

**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: SUMMIT PETROLEUM  
Name:  
ClientProj: 3015704007.01  
GTA ProjNo: 051019-6

Site Addr: CARNEY DAHLBERG #2 WELL SITE

Sampled By: MIKE RANKENS/GCES  
Date Rec: 5/10/2019  
Time Rec: 12:25 PM

| Sample No. | Sample ID | Date Sampled | Time Sampled | Sample Matrix |
|------------|-----------|--------------|--------------|---------------|
| 1          | SB-5 (3') | 5/9/2019     | 11:00 AM     | SOIL          |
| 2          | SB-5 (4') | 5/9/2019     | 11:20 AM     | SOIL          |
| 3          | SB-6 (2') | 5/9/2019     | 12:00 PM     | SOIL          |
| 4          | SB-7 (2') | 5/9/2019     | 12:33 PM     | SOIL          |
| 5          | SB-8 (6') | 5/9/2019     | 1:22 PM      | SOIL          |
| 6          | SB-9 (6') | 5/9/2019     | 1:55 PM      | SOIL          |
| 7          | MW-4 (5') | 5/9/2019     | 2:35 PM      | SOIL          |
| 8          | MW-4      | 5/9/2019     | 4:15 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 L Chase*

Kirk L. Chase/Chemist  
Grand Traverse Analytical  
830 Robinwood Court  
Traverse City, MI 49686  
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COMPANY: SUMMIT PETROLEUM  
PROJECT NO: 3015704007.01  
LOCATION: CARNEY DAHLBERG #2 WELL SITE  
MI  
SAMPLE MATRIX: SOIL  
SAMPLE ID: SB-5 (3')

GTA PROJECT NO: 051019-6  
GTA SAMPLE NO: 1  
DATE SAMPLED: 5/9/2019  
TIME SAMPLED: 11:00 AM  
DATE RECEIVED: 5/10/2019  
TIME RECEIVED: 12:25 PM

SAMPLED BY: MIKE RANKENS/GCES

\*\*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             | 5/9/2019                        | 5/12/2019                      | EPA 5035A          |
| Toluene                | ND                   | 50         |              |                |                                 |                                |                    |
| Ethylbenzene           | 59                   | 50         |              |                |                                 |                                |                    |
| Xylene(Total)          | 190                  | 150        |              |                |                                 |                                |                    |
| 1,2,4-Trimethylbenzene | 140                  | 50         |              |                |                                 |                                |                    |
| 1,3,5-Trimethylbenzene | 65                   | 50         |              |                |                                 |                                |                    |
| Naphthalene            | ND                   | 250        |              |                |                                 |                                |                    |
| 2-Methylnaphthalene    | ND                   | 250        |              |                |                                 |                                |                    |

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

ND = NOT DETECTED, RESULT &lt; LOD

LOD = LIMIT OF DETECTION

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COMPANY: SUMMIT PETROLEUM  
PROJECT NO: 3015704007.01  
LOCATION: CARNEY DAHLBERG #2 WELL SITE

MI

SAMPLE MATRIX: SOIL  
SAMPLE ID: SB-5 (4')

GTA PROJECT NO: 051019-6  
GTA SAMPLE NO: 2

DATE SAMPLED: 5/9/2019  
TIME SAMPLED: 11:20 AM  
DATE RECEIVED: 5/10/2019  
TIME RECEIVED: 12:25 PM

SAMPLED BY: MIKE RANKENS/GCES

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**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 |                | 5/9/2019                        | 5/12/2019                      | EPA 5035A          |
| Toluene                | ND                   | 50         |                |                |                                 |                                |                    |
| Ethylbenzene           | ND                   | 50         |                |                |                                 |                                |                    |
| Xylene(Total)          | ND                   | 150        |                |                |                                 |                                |                    |
| 1,2,4-Trimethylbenzene | ND                   | 50         |                |                |                                 |                                |                    |
| 1,3,5-Trimethylbenzene | ND                   | 50         |                |                |                                 |                                |                    |
| Naphthalene            | ND                   | 250        |                |                |                                 |                                |                    |
| 2-Methylnaphthalene    | ND                   | 250        |                |                |                                 |                                |                    |

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COMPANY: SUMMIT PETROLEUM  
PROJECT NO: 3015704007.01  
LOCATION: CARNEY DAHLBERG #2 WELL SITE

GTA PROJECT NO: 051019-6  
GTA SAMPLE NO: 3

DATE SAMPLED: 5/9/2019  
TIME SAMPLED: 12:00 PM  
DATE RECEIVED: 5/10/2019  
TIME RECEIVED: 12:25 PM

MI  
SAMPLE MATRIX: SOIL  
SAMPLE ID: SB-6 (2')

