

**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: 20-127

GTA ProjNo: 100422-11

Site Addr: CHARLTON 12

Sampled By: JONATHAN YOUNGSON/OMPC

Date Rec: 10/4/2022

Time Rec: 4:00 PM

| Sample No. | Sample ID   | Date Sampled | Time Sampled | Sample Matrix |
|------------|-------------|--------------|--------------|---------------|
| 1          | HA-1R @ 6'  | 10/3/2022    | 11:20 AM     | SOIL          |
| 2          | HA-1R @ 8'  | 10/3/2022    | 12:10 PM     | SOIL          |
| 3          | HA-1R @ 9'  | 10/3/2022    | 1:00 PM      | SOIL          |
| 4          | HA-5RR @ 2' | 10/3/2022    | 2:50 PM      | SOIL          |
| 5          | HA-5RR @ 4' | 10/3/2022    | 4:27 PM      | SOIL          |
| 6          | HA-5RR @ 6' | 10/3/2022    | 5:00 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 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](mailto: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: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-1R @ 6'

GTA PROJECT NO: 100422-11

GTA SAMPLE NO: 1

DATE SAMPLED: 10/3/2022

TIME SAMPLED: 11:20 AM

DATE RECEIVED: 10/4/2022

TIME RECEIVED: 4:00 PM

SAMPLED BY: JONATHAN YOUNGSON/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>Completed</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|--------------|----------------|---------------------------------|---------------------------------|--------------------|
| Benzene                | 130                  | 50         | ug/Kg (PPB)  | MR             | 10/3/2022                       | 10/5/2022                       | EPA 5035A          |
| Toluene                | 720                  | 50         |              |                |                                 |                                 |                    |
| Ethylbenzene           | 420                  | 50         |              |                |                                 |                                 |                    |
| Xylene(Total)          | 2,300                | 150        |              |                |                                 |                                 |                    |
| 1,2,4-Trimethylbenzene | 3,400                | 50         |              |                |                                 |                                 |                    |
| 1,3,5-Trimethylbenzene | 1,400                | 50         |              |                |                                 |                                 |                    |
| Naphthalene            | ND                   | 250        |              |                |                                 |                                 |                    |
| 2-Methylnaphthalene    | 540                  | 250        |              |                |                                 |                                 |                    |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT &lt; 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: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-1R @ 8'

GTA PROJECT NO: 100422-11

GTA SAMPLE NO: 2

DATE SAMPLED: 10/3/2022

TIME SAMPLED: 12:10 PM

DATE RECEIVED: 10/4/2022

TIME RECEIVED: 4:00 PM

SAMPLED BY: JONATHAN YOUNGSON/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>Completed</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|--------------|----------------|---------------------------------|---------------------------------|--------------------|
| Benzene                | 240                  | 50         | ug/Kg (PPB)  | MR             | 10/3/2022                       | 10/6/2022                       | EPA 5035A          |
| Toluene                | 790                  | 50         |              |                |                                 |                                 |                    |
| Ethylbenzene           | 330                  | 50         |              |                |                                 |                                 |                    |
| Xylene(Total)          | 2,200                | 150        |              |                |                                 |                                 |                    |
| 1,2,4-Trimethylbenzene | 1,600                | 50         |              |                |                                 |                                 |                    |
| 1,3,5-Trimethylbenzene | 680                  | 50         |              |                |                                 |                                 |                    |
| Naphthalene            | ND                   | 250        |              |                |                                 |                                 |                    |
| 2-Methylnaphthalene    | 320                  | 250        |              |                |                                 |                                 |                    |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

ND = NOT DETECTED, RESULT &lt; 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: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-1R @ 9'

GTA PROJECT NO: 100422-11

GTA SAMPLE NO: 3

DATE SAMPLED: 10/3/2022

TIME SAMPLED: 1:00 PM

DATE RECEIVED: 10/4/2022

TIME RECEIVED: 4:00 PM

SAMPLED BY: JONATHAN YOUNGSON/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>Completed</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|--------------|----------------|---------------------------------|---------------------------------|--------------------|
| Benzene                | 350                  | 50         | ug/Kg (PPB)  | MR             | 10/3/2022                       | 10/6/2022                       | EPA 5035A          |
| Toluene                | 780                  | 50         |              |                |                                 |                                 |                    |
| Ethylbenzene           | 280                  | 50         |              |                |                                 |                                 |                    |
| Xylene(Total)          | 1,600                | 150        |              |                |                                 |                                 |                    |
| 1,2,4-Trimethylbenzene | 860                  | 50         |              |                |                                 |                                 |                    |
| 1,3,5-Trimethylbenzene | 350                  | 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

