

**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: MACKINAC ENVIRONMENTAL  
Name:  
ClientProj: M19-3117  
GTA ProjNo: 062321-1

Site Addr: BMIC - SD

Sampled By: SDM/MET

Date Rec: 6/23/2021

Time Rec: 11:45 AM

| Sample No. | Sample ID    | Date Sampled | Time Sampled | Sample Matrix |
|------------|--------------|--------------|--------------|---------------|
| 1          | MW-1R 2.5 FT | 6/18/2021    |              | SOIL          |
| 2          | MW-6 2 FT    | 6/18/2021    |              | SOIL          |
| 3          | MW-6 3.5 FT  | 6/18/2021    |              | SOIL          |
| 4          | MW-7 2.5 FT  | 6/18/2021    |              | SOIL          |
| 5          | MW-1R        | 6/21/2021    |              | WATER         |
| 6          | MW-2         | 6/21/2021    |              | WATER         |
| 7          | MW-5         | 6/21/2021    |              | WATER         |
| 8          | MW-6         | 6/21/2021    |              | WATER         |
| 9          | MW-7         | 6/21/2021    |              | 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  
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COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3117  
LOCATION: BMIC - SD

MI

SAMPLE MATRIX: SOIL  
SAMPLE ID: MW-1R 2.5FT

GTA PROJECT NO: 062321-1  
GTA SAMPLE NO: 1

DATE SAMPLED: 6/18/2021  
TIME SAMPLED:  
DATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AM

SAMPLED BY: SDM/MET

\*\*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 |                | 6/18/2021                       | 6/25/2021                      | EPA 5035A          |
| Toluene                | ND                   | 50         |                |                |                                 |                                |                    |
| Ethylbenzene           | ND                   | 50         |                |                |                                 |                                |                    |
| Xylene(Total)          | ND                   | 150        |                |                |                                 |                                |                    |
| 1,2,4-Trimethylbenzene | ND                   | 50         |                |                |                                 |                                |                    |
| 1,3,5-Trimethylbenzene | ND                   | 50         |                |                |                                 |                                |                    |
| Methyl-t-Butyl Ether   | ND                   | 250        |                |                |                                 |                                |                    |
| 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

COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3117  
LOCATION: BMIC - SD

MI

SAMPLE MATRIX: SOIL  
SAMPLE ID: MW-6 2 FT

GTA PROJECT NO: 062321-1  
GTA SAMPLE NO: 2

DATE SAMPLED: 6/18/2021  
TIME SAMPLED:  
DATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AM

SAMPLED BY: SDM/MET

\*\*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 |                | 6/18/2021                       | 6/25/2021                      | EPA 5035A          |
| Toluene                | ND                   | 50         |                |                |                                 |                                |                    |
| Ethylbenzene           | ND                   | 50         |                |                |                                 |                                |                    |
| Xylene(Total)          | ND                   | 150        |                |                |                                 |                                |                    |
| 1,2,4-Trimethylbenzene | ND                   | 50         |                |                |                                 |                                |                    |
| 1,3,5-Trimethylbenzene | ND                   | 50         |                |                |                                 |                                |                    |
| Methyl-t-Butyl Ether   | ND                   | 250        |                |                |                                 |                                |                    |
| Naphthalene            | ND                   | 250        |                |                |                                 |                                |                    |
| 2-Methylnaphthalene    | ND                   | 250        |                |                |                                 |                                |                    |

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LOD = LIMIT OF DETECTION

COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3117  
LOCATION: BMIC - SD

MI

SAMPLE MATRIX: SOIL  
SAMPLE ID: MW-6 3.5 FT

GTA PROJECT NO: 062321-1  
GTA SAMPLE NO: 3

DATE SAMPLED: 6/18/2021  
TIME SAMPLED:  
DATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AM