SAMPLED BY: MIKE RANKENS/GCES

\*\*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             | 5/9/2019                        | 5/12/2019                      | EPA 5035A          |
| Toluene                | ND                   | 50         |              |                |                                 |                                |                    |
| Ethylbenzene           | ND                   | 50         |              |                |                                 |                                |                    |
| Xylene(Total)          | ND                   | 150        |              |                |                                 |                                |                    |
| 1,2,4-Trimethylbenzene | ND                   | 50         |              |                |                                 |                                |                    |
| 1,3,5-Trimethylbenzene | ND                   | 50         |              |                |                                 |                                |                    |
| Naphthalene            | ND                   | 250        |              |                |                                 |                                |                    |
| 2-Methylnaphthalene    | ND                   | 250        |              |                |                                 |                                |                    |

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.  
ND = NOT DETECTED, RESULT < LOD  
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COMPANY: SUMMIT PETROLEUM  
PROJECT NO: 3015704007.01  
LOCATION: CARNEY DAHLBERG #2 WELL SITE

MI

SAMPLE MATRIX: SOIL  
SAMPLE ID: SB-7 (2')

GTA PROJECT NO: 051019-6  
GTA SAMPLE NO: 4

DATE SAMPLED: 5/9/2019  
TIME SAMPLED: 12:33 PM  
DATE RECEIVED: 5/10/2019  
TIME RECEIVED: 12:25 PM

SAMPLED BY: MIKE RANKENS/GCES

\*\*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                | 2,000                | 50         | ug/Kg (PPB)  | MR             | 5/9/2019                        | 5/13/2019                      | EPA 5035A          |
| Toluene                | ND                   | 50         |              |                |                                 |                                |                    |
| Ethylbenzene           | 7,400                | 130        |              |                |                                 |                                |                    |
| Xylene(Total)          | 42,000               | 390        |              |                |                                 |                                |                    |
| 1,2,4-Trimethylbenzene | 12,000               | 130        |              |                |                                 |                                |                    |
| 1,3,5-Trimethylbenzene | 7,400                | 130        |              |                |                                 |                                |                    |
| Naphthalene            | 500                  | 250        |              |                |                                 |                                |                    |
| 2-Methylnaphthalene    | 2,200                | 250        |              |                |                                 |                                |                    |

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COMPANY: SUMMIT PETROLEUM  
PROJECT NO: 3015704007.01  
LOCATION: CARNEY DAHLBERG #2 WELL SITE  
MI  
SAMPLE MATRIX: SOIL  
SAMPLE ID: SB-8 (6')

GTA PROJECT NO: 051019-6  
GTA SAMPLE NO: 5  
DATE SAMPLED: 5/9/2019  
TIME SAMPLED: 1:22 PM  
DATE RECEIVED: 5/10/2019  
TIME RECEIVED: 12:25 PM

SAMPLED BY: MIKE RANKENS/GCES

\*\*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             | 5/9/2019                        | 5/12/2019                      | EPA 5035A          |
| Toluene                | ND                   | 50         |              |                |                                 |                                |                    |
| Ethylbenzene           | ND                   | 50         |              |                |                                 |                                |                    |
| Xylene(Total)          | ND                   | 150        |              |                |                                 |                                |                    |
| 1,2,4-Trimethylbenzene | ND                   | 50         |              |                |                                 |                                |                    |
| 1,3,5-Trimethylbenzene | ND                   | 50         |              |                |                                 |                                |                    |
| Naphthalene            | ND                   | 250        |              |                |                                 |                                |                    |
| 2-Methylnaphthalene    | ND                   | 250        |              |                |                                 |                                |                    |

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

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LOD = LIMIT OF DETECTION

COMPANY: SUMMIT PETROLEUM  
PROJECT NO: 3015704007.01  
LOCATION: CARNEY DAHLBERG #2 WELL SITE  
  
MI  
SAMPLE MATRIX: SOIL  
SAMPLE ID: SB-9 (6')

GTA PROJECT NO: 051019-6  
GTA SAMPLE NO: 6  
DATE SAMPLED: 5/9/2019  
TIME SAMPLED: 1:55 PM  
DATE RECEIVED: 5/10/2019  
TIME RECEIVED: 12:25 PM

SAMPLED BY: MIKE RANKENS/GCES

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**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             | 5/9/2019                        | 5/12/2019                      | EPA 5035A          |
| Toluene                | ND                   | 50         |              |                |                                 |                                |                    |
| Ethylbenzene           | ND                   | 50         |              |                |                                 |                                |                    |
| Xylene(Total)          | ND                   | 150        |              |                |                                 |                                |                    |
| 1,2,4-Trimethylbenzene | ND                   | 50         |              |                |                                 |                                |                    |
| 1,3,5-Trimethylbenzene | ND                   | 50         |              |                |                                 |                                |                    |
| Naphthalene            | ND                   | 250        |              |                |                                 |                                |                    |
| 2-Methylnaphthalene    | ND                   | 250        |              |                |                                 |                                |                    |