**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: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-5RR @ 2'

GTA PROJECT NO: 100422-11

GTA SAMPLE NO: 4

DATE SAMPLED: 10/3/2022

TIME SAMPLED: 2:50 PM

DATE RECEIVED: 10/4/2022

TIME RECEIVED: 4:00 PM

SAMPLED BY: JONATHAN YOUNGSON/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>Completed</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|----------------|----------------|---------------------------------|---------------------------------|--------------------|
| Benzene                | ND                   | 50         | ug/Kg (PPB) MR |                | 10/3/2022                       | 10/6/2022                       | 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

**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: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-5RR @ 4'

GTA PROJECT NO: 100422-11

GTA SAMPLE NO: 5

DATE SAMPLED: 10/3/2022

TIME SAMPLED: 4:27 PM

DATE RECEIVED: 10/4/2022

TIME RECEIVED: 4:00 PM

SAMPLED BY: JONATHAN YOUNGSON/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>Completed</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|----------------|----------------|---------------------------------|---------------------------------|--------------------|
| Benzene                | ND                   | 50         | ug/Kg (PPB) MR |                | 10/3/2022                       | 10/6/2022                       | 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

**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: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-5RR @ 6'

GTA PROJECT NO: 100422-11

GTA SAMPLE NO: 6

DATE SAMPLED: 10/3/2022

TIME SAMPLED: 5:00 PM

DATE RECEIVED: 10/4/2022

TIME RECEIVED: 4:00 PM

SAMPLED BY: JONATHAN YOUNGSON/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>Completed</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|--------------|----------------|---------------------------------|---------------------------------|--------------------|
| Benzene                | ND                   | 50         | ug/Kg (PPB)  | MR             | 10/3/2022                       | 10/6/2022                       | 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



## 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

GTA PROJECT NO: 100422-11

PROJECT NO: 20-127

GTA SAMPLE NO: 1

LOCATION: CHARLTON 12

DATE SAMPLED: 10/3/2022

TIME SAMPLED: 11:20 AM

DATE RECEIVED: 10/4/2022

TIME RECEIVED: 4:00 PM

MI

SAMPLED BY: JONATHAN YOUNGSON/OMPC

### SAMPLE ANALYSIS

#### No: Analysis

SAMPLE ID: HA-1R @ 6'

CHLORIDE EPA 300.0

#### Concentration

200

#### LOD

110

#### Units

mg/Kg (PPM)

#### Analyst

KC/AS

#### Date Completed

10/11/2022

#### Sample Matrix

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: 20-127

LOCATION: CHARLTON 12

GTA PROJECT NO: 100422-11

GTA SAMPLE NO: 2

DATE SAMPLED: 10/3/2022

TIME SAMPLED: 12:10 PM

DATE RECEIVED: 10/4/2022

TIME RECEIVED: 4:00 PM

MI

SAMPLED BY: JONATHAN YOUNGSON/OMPC

**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: HA-1R @ 8'

CHLORIDE EPA 300.0

**Concentration**

160

**LOD**

120

**Units**

mg/Kg (PPM)

**Analyst**

KC/AS

**Date Completed**

10/11/2022

**Sample Matrix**

SOIL

ND = NOT DETECTED, RESULT &lt; 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: 20-127  
LOCATION: CHARLTON 12  
MI  
SAMPLED BY: JONATHAN YOUNGSON/OMPC

GTA PROJECT NO: 100422-11  
GTA SAMPLE NO: 3  
DATE SAMPLED: 10/3/2022  
TIME SAMPLED: 1:00 PM  
DATE RECEIVED: 10/4/2022  
TIME RECEIVED: 4:00 PM

