



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: 2018100134.01
GTA ProjNo: 080919-10

Site Addr: UNION 28 CPF

Sampled By: MARK STOVER/GCES
Date Rec: 8/9/2019
Time Rec: 1:50 PM

| Sample No. | Sample ID | Date Sampled | Time Sampled | Sample Matrix |
|------------|-----------|--------------|--------------|---------------|
| 1 | MW-4S | 8/8/2019 | | WATER |
| 2 | MW-8 | 8/8/2019 | | WATER |
| 3 | MW-9 | 8/8/2019 | | WATER |
| 4 | MW-12S | 8/8/2019 | | WATER |
| 5 | MW-14 | 8/8/2019 | | WATER |
| 6 | MW-15S | 8/8/2019 | | WATER |
| 7 | MW-15D | 8/8/2019 | | WATER |
| 8 | MW-19 | 8/8/2019 | | WATER |
| 9 | MW-4M | 8/8/2019 | | WATER |
| 10 | MW-6 | 8/9/2019 | | WATER |
| 11 | MW-5 | 8/9/2019 | | WATER |
| 12 | MW-16S | 8/9/2019 | | WATER |
| 13 | MW-16M | 8/9/2019 | | WATER |
| 14 | MW-17 | 8/9/2019 | | WATER |
| 15 | MW-18 | 8/9/2019 | | WATER |
| 16 | MW-20M | 8/9/2019 | | WATER |
| 17 | MW-20D | 8/9/2019 | | WATER |

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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Fx: 231-929-0894
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kirk@gtanalytical.com



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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100134.01
LOCATION: UNION 28 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-4S
GTA PROJECT NO: 080919-10
GTA SAMPLE NO: 1
DATE SAMPLED: 8/8/2019
TIME SAMPLED:
DATE RECEIVED: 8/9/2019
TIME RECEIVED: 1:50 PM
SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Extracted</u> | <u>Date Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene | ND | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | |
| Xylene(Total) | ND | 3.0 | | | | | |

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: 2018100134.01
LOCATION: UNION 28 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-8
GTA PROJECT NO: 080919-10
GTA SAMPLE NO: 2
DATE SAMPLED: 8/8/2019
TIME SAMPLED:
DATE RECEIVED: 8/9/2019
TIME RECEIVED: 1:50 PM
SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Extracted</u> | <u>Date Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|--------------------|
| Benzene | ND | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | |
| Xylene(Total) | ND | 3.0 | | | | | |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100134.01
LOCATION: UNION 28 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-9
GTA PROJECT NO: 080919-10
GTA SAMPLE NO: 3
DATE SAMPLED: 8/8/2019
TIME SAMPLED:
DATE RECEIVED: 8/9/2019
TIME RECEIVED: 1:50 PM
SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Extracted</u> | <u>Date Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene | ND | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | |
| Xylene(Total) | ND | 3.0 | | | | | |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100134.01
LOCATION: UNION 28 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-12S

GTA PROJECT NO: 080919-10
GTA SAMPLE NO: 4
DATE SAMPLED: 8/8/2019
TIME SAMPLED:
DATE RECEIVED: 8/9/2019
TIME RECEIVED: 1:50 PM
SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Extracted</u> | <u>Date Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene | ND | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | |
| Xylene(Total) | ND | 3.0 | | | | | |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100134.01
 LOCATION: UNION 28 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-14

GTA PROJECT NO: 080919-10
 GTA SAMPLE NO: 5
 DATE SAMPLED: 8/8/2019
 TIME SAMPLED:
 DATE RECEIVED: 8/9/2019
 TIME RECEIVED: 1:50 PM

SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Extracted</u> | <u>Date Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|--------------------|
| Benzene | ND | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | |
| Xylene(Total) | ND | 3.0 | | | | | |

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 LOD = LIMIT OF DETECTION



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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100134.01
 LOCATION: UNION 28 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-15S

GTA PROJECT NO: 080919-10
 GTA SAMPLE NO: 6
 DATE SAMPLED: 8/8/2019
 TIME SAMPLED:
 DATE RECEIVED: 8/9/2019
 TIME RECEIVED: 1:50 PM

SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Extracted</u> | <u>Date Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|--------------------|
| Benzene | ND | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | |
| Xylene(Total) | ND | 3.0 | | | | | |

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100134.01
 LOCATION: UNION 28 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-4M

GTA PROJECT NO: 080919-10
 GTA SAMPLE NO: 9
 DATE SAMPLED: 8/8/2019
 TIME SAMPLED:
 DATE RECEIVED: 8/9/2019
 TIME RECEIVED: 1:50 PM

SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Extracted</u> | <u>Date Complete</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|--------------------|
| Benzene | ND | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | |
| Xylene(Total) | ND | 3.0 | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | | | | |
| Naphthalene | ND | 5.0 | | | | | |
| 2-Methylnaphthalene | ND | 5.0 | | | | | |

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100134.01
 LOCATION: UNION 28 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-6

GTA PROJECT NO: 080919-10
 GTA SAMPLE NO: 10
 DATE SAMPLED: 8/9/2019
 TIME SAMPLED:
 DATE RECEIVED: 8/9/2019
 TIME RECEIVED: 1:50 PM

SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Extracted</u> | <u>Date Complete</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene | ND | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | 2.3 | 1.0 | | | | | |
| Xylene(Total) | 13 | 3.0 | | | | | |
| 1,2,4-Trimethylbenzene | 3.9 | 1.0 | | | | | |
| 1,3,5-Trimethylbenzene | 2.3 | 1.0 | | | | | |
| Naphthalene | ND | 5.0 | | | | | |
| 2-Methylnaphthalene | ND | 5.0 | | | | | |

