

August 31, 2018

## Caerus Oil and Gas

Sample Delivery Group: L1020052  
Samples Received: 08/23/2018  
Project Number:  
Description: NPR water samples Middle Fork  
Site: MF NPR  
Report To: Jake Janicek  
143 Diamond Avenue  
Parachute, CO 81635

Entire Report Reviewed By:



Chris Ward  
Project Manager

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|                                |    |                           |
|--------------------------------|----|---------------------------|
| Cp: Cover Page                 | 1  | <div><div>1</div>Cp</div> |
| Tc: Table of Contents          | 2  |                           |
| Ss: Sample Summary             | 3  | <div><div>2</div>Tc</div> |
| Cn: Case Narrative             | 5  |                           |
| Sr: Sample Results             | 6  | <div><div>3</div>Ss</div> |
| 20180821-NPR12ST L1020052-01   | 6  |                           |
| 20180821-NPR4WW L1020052-02    | 8  | <div><div>4</div>Cn</div> |
| 20180821-NPR14MW L1020052-03   | 10 | <div><div>5</div>Sr</div> |
| 20180821-NPRDUPA L1020052-04   | 12 |                           |
| Gl: Glossary of Terms          | 14 | <div><div>6</div>Gl</div> |
| Al: Accreditations & Locations | 15 | <div><div>7</div>Al</div> |
| Sc: Sample Chain of Custody    | 16 | <div><div>8</div>Sc</div> |

# SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



20180821-NPR12ST L1020052-01 GW

Collected by  
Blair K. Rollins

Collected date/time  
08/21/18 13:45

Received date/time  
08/23/18 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|--|-----------|----------|-----------------------|--------------------|---------|
| Gravimetric Analysis by Method 2540 C-2011       | WG1157182 | 1        | 08/27/18 16:45        | 08/27/18 17:19     | AJS     |
| Wet Chemistry by Method 2320 B-2011              | WG1158338 | 1        | 08/29/18 16:29        | 08/29/18 16:29     | GB      |
| Wet Chemistry by Method 350.1                    | WG1157405 | 1        | 08/28/18 15:51        | 08/28/18 15:51     | JER     |
| Wet Chemistry by Method 4500S2 D-2011            | WG1156382 | 1        | 08/23/18 16:20        | 08/23/18 16:20     | MJA     |
| Wet Chemistry by Method 9040C                    | WG1156367 | 1        | 08/23/18 13:13        | 08/23/18 13:13     | ITB     |
| Wet Chemistry by Method 9050A                    | WG1156384 | 1        | 08/23/18 14:57        | 08/23/18 14:57     | MJA     |
| Wet Chemistry by Method 9056A                    | WG1156379 | 1        | 08/23/18 13:24        | 08/23/18 13:24     | ELN     |
| Wet Chemistry by Method 9056A                    | WG1157137 | 10       | 08/25/18 17:40        | 08/25/18 17:40     | MAJ     |
| Metals (ICP) by Method 6010B                     | WG1156840 | 1        | 08/28/18 19:11        | 08/29/18 16:34     | ST      |
| Metals (ICP) by Method 6010B                     | WG1156840 | 1        | 08/28/18 19:11        | 08/30/18 01:03     | ST      |
| Volatile Organic Compounds (GC) by Method 8021   | WG1156766 | 1        | 08/28/18 03:05        | 08/28/18 03:05     | ACG     |
| Volatile Organic Compounds (GC) by Method RSK175 | WG1157100 | 1        | 08/28/18 11:30        | 08/28/18 11:30     | MEL     |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Gl

7 Al

8 Sc

20180821-NPR4WW L1020052-02 GW

Collected by  
Blair K. Rollins

Collected date/time  
08/21/18 14:05

Received date/time  
08/23/18 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|--|-----------|----------|-----------------------|--------------------|---------|
| Gravimetric Analysis by Method 2540 C-2011       | WG1157182 | 1        | 08/27/18 16:45        | 08/27/18 17:19     | AJS     |
| Wet Chemistry by Method 2320 B-2011              | WG1158338 | 1        | 08/29/18 16:37        | 08/29/18 16:37     | GB      |
| Wet Chemistry by Method 350.1                    | WG1157405 | 1        | 08/28/18 15:57        | 08/28/18 15:57     | JER     |
| Wet Chemistry by Method 4500S2 D-2011            | WG1156382 | 1        | 08/23/18 16:20        | 08/23/18 16:20     | MJA     |
| Wet Chemistry by Method 9040C                    | WG1156367 | 1        | 08/23/18 13:13        | 08/23/18 13:13     | ITB     |
| Wet Chemistry by Method 9050A                    | WG1156384 | 1        | 08/23/18 14:57        | 08/23/18 14:57     | MJA     |
| Wet Chemistry by Method 9056A                    | WG1156379 | 1        | 08/23/18 13:42        | 08/23/18 13:42     | ELN     |
| Wet Chemistry by Method 9056A                    | WG1157137 | 10       | 08/25/18 17:55        | 08/25/18 17:55     | MAJ     |
| Metals (ICP) by Method 6010B                     | WG1156840 | 1        | 08/28/18 19:11        | 08/29/18 16:37     | ST      |
| Metals (ICP) by Method 6010B                     | WG1156840 | 1        | 08/28/18 19:11        | 08/30/18 01:05     | ST      |
| Volatile Organic Compounds (GC) by Method 8021   | WG1156766 | 1        | 08/28/18 03:27        | 08/28/18 03:27     | ACG     |
| Volatile Organic Compounds (GC) by Method RSK175 | WG1157100 | 1        | 08/28/18 11:33        | 08/28/18 11:33     | MEL     |

