

**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: 2018100106.01

GTA ProjNo: 020720-6

Site Addr: HAYES 22 CPF

Sampled By: JOSHUA GERRIE/GCES

Date Rec: 2/7/2020

Time Rec: 3:30 PM

| Sample No. | Sample ID | Date Sampled | Time Sampled | Sample Matrix |
|------------|-----------|--------------|--------------|---------------|
| 1          | MW-201    | 2/7/2020     | 1:06 PM      | WATER         |
| 2          | MW-202    | 2/7/2020     | 11:54 AM     | WATER         |
| 3          | MW-203    | 2/7/2020     | 11:11 AM     | WATER         |
| 4          | MW-204    | 2/7/2020     | 10:05 AM     | WATER         |
| 5          | MW-205    | 2/7/2020     | 12:30 PM     | WATER         |
| 6          | MW-206    | 2/7/2020     | 10:40 AM     | WATER         |
| 7          | MW-207S   | 2/7/2020     | 1:39 PM      | WATER         |
| 8          | MW-207D   | 2/7/2020     | 2:05 PM      | 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 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)

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COMPANY: LAMBDA ENERGY RESOURCES, LLC  
PROJECT NO: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-201

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 1  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 1:06 PM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLED BY: JOSHUA GERRIE/GCES

**EPA 8260B VOLATILE ORGANICS**

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date<br/>Extracted</u> | <u>Date<br/>Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene         | ND                   | 1.0        | ug/L (PPB)   | MR             |                           | 2/8/2020                 | 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: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-202

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 2  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 11:54 AM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLED BY: JOSHUA GERRIE/GCES

**EPA 8260B VOLATILE ORGANICS**

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date<br/>Extracted</u> | <u>Date<br/>Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene         | ND                   | 1.0        | ug/L (PPB)   | MR             |                           | 2/8/2020                 | 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: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-203

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 3  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 11:11 AM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLED BY: JOSHUA GERRIE/GCES

**EPA 8260B VOLATILE ORGANICS**

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date<br/>Extracted</u> | <u>Date<br/>Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene         | ND                   | 1.0        | ug/L (PPB)   | MR             |                           | 2/8/2020                 | 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: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-204

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 4  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 10:05 AM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLED BY: JOSHUA GERRIE/GCES

**EPA 8260B VOLATILE ORGANICS**

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date<br/>Extracted</u> | <u>Date<br/>Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene         | ND                   | 1.0        | ug/L (PPB)   | MR             |                           | 2/8/2020                 | 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: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-205

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 5  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 12:30 PM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLED BY: JOSHUA GERRIE/GCES

**EPA 8260B VOLATILE ORGANICS**

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date<br/>Extracted</u> | <u>Date<br/>Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene         | ND                   | 1.0        | ug/L (PPB)   | MR             |                           | 2/8/2020                 | 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: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-206

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 6  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 10:40 AM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLED BY: JOSHUA GERRIE/GCES

**EPA 8260B VOLATILE ORGANICS**

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date<br/>Extracted</u> | <u>Date<br/>Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene         | ND                   | 1.0        | ug/L (PPB)   | MR             |                           | 2/8/2020                 | 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: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-207S

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 7  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 1:39 PM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLED BY: JOSHUA GERRIE/GCES

**EPA 8260B VOLATILE ORGANICS**

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date<br/>Extracted</u> | <u>Date<br/>Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene         | ND                   | 1.0        | ug/L (PPB)   | MR             |                           | 2/8/2020                 | 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: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-207D

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 8  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 2:05 PM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLED BY: JOSHUA GERRIE/GCES

**EPA 8260B VOLATILE ORGANICS**

| <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date<br/>Extracted</u> | <u>Date<br/>Complete</u> | <u>Prep Method</u> |
|-----------------|----------------------|------------|--------------|----------------|---------------------------|--------------------------|--------------------|
| Benzene         | ND                   | 1.0        | ug/L (PPB)   | MR             |                           | 2/8/2020                 | EPA 5030B          |
| Toluene         | ND                   | 1.0        |              |                |                           |                          |                    |
| Ethylbenzene    | ND                   | 1.0        |              |                |                           |                          |                    |
| Xylene(Total)   | ND                   | 3.0        |              |                |                           |                          |                    |

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PROJECT NO: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLED BY: JOSHUA GERRIE/GCES  
SAMPLE ID: MW-201

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 1  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 1:06 PM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLE MATRIX: WATER