SAMPLED BY: SDM/MET

\*\*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                   | 56         | ug/Kg (PPB) MR |                | 6/18/2021                       | 6/25/2021                      | EPA 5035A          |
| Toluene                | ND                   | 56         |                |                |                                 |                                |                    |
| Ethylbenzene           | ND                   | 56         |                |                |                                 |                                |                    |
| Xylene(Total)          | 190                  | 170        |                |                |                                 |                                |                    |
| 1,2,4-Trimethylbenzene | 180                  | 56         |                |                |                                 |                                |                    |
| 1,3,5-Trimethylbenzene | 1,800                | 56         |                |                |                                 |                                |                    |
| Methyl-t-Butyl Ether   | ND                   | 280        |                |                |                                 |                                |                    |
| Naphthalene            | ND                   | 280        |                |                |                                 |                                |                    |
| 2-Methylnaphthalene    | 1,400                | 280        |                |                |                                 |                                |                    |

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

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COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3117  
LOCATION: BMIC - SD

MI

SAMPLE MATRIX: SOIL  
SAMPLE ID: MW-7 2.5 FT

GTA PROJECT NO: 062321-1  
GTA SAMPLE NO: 4

DATE SAMPLED: 6/18/2021  
TIME SAMPLED:  
DATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AM

SAMPLED BY: SDM/MET

\*\*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             | 6/18/2021                       | 6/25/2021                      | EPA 5035A          |
| Toluene                | ND                   | 50         |              |                |                                 |                                |                    |
| Ethylbenzene           | ND                   | 50         |              |                |                                 |                                |                    |
| Xylene(Total)          | ND                   | 150        |              |                |                                 |                                |                    |
| 1,2,4-Trimethylbenzene | ND                   | 50         |              |                |                                 |                                |                    |
| 1,3,5-Trimethylbenzene | ND                   | 50         |              |                |                                 |                                |                    |
| Methyl-t-Butyl Ether   | ND                   | 250        |              |                |                                 |                                |                    |
| Naphthalene            | ND                   | 250        |              |                |                                 |                                |                    |
| 2-Methylnaphthalene    | ND                   | 250        |              |                |                                 |                                |                    |

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

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COMPANY: MACKINAC ENVIRONMENTAL  
PROJECT NO: M19-3117  
LOCATION: BMIC - SD  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-1R

GTA PROJECT NO: 062321-1  
GTA SAMPLE NO: 5  
DATE SAMPLED: 6/21/2021  
TIME SAMPLED:  
DATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AM  
SAMPLED BY: SDM/MET

**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             |                           | 6/24/2021                | EPA 5030B          |
| Toluene                | ND                   | 1.0        |              |                |                           |                          |                    |
| Ethylbenzene           | 1.4                  | 1.0        |              |                |                           |                          |                    |
| Xylene(Total)          | 8.9                  | 3.0        |              |                |                           |                          |                    |
| 1,2,4-Trimethylbenzene | 20                   | 1.0        |              |                |                           |                          |                    |
| 1,3,5-Trimethylbenzene | 5.1                  | 1.0        |              |                |                           |                          |                    |
| Methyl-t-Butyl Ether   | ND                   | 5.0        |              |                |                           |                          |                    |
| Naphthalene            | 10                   | 5.0        |              |                |                           |                          |                    |
| 2-Methylnaphthalene    | 9.3                  | 5.0        |              |                |                           |                          |                    |

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

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LOD = LIMIT OF DETECTION

COMPANY: MACKINAC ENVIRONMENTAL  
PROJECT NO: M19-3117  
LOCATION: BMIC - SD  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-2

GTA PROJECT NO: 062321-1  
GTA SAMPLE NO: 6  
DATE SAMPLED: 6/21/2021  
TIME SAMPLED:  
DATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AM  
SAMPLED BY: SDM/MET

**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             |                           | 6/24/2021                | EPA 5030B          |
| Toluene                | ND                   | 1.0        |              |                |                           |                          |                    |
| Ethylbenzene           | 4.3                  | 1.0        |              |                |                           |                          |                    |
| Xylene(Total)          | 29                   | 3.0        |              |                |                           |                          |                    |
| 1,2,4-Trimethylbenzene | 46                   | 1.0        |              |                |                           |                          |                    |
| 1,3,5-Trimethylbenzene | 11                   | 1.0        |              |                |                           |                          |                    |
| Methyl-t-Butyl Ether   | ND                   | 5.0        |              |                |                           |                          |                    |
| Naphthalene            | 20                   | 5.0        |              |                |                           |                          |                    |
| 2-Methylnaphthalene    | 8.7                  | 5.0        |              |                |                           |                          |                    |