20180821-NPR14MW L1020052-03 GW

Collected by  
Blair K. Rollins

Collected date/time  
08/21/18 14:30

Received date/time  
08/23/18 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst |
|--|-----------|----------|-----------------------|--------------------|---------|
| Gravimetric Analysis by Method 2540 C-2011       | WG1157182 | 1        | 08/27/18 16:45        | 08/27/18 17:19     | AJS     |
| Wet Chemistry by Method 2320 B-2011              | WG1158338 | 1        | 08/29/18 16:45        | 08/29/18 16:45     | GB      |
| Wet Chemistry by Method 350.1                    | WG1157405 | 1        | 08/28/18 15:59        | 08/28/18 15:59     | JER     |
| Wet Chemistry by Method 4500S2 D-2011            | WG1156382 | 1        | 08/23/18 16:21        | 08/23/18 16:21     | MJA     |
| Wet Chemistry by Method 9040C                    | WG1156367 | 1        | 08/23/18 13:13        | 08/23/18 13:13     | ITB     |
| Wet Chemistry by Method 9050A                    | WG1156916 | 1        | 08/24/18 14:50        | 08/24/18 14:50     | MJA     |
| Wet Chemistry by Method 9056A                    | WG1156379 | 1        | 08/23/18 14:19        | 08/23/18 14:19     | ELN     |
| Wet Chemistry by Method 9056A                    | WG1157137 | 10       | 08/25/18 18:10        | 08/25/18 18:10     | MAJ     |
| Metals (ICP) by Method 6010B                     | WG1156840 | 1        | 08/28/18 19:11        | 08/29/18 16:40     | ST      |
| Metals (ICP) by Method 6010B                     | WG1156840 | 1        | 08/28/18 19:11        | 08/30/18 01:08     | ST      |
| Volatile Organic Compounds (GC) by Method 8021   | WG1156766 | 1        | 08/28/18 03:48        | 08/28/18 03:48     | ACG     |
| Volatile Organic Compounds (GC) by Method RSK175 | WG1157100 | 1        | 08/28/18 11:37        | 08/28/18 11:37     | MEL     |

# SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



20180821-NPRDUPA L1020052-04 GW

Collected by  
Blair K. Rollins

Collected date/time  
08/21/18 08:00

Received date/time  
08/23/18 08:45

| Method   | Batch     | Dilution | Preparation<br>date/time | Analysis<br>date/time | Analyst |
|--|-----------|----------|--------------------------|-----------------------|---------|
| Gravimetric Analysis by Method 2540 C-2011       | WG1157182 | 1        | 08/27/18 16:45           | 08/27/18 17:19        | AJS     |
| Wet Chemistry by Method 2320 B-2011              | WG1158338 | 1        | 08/29/18 16:52           | 08/29/18 16:52        | GB      |
| Wet Chemistry by Method 350.1                    | WG1157405 | 1        | 08/28/18 16:00           | 08/28/18 16:00        | JER     |
| Wet Chemistry by Method 4500S2 D-2011            | WG1156382 | 1        | 08/23/18 16:22           | 08/23/18 16:22        | MJA     |
| Wet Chemistry by Method 9040C                    | WG1156367 | 1        | 08/23/18 13:13           | 08/23/18 13:13        | ITB     |
| Wet Chemistry by Method 9050A                    | WG1156916 | 1        | 08/24/18 14:50           | 08/24/18 14:50        | MJA     |
| Wet Chemistry by Method 9056A                    | WG1156379 | 1        | 08/23/18 14:37           | 08/23/18 14:37        | ELN     |
| Wet Chemistry by Method 9056A                    | WG1157137 | 10       | 08/25/18 18:55           | 08/25/18 18:55        | MAJ     |
| Metals (ICP) by Method 6010B                     | WG1156840 | 1        | 08/28/18 19:11           | 08/29/18 16:47        | ST      |
| Metals (ICP) by Method 6010B                     | WG1156840 | 1        | 08/28/18 19:11           | 08/30/18 01:16        | ST      |
| Volatile Organic Compounds (GC) by Method 8021   | WG1156766 | 1        | 08/28/18 04:10           | 08/28/18 04:10        | ACG     |
| Volatile Organic Compounds (GC) by Method RSK175 | WG1157100 | 1        | 08/28/18 11:40           | 08/28/18 11:40        | MEL     |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Gl

