          | 2/15/2023             | SOIL                 |

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC  
PROJECT NO: 20-116  
LOCATION: FREDRICK 2 SPILL RESPONSE  
MI  
SAMPLED BY: JP/OMPC

GTA PROJECT NO: 021523-1  
GTA SAMPLE NO: 4  
DATE SAMPLED: 2/14/2023  
TIME SAMPLED:  
DATE RECEIVED: 2/15/2023  
TIME RECEIVED: 8:05 AM

**SAMPLE ANALYSIS**

| <u>No:</u> | <u>Analysis</u>                | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|------------|--------------------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
|            | SAMPLE ID: SS-2 (NW CORNER) 8' |                      |            |              |                |                       |                      |
|            | CHLORIDE EPA 300.0             | ND                   | 100        | mg/Kg (PPM)  | KC/TR          | 2/15/2023             | SOIL                 |

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC  
PROJECT NO: 20-116  
LOCATION: FREDRICK 2 SPILL RESPONSE  
MI  
SAMPLED BY: JP/OMPC

GTA PROJECT NO: 021523-1  
GTA SAMPLE NO: 5  
DATE SAMPLED: 2/14/2023  
TIME SAMPLED:  
DATE RECEIVED: 2/15/2023  
TIME RECEIVED: 8:05 AM

**SAMPLE ANALYSIS**

| <u>No:</u> | <u>Analysis</u>                 | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|------------|---------------------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
|            | SAMPLE ID: SS-3 (SW CORNER) 10' |                      |            |              |                |                       |                      |
|            | CHLORIDE EPA 300.0              | ND                   | 100        | mg/Kg (PPM)  | KC/TR          | 2/15/2023             | SOIL                 |

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC  
PROJECT NO: 20-116  
LOCATION: FREDRICK 2 SPILL RESPONSE  
MI  
SAMPLED BY: JP/OMPC

GTA PROJECT NO: 021523-1  
GTA SAMPLE NO: 6  
DATE SAMPLED: 2/14/2023  
TIME SAMPLED:  
DATE RECEIVED: 2/15/2023  
TIME RECEIVED: 8:05 AM

**SAMPLE ANALYSIS**

| <u>No:</u> | <u>Analysis</u>                 | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|------------|---------------------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
|            | SAMPLE ID: SS-3 (SW CORNER) 12' |                      |            |              |                |                       |                      |
|            | CHLORIDE EPA 300.0              | ND                   | 110        | mg/Kg (PPM)  | KC/TR          | 2/15/2023             | SOIL                 |

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COMPANY: LAMBDA ENERGY RESOURCES, LLC  
PROJECT NO: 20-116  
LOCATION: FREDRICK 2 SPILL RESPONSE  
MI  
SAMPLED BY: JP/OMPC

GTA PROJECT NO: 021523-1  
GTA SAMPLE NO: 7  
DATE SAMPLED: 2/14/2023  
TIME SAMPLED:  
DATE RECEIVED: 2/15/2023  
TIME RECEIVED: 8:05 AM

**SAMPLE ANALYSIS**

| <u>No:</u> | <u>Analysis</u>                   | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|------------|-----------------------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
|            | SAMPLE ID: SS-4 (SE CORNER) 19.5' |                      |            |              |                |                       |                      |
|            | CHLORIDE EPA 300.0                | 1,900                | 100        | mg/Kg (PPM)  | KC/TR          | 2/15/2023             | SOIL                 |

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021523-  
SAMPLED BY: JP/OMPCNAME:  
PROJECT NO: 20-116

DATE SAMPLED: 2/14/2023

LOCATION: FREDRICK 2 SPILL RESPONSE

SAMPLE MATRIX: SOIL

DATE RECEIVED: 2/15/2023  
TIME RECEIVED: 8:05 AM

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: SS-1 (NE CORNER) 6'<br>% MOISTURE EPA 3550C    | 3.3                  | 0.10       | % OF SAMPLE  | TR             | 2/15/2023             |
| SAMPLE ID: SS-1 (NE CORNER) 8'<br>% MOISTURE EPA 3550C    | 3.3                  | 0.10       | % OF SAMPLE  | TR             | 2/15/2023             |
| SAMPLE ID: SS-2 (NW CORNER) 6'<br>% MOISTURE EPA 3550C    | 5.6                  | 0.10       | % OF SAMPLE  | TR             | 2/15/2023             |
| SAMPLE ID: SS-2 (NW CORNER) 8'<br>% MOISTURE EPA 3550C    | 4.8                  | 0.10       | % OF SAMPLE  | TR             | 2/15/2023             |
| SAMPLE ID: SS-3 (SW CORNER) 10'<br>% MOISTURE EPA 3550C   | 6.4                  | 0.10       | % OF SAMPLE  | TR             | 2/15/2023             |
| SAMPLE ID: SS-3 (SW CORNER) 12'<br>% MOISTURE EPA 3550C   | 6.5                  | 0.10       | % OF SAMPLE  | TR             | 2/15/2023             |
| SAMPLE ID: SS-4 (SE CORNER) 19.5'<br>% MOISTURE EPA 3550C | 3.8                  | 0.10       | % OF SAMPLE  | TR             | 2/15/2023             |

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|                              |                                                         |                           |
|------------------------------|---------------------------------------------------------|---------------------------|
| PROJECT NUMBER<br>20-116     | SITE NAME/ADDRESS<br>Lambda / Prebrick 2 spill response | COMPANY/NAME<br>Lambda    |
| SAMPLED BY<br>Jacob Potinsky | COMPANY<br>Otwell Mowbray P.C.                          | GTA PROJECT #<br>021523-1 |

[illegible]

d.barton@otwellmawby.com

DATE/TIME

2-15-23 8:05am

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