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

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LOD = LIMIT OF DETECTION

|                |                        |                 |           |
|----------------|------------------------|-----------------|-----------|
| COMPANY:       | MACKINAC ENVIRONMENTAL | GTA PROJECT NO: | 062321-1  |
| PROJECT NO:    | M19-3117               | GTA SAMPLE NO:  | 7         |
| LOCATION:      | BMIC - SD              | DATE SAMPLED:   | 6/21/2021 |
|                |                        | TIME SAMPLED:   |           |
|                | MI                     | DATE RECEIVED:  | 6/23/2021 |
|                |                        | TIME RECEIVED:  | 11:45 AM  |
| SAMPLE MATRIX: | WATER                  |                 |           |
| SAMPLE ID:     | MW-5                   | SAMPLED BY:     | SDM/MET   |

**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             |                           | 6/24/2021                | 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        |              |                |                           |                          |                    |
| Methyl-t-Butyl Ether   | ND                   | 5.0        |              |                |                           |                          |                    |
| Naphthalene            | ND                   | 5.0        |              |                |                           |                          |                    |
| 2-Methylnaphthalene    | ND                   | 5.0        |              |                |                           |                          |                    |

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

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LOD = LIMIT OF DETECTION

|                |                        |                 |           |
|----------------|------------------------|-----------------|-----------|
| COMPANY:       | MACKINAC ENVIRONMENTAL | GTA PROJECT NO: | 062321-1  |
| PROJECT NO:    | M19-3117               | GTA SAMPLE NO:  | 8         |
| LOCATION:      | BMIC - SD              | DATE SAMPLED:   | 6/21/2021 |
|                |                        | TIME SAMPLED:   |           |
|                | MI                     | DATE RECEIVED:  | 6/23/2021 |
|                |                        | TIME RECEIVED:  | 11:45 AM  |
| SAMPLE MATRIX: | WATER                  |                 |           |
| SAMPLE ID:     | MW-6                   | SAMPLED BY:     | SDM/MET   |

**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             |                           | 6/24/2021                | EPA 5030B          |
| Toluene                | ND                   | 1.0        |              |                |                           |                          |                    |
| Ethylbenzene           | ND                   | 1.0        |              |                |                           |                          |                    |
| Xylene(Total)          | 11                   | 3.0        |              |                |                           |                          |                    |
| 1,2,4-Trimethylbenzene | 32                   | 1.0        |              |                |                           |                          |                    |
| 1,3,5-Trimethylbenzene | 26                   | 1.0        |              |                |                           |                          |                    |
| Methyl-t-Butyl Ether   | ND                   | 5.0        |              |                |                           |                          |                    |
| Naphthalene            | 19                   | 5.0        |              |                |                           |                          |                    |
| 2-Methylnaphthalene    | 46                   | 5.0        |              |                |                           |                          |                    |

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

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LOD = LIMIT OF DETECTION

|                |                        |                 |           |
|----------------|------------------------|-----------------|-----------|
| COMPANY:       | MACKINAC ENVIRONMENTAL | GTA PROJECT NO: | 062321-1  |
| PROJECT NO:    | M19-3117               | GTA SAMPLE NO:  | 9         |
| LOCATION:      | BMIC - SD              | DATE SAMPLED:   | 6/21/2021 |
|                |                        | TIME SAMPLED:   |           |
|                | MI                     | DATE RECEIVED:  | 6/23/2021 |
|                |                        | TIME RECEIVED:  | 11:45 AM  |
| SAMPLE MATRIX: | WATER                  |                 |           |
| SAMPLE ID:     | MW-7                   | SAMPLED BY:     | SDM/MET   |