**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: HA-1R @ 9'<br>CHLORIDE EPA 300.0 | 140                  | 100        | mg/Kg (PPM)  | KC/AS          | 10/11/2022            | 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

NAME:

PROJECT NO: 20-127

GTA PROJECT NO: 100422-11

SAMPLED BY: JONATHAN YOUNGSON/OMPC

DATE SAMPLED: 10/3/2022

LOCATION: CHARLTON 12

SAMPLE SOIL

DATE RECEIVED: 10/4/2022

TIME RECEIVED: 4:00 PM

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: HA-1R @ 6'  | % MOISTURE EPA 3550C | 16                   | 0.050      | % OF SAMPLE  | AS             | 10/4/2022             |
| SAMPLE ID: HA-1R @ 8'  | % MOISTURE EPA 3550C | 17                   | 0.050      | % OF SAMPLE  | AS             | 10/4/2022             |
| SAMPLE ID: HA-1R @ 9'  | % MOISTURE EPA 3550C | 17                   | 0.050      | % OF SAMPLE  | AS             | 10/4/2022             |
| SAMPLE ID: HA-5RR @ 2' | % MOISTURE EPA 3550C | 13                   | 0.050      | % OF SAMPLE  | AS             | 10/4/2022             |
| SAMPLE ID: HA-5RR @ 4' | % MOISTURE EPA 3550C | 15                   | 0.050      | % OF SAMPLE  | AS             | 10/4/2022             |
| SAMPLE ID: HA-5RR @ 6' | % MOISTURE EPA 3550C | 13                   | 0.050      | % OF SAMPLE  | AS             | 10/4/2022             |

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

**CHAIN OF CUSTODY**

|                                        |                                         |                                   |
|----------------------------------------|-----------------------------------------|-----------------------------------|
| PROJECT NUMBER<br><b>20-127</b>        | SITE NAME/ADDRESS<br><b>Charlton 12</b> | COMPANY/NAME<br><b>Lambert</b>    |
| SAMPLED BY<br><b>Jonathan Youngson</b> | COMPANY<br><b>OMPC</b>                  | GTA PROJECT #<br><b>100422-11</b> |

**SAMPLE INFORMATION**

| # | SAMPLE ID  | DATE SAMPLED | TIME | MATRIX | ANALYSIS        |
|---|------------|--------------|------|--------|-----------------|
| 1 | HA-1R @ 6' | 10/3/22      | 1120 | Soil   | HIPs, Chlorides |
| 2 | HA-1R @ 8' | ↓            | 1210 | ↓      | Hold Chlorides  |
| 3 | HA-1R @ 9' |              | 1300 |        |                 |
| 4 | HA-5R @ 2' |              | 1450 |        |                 |
| 5 | HA-5R @ 4' |              | 1627 |        |                 |
| 6 | HA-5R @ 6' |              | 1700 |        |                 |
|   |            |              |      |        |                 |
|   |            |              |      |        |                 |
|   |            |              |      |        |                 |
|   |            |              |      |        |                 |
|   |            |              |      |        |                 |
|   |            |              |      |        |                 |
|   |            |              |      |        |                 |
|   |            |              |      |        |                 |
|   |            |              |      |        |                 |
|   |            |              |      |        |                 |
|   |            |              |      |        |                 |
|   |            |              |      |        |                 |
|   |            |              |      |        |                 |
|   |            |              |      |        |                 |
|   |            |              |      |        |                 |

|          |                                               |                                                                      |                                 |
|----------|-----------------------------------------------|----------------------------------------------------------------------|---------------------------------|
| BILL TO: | TempRec: <input type="checkbox"/> <b>30°C</b> | On Ice? <input type="checkbox"/> <input checked="" type="checkbox"/> | REPORT TO:<br><b>Dan Barton</b> |
|----------|-----------------------------------------------|----------------------------------------------------------------------|---------------------------------|

|                                   |                                  |                             |                                  |
|-----------------------------------|----------------------------------|-----------------------------|----------------------------------|
| RELEASED BY<br><b>J. Youngson</b> | DATE/TIME<br><b>10-4-22 1600</b> | RECEIVED BY<br><b>K. Ch</b> | DATE/TIME<br><b>10/4/22 1600</b> |
|                                   |                                  |                             |                                  |

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