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

COMPANY: SUMMIT PETROLEUM  
PROJECT NO: 3015704007.01  
LOCATION: CARNEY DAHLBERG #2 WELL SITE  
  
MI  
SAMPLE MATRIX: SOIL  
SAMPLE ID: MW-4 (5')

GTA PROJECT NO: 051019-6  
GTA SAMPLE NO: 7  
DATE SAMPLED: 5/9/2019  
TIME SAMPLED: 2:35 PM  
DATE RECEIVED: 5/10/2019  
TIME RECEIVED: 12:25 PM

SAMPLED BY: MIKE RANKENS/GCES

\*\*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             | 5/9/2019                        | 5/13/2019                      | EPA 5035A          |
| Toluene                | ND                   | 50         |              |                |                                 |                                |                    |
| Ethylbenzene           | ND                   | 50         |              |                |                                 |                                |                    |
| Xylene(Total)          | ND                   | 150        |              |                |                                 |                                |                    |
| 1,2,4-Trimethylbenzene | ND                   | 50         |              |                |                                 |                                |                    |
| 1,3,5-Trimethylbenzene | ND                   | 50         |              |                |                                 |                                |                    |
| Naphthalene            | ND                   | 250        |              |                |                                 |                                |                    |
| 2-Methylnaphthalene    | ND                   | 250        |              |                |                                 |                                |                    |

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COMPANY: SUMMIT PETROLEUM  
PROJECT NO: 3015704007.01  
LOCATION: CARNEY DAHLBERG #2 WELL SITE  
  
MI  
SAMPLE MATRIX: WATER  
SAMPLE ID: MW-4

GTA PROJECT NO: 051019-6  
GTA SAMPLE NO: 8  
DATE SAMPLED: 5/9/2019  
TIME SAMPLED: 4:15 PM  
DATE RECEIVED: 5/10/2019  
TIME RECEIVED: 12:25 PM

SAMPLED BY: MIKE RANKENS/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                | 9.4                  | 1.0        | ug/L (PPB)   | MR             |                           | 5/12/2019                | EPA 5030B          |
| Toluene                | ND                   | 1.0        |              |                |                           |                          |                    |
| Ethylbenzene           | 5.5                  | 1.0        |              |                |                           |                          |                    |
| Xylene(Total)          | 20                   | 3.0        |              |                |                           |                          |                    |
| 1,2,4-Trimethylbenzene | 3.3                  | 1.0        |              |                |                           |                          |                    |
| 1,3,5-Trimethylbenzene | 1.5                  | 1.0        |              |                |                           |                          |                    |
| Naphthalene            | ND                   | 5.0        |              |                |                           |                          |                    |
| 2-Methylnaphthalene    | ND                   | 5.0        |              |                |                           |                          |                    |

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COMPANY: SUMMIT PETROLEUM

GTA PROJECT NO: 051019-6

NAME:

SAMPLED BY: MIKE RANKENS/GCES

PROJECT NO: 3015704007.01

DATE SAMPLED: 5/9/2019

TIME SAMPLED: 11:00 AM

LOCATION: CARNEY DAHLBERG #2 WELL SITE

SAMPLE MATRIX: SOIL

DATE RECEIVED: 5/10/2019

TIME RECEIVED: 12:25 PM

MI

**MOISTURE**

| <u>No:</u>           | <u>Analysis</u>      | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Complete</u> |
|----------------------|----------------------|----------------------|------------|--------------|----------------|----------------------|
| SAMPLE ID: SB-5 (3') | % MOISTURE EPA 3550C | 10                   | 0.050      | % OF SAMPLE  | AS             | 5/10/2019            |
| SAMPLE ID: SB-5 (4') | % MOISTURE EPA 3550C | 7.7                  | 0.050      | % OF SAMPLE  | AS             | 5/10/2019            |
| SAMPLE ID: SB-6 (2') | % MOISTURE EPA 3550C | 14                   | 0.050      | % OF SAMPLE  | AS             | 5/10/2019            |
| SAMPLE ID: SB-7 (2') | % MOISTURE EPA 3550C | 4.9                  | 0.050      | % OF SAMPLE  | AS             | 5/10/2019            |
| SAMPLE ID: SB-8 (6') | % MOISTURE EPA 3550C | 6.4                  | 0.050      | % OF SAMPLE  | AS             | 5/10/2019            |
| SAMPLE ID: SB-9 (6') | % MOISTURE EPA 3550C | 6.5                  | 0.050      | % OF SAMPLE  | AS             | 5/10/2019            |
| SAMPLE ID: MW-4 (5') | % MOISTURE EPA 3550C | 9.6                  | 0.050      | % OF SAMPLE  | AS             | 5/10/2019            |