#### 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             |                           | 6/24/2021                | 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        |              |                |                           |                          |                    |
| Methyl-t-Butyl Ether   | ND                   | 5.0        |              |                |                           |                          |                    |
| Naphthalene            | ND                   | 5.0        |              |                |                           |                          |                    |
| 2-Methylnaphthalene    | ND                   | 5.0        |              |                |                           |                          |                    |

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

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**INDEPENDENT TESTING LAB**

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PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3117  
LOCATION: BMIC - SD

GTA PROJECT NO: 062321-1

GTA SAMPLE NO: 1

DATE SAMPLED: 6/18/2021  
TIME SAMPLED:SAMPLED BY: MI  
SDM/METDATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AMSAMPLE MATRIX: SOIL  
SAMPLE ID: MW-1R 2.5FT**PNA EPA 8270D (SIM)**

| <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> |
|----------------------|----------------------|------------|--------------|----------------|---------------------------------|--------------------------------|--------------------|
| Acenaphthene         | ND                   | 330        | ug/Kg (PPB)  | KC/TR          | 6/28/2021                       | 6/28/2021                      | EPA 3550B          |
| Acenaphthylene       | ND                   | 330        |              |                |                                 |                                |                    |
| Anthracene           | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(a)anthracene   | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(b)fluoranthene | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(k)fluoranthene | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(a)pyrene       | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(ghi)perylene   | ND                   | 330        |              |                |                                 |                                |                    |
| 2-Chloronaphthalene  | ND                   | 330        |              |                |                                 |                                |                    |
| Chrysene             | ND                   | 330        |              |                |                                 |                                |                    |
| Dibenz(ah)anthracene | ND                   | 330        |              |                |                                 |                                |                    |
| Fluoranthene         | ND                   | 330        |              |                |                                 |                                |                    |
| Fluorene             | ND                   | 330        |              |                |                                 |                                |                    |
| Indeno(123-cd)pyrene | ND                   | 330        |              |                |                                 |                                |                    |
| Phenanthrene         | ND                   | 330        |              |                |                                 |                                |                    |
| Pyrene               | ND                   | 330        |              |                |                                 |                                |                    |

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

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COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3117  
LOCATION: BMIC - SD

SAMPLED BY: MI  
SDM/MET

SAMPLE MATRIX: SOIL  
SAMPLE ID: MW-6 2 FT

GTA PROJECT NO: 062321-1  
GTA SAMPLE NO: 2

DATE SAMPLED: 6/18/2021  
TIME SAMPLED:

DATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AM

**PNA EPA 8270D (SIM)**

| <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> |
|----------------------|----------------------|------------|--------------|----------------|---------------------------------|--------------------------------|--------------------|
| Acenaphthene         | ND                   | 330        | ug/Kg (PPB)  | KC/TR          | 6/28/2021                       | 6/28/2021                      | EPA 3550B          |
| Acenaphthylene       | ND                   | 330        |              |                |                                 |                                |                    |
| Anthracene           | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(a)anthracene   | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(b)fluoranthene | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(k)fluoranthene | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(a)pyrene       | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(ghi)perylene   | ND                   | 330        |              |                |                                 |                                |                    |
| 2-Chloronaphthalene  | ND                   | 330        |              |                |                                 |                                |                    |
| Chrysene             | ND                   | 330        |              |                |                                 |                                |                    |
| Dibenz(ah)anthracene | ND                   | 330        |              |                |                                 |                                |                    |
| Fluoranthene         | ND                   | 330        |              |                |                                 |                                |                    |
| Fluorene             | ND                   | 330        |              |                |                                 |                                |                    |
| Indeno(123-cd)pyrene | ND                   | 330        |              |                |                                 |                                |                    |
| Phenanthrene         | ND                   | 330        |              |                |                                 |                                |                    |
| Pyrene               | ND                   | 330        |              |                |                                 |                                |                    |

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LOD = LIMIT OF DETECTION.

COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3117  
LOCATION: BMIC - SD

SAMPLED BY: MI  
SDM/MET

SAMPLE MATRIX: SOIL  
SAMPLE ID: MW-6 3.5 FT

GTA PROJECT NO: 062321-1  
GTA SAMPLE NO: 3

DATE SAMPLED: 6/18/2021  
TIME SAMPLED:

DATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AM

**PNA EPA 8270D (SIM)**

| <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> |
|----------------------|----------------------|------------|--------------|----------------|---------------------------------|--------------------------------|--------------------|
| Acenaphthene         | ND                   | 330        | ug/Kg (PPB)  | KC/TR          | 6/28/2021                       | 6/29/2021                      | EPA 3550B          |
| Acenaphthylene       | ND                   | 330        |              |                |                                 |                                |                    |
| Anthracene           | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(a)anthracene   | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(b)fluoranthene | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(k)fluoranthene | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(a)pyrene       | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(ghi)perylene   | ND                   | 330        |              |                |                                 |                                |                    |
| 2-Chloronaphthalene  | ND                   | 330        |              |                |                                 |                                |                    |
| Chrysene             | ND                   | 330        |              |                |                                 |                                |                    |
| Dibenz(ah)anthracene | ND                   | 330        |              |                |                                 |                                |                    |
| Fluoranthene         | 3,400                | 330        |              |                |                                 |                                |                    |
| Fluorene             | 680                  | 330        |              |                |                                 |                                |                    |
| Indeno(123-cd)pyrene | ND                   | 330        |              |                |                                 |                                |                    |
| Phenanthrene         | 2,100                | 330        |              |                |                                 |                                |                    |
| Pyrene               | 12,000               | 330        |              |                |                                 |                                |                    |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
ND = NOT DETECTED, RESULT IS <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: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3117  
LOCATION: BMIC - SD

GTA PROJECT NO: 062321-1

GTA SAMPLE NO: 4

DATE SAMPLED: 6/18/2021  
TIME SAMPLED:SAMPLED BY: MI  
SDM/METDATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AMSAMPLE MATRIX: SOIL  
SAMPLE ID: MW-7 2.5 FT**PNA EPA 8270D (SIM)**

| <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> |
|----------------------|----------------------|------------|--------------|----------------|---------------------------------|--------------------------------|--------------------|
| Acenaphthene         | ND                   | 330        | ug/Kg (PPB)  | KC/TR          | 6/28/2021                       | 6/28/2021                      | EPA 3550B          |
| Acenaphthylene       | ND                   | 330        |              |                |                                 |                                |                    |
| Anthracene           | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(a)anthracene   | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(b)fluoranthene | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(k)fluoranthene | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(a)pyrene       | ND                   | 330        |              |                |                                 |                                |                    |
| Benzo(ghi)perylene   | ND                   | 330        |              |                |                                 |                                |                    |
| 2-Chloronaphthalene  | ND                   | 330        |              |                |                                 |                                |                    |
| Chrysene             | ND                   | 330        |              |                |                                 |                                |                    |
| Dibenz(ah)anthracene | ND                   | 330        |              |                |                                 |                                |                    |
| Fluoranthene         | ND                   | 330        |              |                |                                 |                                |                    |
| Fluorene             | ND                   | 330        |              |                |                                 |                                |                    |
| Indeno(123-cd)pyrene | ND                   | 330        |              |                |                                 |                                |                    |
| Phenanthrene         | ND                   | 330        |              |                |                                 |                                |                    |
| Pyrene               | ND                   | 330        |              |                |                                 |                                |                    |

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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: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3117  
LOCATION: BMIC - SD