**METALS**

| <u>Analysis</u>          | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Digestion Method</u> |
|--------------------------|----------------------|------------|--------------|----------------|-----------------------|-------------------------|
| ARSENIC DISS EPA 200.8   | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| IRON DISS EPA 200.8      | 0.029                | 0.010      | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| MANGANESE DISS EPA 200.8 | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |

ND = NOT DETECTED, RESULT &lt; LOD

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DISS = DISSOLVED



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PROJECT NO: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLED BY: JOSHUA GERRIE/GCES  
SAMPLE ID: MW-202

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 2  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 11:54 AM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLE MATRIX: WATER

### METALS

| <u>Analysis</u>          | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Digestion Method</u> |
|--------------------------|----------------------|------------|--------------|----------------|-----------------------|-------------------------|
| ARSENIC DISS EPA 200.8   | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| IRON DISS EPA 200.8      | ND                   | 0.010      | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| MANGANESE DISS EPA 200.8 | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |

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PROJECT NO: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLED BY: JOSHUA GERRIE/GCES  
SAMPLE ID: MW-203

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 3  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 11:11 AM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLE MATRIX: WATER

### METALS

| <u>Analysis</u>          | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Digestion Method</u> |
|--------------------------|----------------------|------------|--------------|----------------|-----------------------|-------------------------|
| ARSENIC DISS EPA 200.8   | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| IRON DISS EPA 200.8      | ND                   | 0.010      | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| MANGANESE DISS EPA 200.8 | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |

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PROJECT NO: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLED BY: JOSHUA GERRIE/GCES  
SAMPLE ID: MW-204

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 4  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 10:05 AM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLE MATRIX: WATER

**METALS**

| <u>Analysis</u>          | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Digestion Method</u> |
|--------------------------|----------------------|------------|--------------|----------------|-----------------------|-------------------------|
| ARSENIC DISS EPA 200.8   | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| IRON DISS EPA 200.8      | ND                   | 0.010      | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| MANGANESE DISS EPA 200.8 | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |

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LOCATION: HAYES 22 CPF  
MI  
SAMPLED BY: JOSHUA GERRIE/GCES  
SAMPLE ID: MW-205

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 5  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 12:30 PM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLE MATRIX: WATER

**METALS**

| <u>Analysis</u>          | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Digestion Method</u> |
|--------------------------|----------------------|------------|--------------|----------------|-----------------------|-------------------------|
| ARSENIC DISS EPA 200.8   | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| IRON DISS EPA 200.8      | 0.010                | 0.010      | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| MANGANESE DISS EPA 200.8 | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |

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PROJECT NO: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLED BY: JOSHUA GERRIE/GCES  
SAMPLE ID: MW-206

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 6  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 10:40 AM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLE MATRIX: WATER

**METALS**

| <u>Analysis</u>          | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Digestion Method</u> |
|--------------------------|----------------------|------------|--------------|----------------|-----------------------|-------------------------|
| ARSENIC DISS EPA 200.8   | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| IRON DISS EPA 200.8      | ND                   | 0.010      | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| MANGANESE DISS EPA 200.8 | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |

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PROJECT NO: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLED BY: JOSHUA GERRIE/GCES  
SAMPLE ID: MW-207S

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 7  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 1:39 PM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLE MATRIX: WATER

**METALS**

| <u>Analysis</u>          | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Digestion Method</u> |
|--------------------------|----------------------|------------|--------------|----------------|-----------------------|-------------------------|
| ARSENIC DISS EPA 200.8   | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| IRON DISS EPA 200.8      | ND                   | 0.010      | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| MANGANESE DISS EPA 200.8 | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC  
PROJECT NO: 2018100106.01  
LOCATION: HAYES 22 CPF  
MI  
SAMPLED BY: JOSHUA GERRIE/GCES  
SAMPLE ID: MW-207D

GTA PROJECT NO: 020720-6  
GTA SAMPLE NO: 8  
DATE SAMPLED: 2/7/2020  
TIME SAMPLED: 2:05 PM  
DATE RECEIVED: 2/7/2020  
TIME RECEIVED: 3:30 PM  
SAMPLE MATRIX: WATER

### METALS

| <u>Analysis</u>          | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Digestion Method</u> |
|--------------------------|----------------------|------------|--------------|----------------|-----------------------|-------------------------|
| ARSENIC DISS EPA 200.8   | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| IRON DISS EPA 200.8      | 0.037                | 0.010      | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |
| MANGANESE DISS EPA 200.8 | ND                   | 0.0010     | mg/L (PPM)   | MR             | 2/8/2020              | EPA 3005A               |

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