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100134.01
 LOCATION: UNION 28 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-5

GTA PROJECT NO: 080919-10
 GTA SAMPLE NO: 11
 DATE SAMPLED: 8/9/2019
 TIME SAMPLED:
 DATE RECEIVED: 8/9/2019
 TIME RECEIVED: 1:50 PM

SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Extracted</u> | <u>Date Complete</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene | ND | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | |
| Xylene(Total) | ND | 3.0 | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | | | | |
| Naphthalene | ND | 5.0 | | | | | |
| 2-Methylnaphthalene | ND | 5.0 | | | | | |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100134.01
 LOCATION: UNION 28 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-16S

GTA PROJECT NO: 080919-10
 GTA SAMPLE NO: 12
 DATE SAMPLED: 8/9/2019
 TIME SAMPLED:
 DATE RECEIVED: 8/9/2019
 TIME RECEIVED: 1:50 PM

SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Extracted</u> | <u>Date Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene | ND | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | 2.3 | 1.0 | | | | | |
| Xylene(Total) | 11 | 3.0 | | | | | |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100134.01
LOCATION: UNION 28 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-16M
GTA PROJECT NO: 080919-10
GTA SAMPLE NO: 13
DATE SAMPLED: 8/9/2019
TIME SAMPLED:
DATE RECEIVED: 8/9/2019
TIME RECEIVED: 1:50 PM
SAMPLED BY: MARK STOVER/GCES

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 | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | |
| Xylene(Total) | ND | 3.0 | | | | | |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100134.01
 LOCATION: UNION 28 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-17

GTA PROJECT NO: 080919-10
 GTA SAMPLE NO: 14
 DATE SAMPLED: 8/9/2019
 TIME SAMPLED:
 DATE RECEIVED: 8/9/2019
 TIME RECEIVED: 1:50 PM

SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Extracted</u> | <u>Date Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|--------------------|
| Benzene | ND | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | |
| Xylene(Total) | ND | 3.0 | | | | | |

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100134.01
 LOCATION: UNION 28 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-18

GTA PROJECT NO: 080919-10
 GTA SAMPLE NO: 15
 DATE SAMPLED: 8/9/2019
 TIME SAMPLED:
 DATE RECEIVED: 8/9/2019
 TIME RECEIVED: 1:50 PM

SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Extracted</u> | <u>Date Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene | ND | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | |
| Xylene(Total) | ND | 3.0 | | | | | |

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: 2018100134.01
LOCATION: UNION 28 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-20M

GTA PROJECT NO: 080919-10
GTA SAMPLE NO: 16
DATE SAMPLED: 8/9/2019
TIME SAMPLED:
DATE RECEIVED: 8/9/2019
TIME RECEIVED: 1:50 PM
SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Extracted</u> | <u>Date Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene | ND | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | |
| Xylene(Total) | ND | 3.0 | | | | | |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100134.01
 LOCATION: UNION 28 CPF
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-20D

GTA PROJECT NO: 080919-10
 GTA SAMPLE NO: 17
 DATE SAMPLED: 8/9/2019
 TIME SAMPLED:
 DATE RECEIVED: 8/9/2019
 TIME RECEIVED: 1:50 PM

SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Extracted</u> | <u>Date Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene | ND | 1.0 | ug/L (PPB) | MR | | 8/12/2019 | EPA 5030B |
| Toluene | ND | 1.0 | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | |
| Xylene(Total) | ND | 3.0 | | | | | |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
 ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION

CHAIN OF CUSTODY

| | | |
|--|--|--------------------------------------|
| PROJECT NUMBER <i>2018100134.01</i> | SITE NAME/ADDRESS <i>UNION 28 CPF</i> | COMPANY/NAME <i>LAMBDA ENERGY</i> |
| SAMPLED BY <i>MARK STOVER</i> | COMPANY <i>G.C.E.S.</i> | GTA PROJECT # <i>080919-10</i> |

SAMPLE INFORMATION

| # | SAMPLE ID | DATE SAMPLED | TIME | MATRIX | ANALYSIS | |
|----|---------------|---------------|------|-----------|-------------|-------------|
| 1 | <i>MW-4S</i> | <i>8-8-19</i> | | <i>GW</i> | <i>BTEX</i> | |
| 2 | <i>MW-8</i> | ↓ | | ↓ | ↓ | |
| 3 | <i>MW-9</i> | | | | | |
| 4 | <i>MW-12S</i> | | | | | |
| 5 | <i>MW-14</i> | | | | | |
| 6 | <i>MW-15S</i> | | | | | |
| 7 | <i>MW-15d</i> | | | | | |
| 8 | <i>MW-19</i> | | | | | |
| 9 | <i>MW-4M</i> | | | | | |
| 10 | <i>MW-6</i> | <i>8-9-19</i> | | | ↓ | |
| 11 | <i>MW-5</i> | ↓ | | | | |
| 12 | <i>MW-16S</i> | | | | | <i>BTEX</i> |
| 13 | <i>MW-16M</i> | | | | | |
| 14 | <i>MW-17</i> | | | | | |
| 15 | <i>MW-18</i> | | | | | |

BILL TO: *LAMBDA ENERGY*

REPORT TO:

~~BRUCE SW~~
DON CONWAY

RELEASED BY *[Signature]* **DATE/TIME** *8-9-19*

RECEIVED BY *[Signature]* **DATE/TIME** *8/9/19 1:50p*

REC 4.00

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