GTA PROJECT NO: 062321-1

GTA SAMPLE NO: 5

DATE SAMPLED: 6/21/2021  
TIME SAMPLED:SAMPLED BY: MI  
SDM/METDATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AMSAMPLE MATRIX: WATER  
SAMPLE ID: MW-1R**PNA EPA 8270D (SIM)**

| <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> |
|----------------------|----------------------|------------|--------------|----------------|---------------------------------|--------------------------------|--------------------|
| Acenaphthene         | ND                   | 5.0        | ug/L (PPB)   | KC/TR          | 6/28/2021                       | 6/28/2021                      | EPA 3511           |
| Acenaphthylene       | ND                   | 5.0        |              |                |                                 |                                |                    |
| Anthracene           | ND                   | 5.0        |              |                |                                 |                                |                    |
| Benzo(a)anthracene   | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(b)fluoranthene | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(k)fluoranthene | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(a)pyrene       | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(ghi)perylene   | ND                   | 2.0        |              |                |                                 |                                |                    |
| 2-Chloronaphthalene  | ND                   | 5.0        |              |                |                                 |                                |                    |
| Chrysene             | ND                   | 1.0        |              |                |                                 |                                |                    |
| Dibenz(ah)anthracene | ND                   | 2.0        |              |                |                                 |                                |                    |
| Fluoranthene         | ND                   | 1.0        |              |                |                                 |                                |                    |
| Fluorene             | ND                   | 5.0        |              |                |                                 |                                |                    |
| Indeno(123-cd)pyrene | ND                   | 2.0        |              |                |                                 |                                |                    |
| Phenanthrene         | ND                   | 2.0        |              |                |                                 |                                |                    |
| Pyrene               | ND                   | 5.0        |              |                |                                 |                                |                    |

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

ND = NOT DETECTED, RESULT IS &lt;LOD.

LOD = LIMIT OF DETECTION.

COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3117  
LOCATION: BMIC - SD

SAMPLED BY: MI  
SDM/MET

SAMPLE MATRIX: WATER  
SAMPLE ID: MW-2

GTA PROJECT NO: 062321-1  
GTA SAMPLE NO: 6

DATE SAMPLED: 6/21/2021  
TIME SAMPLED:

DATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AM

**PNA EPA 8270D (SIM)**

| <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> |
|----------------------|----------------------|------------|--------------|----------------|---------------------------------|--------------------------------|--------------------|
| Acenaphthene         | ND                   | 5.0        | ug/L (PPB)   | KC/TR          | 6/28/2021                       | 6/28/2021                      | EPA 3511           |
| Acenaphthylene       | ND                   | 5.0        |              |                |                                 |                                |                    |
| Anthracene           | ND                   | 5.0        |              |                |                                 |                                |                    |
| Benzo(a)anthracene   | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(b)fluoranthene | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(k)fluoranthene | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(a)pyrene       | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(ghi)perylene   | ND                   | 2.0        |              |                |                                 |                                |                    |
| 2-Chloronaphthalene  | ND                   | 5.0        |              |                |                                 |                                |                    |
| Chrysene             | ND                   | 1.0        |              |                |                                 |                                |                    |
| Dibenz(ah)anthracene | ND                   | 2.0        |              |                |                                 |                                |                    |
| Fluoranthene         | ND                   | 1.0        |              |                |                                 |                                |                    |
| Fluorene             | ND                   | 5.0        |              |                |                                 |                                |                    |
| Indeno(123-cd)pyrene | ND                   | 2.0        |              |                |                                 |                                |                    |
| Phenanthrene         | ND                   | 2.0        |              |                |                                 |                                |                    |
| Pyrene               | ND                   | 5.0        |              |                |                                 |                                |                    |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
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LOD = LIMIT OF DETECTION.

COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3117  
LOCATION: BMIC - SD

SAMPLED BY: MI  
SDM/MET

SAMPLE MATRIX: WATER  
SAMPLE ID: MW-5

GTA PROJECT NO: 062321-1  
GTA SAMPLE NO: 7

DATE SAMPLED: 6/21/2021  
TIME SAMPLED:

DATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AM

**PNA EPA 8270D (SIM)**

| <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> |
|----------------------|----------------------|------------|--------------|----------------|---------------------------------|--------------------------------|--------------------|
| Acenaphthene         | ND                   | 5.0        | ug/L (PPB)   | KC/TR          | 6/28/2021                       | 6/28/2021                      | EPA 3511           |
| Acenaphthylene       | ND                   | 5.0        |              |                |                                 |                                |                    |
| Anthracene           | ND                   | 5.0        |              |                |                                 |                                |                    |
| Benzo(a)anthracene   | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(b)fluoranthene | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(k)fluoranthene | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(a)pyrene       | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(ghi)perylene   | ND                   | 2.0        |              |                |                                 |                                |                    |
| 2-Chloronaphthalene  | ND                   | 5.0        |              |                |                                 |                                |                    |
| Chrysene             | ND                   | 1.0        |              |                |                                 |                                |                    |
| Dibenz(ah)anthracene | ND                   | 2.0        |              |                |                                 |                                |                    |
| Fluoranthene         | ND                   | 1.0        |              |                |                                 |                                |                    |
| Fluorene             | ND                   | 5.0        |              |                |                                 |                                |                    |
| Indeno(123-cd)pyrene | ND                   | 2.0        |              |                |                                 |                                |                    |
| Phenanthrene         | ND                   | 2.0        |              |                |                                 |                                |                    |
| Pyrene               | ND                   | 5.0        |              |                |                                 |                                |                    |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
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LOD = LIMIT OF DETECTION.

COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3117  
LOCATION: BMIC - SD

SAMPLED BY: MI  
SDM/MET

SAMPLE MATRIX: WATER  
SAMPLE ID: MW-6

GTA PROJECT NO: 062321-1  
GTA SAMPLE NO: 8

DATE SAMPLED: 6/21/2021  
TIME SAMPLED:

DATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AM

**PNA EPA 8270D (SIM)**

| <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> |
|----------------------|----------------------|------------|--------------|----------------|---------------------------------|--------------------------------|--------------------|
| Acenaphthene         | ND                   | 5.0        | ug/L (PPB)   | KC/TR          | 6/28/2021                       | 6/28/2021                      | EPA 3511           |
| Acenaphthylene       | ND                   | 5.0        |              |                |                                 |                                |                    |
| Anthracene           | ND                   | 5.0        |              |                |                                 |                                |                    |
| Benzo(a)anthracene   | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(b)fluoranthene | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(k)fluoranthene | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(a)pyrene       | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(ghi)perylene   | ND                   | 2.0        |              |                |                                 |                                |                    |
| 2-Chloronaphthalene  | ND                   | 5.0        |              |                |                                 |                                |                    |
| Chrysene             | ND                   | 1.0        |              |                |                                 |                                |                    |
| Dibenz(ah)anthracene | ND                   | 2.0        |              |                |                                 |                                |                    |
| Fluoranthene         | ND                   | 1.0        |              |                |                                 |                                |                    |
| Fluorene             | ND                   | 5.0        |              |                |                                 |                                |                    |
| Indeno(123-cd)pyrene | ND                   | 2.0        |              |                |                                 |                                |                    |
| Phenanthrene         | ND                   | 2.0        |              |                |                                 |                                |                    |
| Pyrene               | ND                   | 5.0        |              |                |                                 |                                |                    |

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

COMPANY: MACKINAC ENVIRONMENTAL

PROJECT NO: M19-3117  
LOCATION: BMIC - SD

SAMPLED BY: MI  
SDM/MET

SAMPLE MATRIX: WATER  
SAMPLE ID: MW-7

GTA PROJECT NO: 062321-1  
GTA SAMPLE NO: 9

DATE SAMPLED: 6/21/2021  
TIME SAMPLED:

DATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 AM

**PNA EPA 8270D (SIM)**

| <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> |
|----------------------|----------------------|------------|--------------|----------------|---------------------------------|--------------------------------|--------------------|
| Acenaphthene         | ND                   | 5.0        | ug/L (PPB)   | KC/TR          | 6/28/2021                       | 6/28/2021                      | EPA 3511           |
| Acenaphthylene       | ND                   | 5.0        |              |                |                                 |                                |                    |
| Anthracene           | ND                   | 5.0        |              |                |                                 |                                |                    |
| Benzo(a)anthracene   | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(b)fluoranthene | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(k)fluoranthene | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(a)pyrene       | ND                   | 1.0        |              |                |                                 |                                |                    |
| Benzo(ghi)perylene   | ND                   | 2.0        |              |                |                                 |                                |                    |
| 2-Chloronaphthalene  | ND                   | 5.0        |              |                |                                 |                                |                    |
| Chrysene             | ND                   | 1.0        |              |                |                                 |                                |                    |
| Dibenz(ah)anthracene | ND                   | 2.0        |              |                |                                 |                                |                    |
| Fluoranthene         | ND                   | 1.0        |              |                |                                 |                                |                    |
| Fluorene             | ND                   | 5.0        |              |                |                                 |                                |                    |
| Indeno(123-cd)pyrene | ND                   | 2.0        |              |                |                                 |                                |                    |
| Phenanthrene         | ND                   | 2.0        |              |                |                                 |                                |                    |
| Pyrene               | ND                   | 5.0        |              |                |                                 |                                |                    |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
ND = NOT DETECTED, RESULT IS <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: MACKINAC ENVIRONMENTAL

GTA PROJECT NO: 062321-  
SAMPLED BY: SDM/METNAME:  
PROJECT NO: M19-3117DATE SAMPLED: 6/18/2021  
TIME SAMPLED:

LOCATION: BMIC - SD

SAMPLE MATRIX: SOIL

DATE RECEIVED: 6/23/2021  
TIME RECEIVED: 11:45 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: MW-1R 2.5FT | % MOISTURE EPA 3550C | 17                   | 0.050      | % OF SAMPLE  | AS             | 6/23/2021             |
| SAMPLE ID: MW-6 2 FT   | % MOISTURE EPA 3550C | 10                   | 0.050      | % OF SAMPLE  | AS             | 6/23/2021             |
| SAMPLE ID: MW-6 3.5 FT | % MOISTURE EPA 3550C | 12                   | 0.050      | % OF SAMPLE  | AS             | 6/23/2021             |
| SAMPLE ID: MW-7 2.5 FT | % MOISTURE EPA 3550C | 19                   | 0.050      | % OF SAMPLE  | AS             | 6/23/2021             |

**CHAIN OF CUSTODY**

|                                   |                                     |                                  |
|-----------------------------------|-------------------------------------|----------------------------------|
| PROJECT NUMBER<br><b>M19-3117</b> | SITE NAME/ADDRESS<br><b>BMIC SD</b> | COMPANY/NAME<br><b>MET</b>       |
| SAMPLED BY<br><b>SDM</b>          | COMPANY<br><b>MET</b>               | GTA PROJECT #<br><b>062321-1</b> |

**SAMPLE INFORMATION**

| # | SAMPLE ID   | DATE SAMPLED | TIME | MATRIX | ANALYSIS |
|---|-------------|--------------|------|--------|----------|
| 1 | MW 1R 2.5ft | 6-18-21      |      | so: 1  | VLG PNA  |
| 2 | MW 6 2ft    | ↓            |      | ↓      | ↓        |
| 3 | MW 6 3.5ft  |              |      |        |          |
| 4 | MW 7 2.5ft  |              |      | ↓      |          |
| 5 | MW 1R       | 6-21-21      |      | GW     |          |
| 6 | MW 2        | ↓            |      | ↓      | ↓        |
| 7 | MW 5        |              |      |        |          |
| 8 | MW 6        |              |      | ↓      |          |
| 9 | MW 7        |              |      | ↓      |          |
|   |             |              |      |        |          |
|   |             |              |      |        |          |
|   |             |              |      |        |          |
|   |             |              |      |        |          |
|   |             |              |      |        |          |
|   |             |              |      |        |          |
|   |             |              |      |        |          |

**BILL TO:**

**REPORT TO:**

*see 0.90C on file*

|                                   |                                    |                                   |                                     |
|-----------------------------------|------------------------------------|-----------------------------------|-------------------------------------|
| RELEASED BY<br><i>[Signature]</i> | DATE/TIME<br><b>6-22-21 / 1500</b> | RECEIVED BY<br><i>[Signature]</i> | DATE/TIME<br><b>6/23/21 11:45am</b> |
|                                   |                                    |                                   |                                     |

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