<sup>7</sup>Al

<sup>8</sup>Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris Ward  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Gl

<sup>7</sup> Al

<sup>8</sup> Sc



## Gravimetric Analysis by Method 2540 C-2011

| Analyte          | Result | Qualifier | RDL  | Dilution | Analysis date / time | Batch     |
|------------------|--------|-----------|------|----------|----------------------|-----------|
| Dissolved Solids | 452    |           | 10.0 | 1        | 08/27/2018 17:19     | WG1157182 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Gl

7 Al

8 Sc

## Wet Chemistry by Method 2320 B-2011

| Analyte                | Result | Qualifier | RDL  | Dilution | Analysis date / time | Batch     |
|------------------------|--------|-----------|------|----------|----------------------|-----------|
| Alkalinity             | 307    |           | 20.0 | 1        | 08/29/2018 16:29     | WG1158338 |
| Alkalinity,Bicarbonate | 297    |           | 20.0 | 1        | 08/29/2018 16:29     | WG1158338 |
| Alkalinity,Carbonate   | ND     |           | 20.0 | 1        | 08/29/2018 16:29     | WG1158338 |

## Sample Narrative:

L1020052-01 WG1158338: Endpoint pH 4.5 headspace

## Wet Chemistry by Method 350.1

| Analyte          | Result | Qualifier | RDL   | Dilution | Analysis date / time | Batch     |
|------------------|--------|-----------|-------|----------|----------------------|-----------|
| Ammonia Nitrogen | ND     |           | 0.100 | 1        | 08/28/2018 15:51     | WG1157405 |

## Wet Chemistry by Method 4500S2 D-2011

| Analyte | Result | Qualifier | RDL    | Dilution | Analysis date / time | Batch     |
|---------|--------|-----------|--------|----------|----------------------|-----------|
| Sulfide | ND     |           | 0.0500 | 1        | 08/23/2018 16:20     | WG1156382 |

## Wet Chemistry by Method 9040C

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch     |
|---------|--------|-----------|----------|----------------------|-----------|
| pH      | 8.26   | T8        | 1        | 08/23/2018 13:13     | WG1156367 |

## Sample Narrative:

L1020052-01 WG1156367: 8.26 at 9.7C

## Wet Chemistry by Method 9050A

| Analyte              | Result | Qualifier | RDL  | Dilution | Analysis date / time | Batch     |
|----------------------|--------|-----------|------|----------|----------------------|-----------|
| Specific Conductance | 774    |           | 10.0 | 1        | 08/23/2018 14:57     | WG1156384 |

## Wet Chemistry by Method 9056A

| Analyte        | Result | Qualifier | RDL   | Dilution | Analysis date / time | Batch     |
|----------------|--------|-----------|-------|----------|----------------------|-----------|
| Bromide        | ND     |           | 1.00  | 1        | 08/23/2018 13:24     | WG1156379 |
| Chloride       | 5.66   |           | 1.00  | 1        | 08/23/2018 13:24     | WG1156379 |
| Fluoride       | 0.742  |           | 0.100 | 1        | 08/23/2018 13:24     | WG1156379 |
| Nitrate as (N) | 0.654  |           | 0.100 | 1        | 08/23/2018 13:24     | WG1156379 |
| Nitrite as (N) | ND     |           | 0.100 | 1        | 08/23/2018 13:24     | WG1156379 |
| Sulfate        | 95.9   |           | 50.0  | 10       | 08/25/2018 17:40     | WG1157137 |

## Metals (ICP) by Method 6010B

| Analyte           | Result | Qualifier | RDL     | Dilution | Analysis date / time | Batch     |
|-------------------|--------|-----------|---------|----------|----------------------|-----------|
| Arsenic,Dissolved | ND     |           | 0.0100  | 1        | 08/29/2018 16:34     | WG1156840 |
| Barium,Dissolved  | 0.0553 |           | 0.00500 | 1        | 08/29/2018 16:34     | WG1156840 |
| Cadmium,Dissolved | ND     |           | 0.00200 | 1        | 08/29/2018 16:34     | WG1156840 |
| Calcium,Dissolved | 48.0   |           | 1.00    | 1        | 08/29/2018 16:34     | WG1156840 |



## Metals (ICP) by Method 6010B

| Analyte             | Result<br>mg/l | Qualifier | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch     |
|---------------------|----------------|-----------|-------------|----------|-------------------------|-----------|
| Chromium,Dissolved  | ND             |           | 0.0100      | 1        | 08/29/2018 16:34        | WG1156840 |
| Copper,Dissolved    | ND             |           | 0.0100      | 1        | 08/29/2018 16:34        | WG1156840 |
| Iron,Dissolved      | ND             |           | 0.100       | 1        | 08/29/2018 16:34        | WG1156840 |
| Lead,Dissolved      | ND             |           | 0.00500     | 1        | 08/29/2018 16:34        | WG1156840 |
| Magnesium,Dissolved | 42.6           |           | 1.00        | 1        | 08/29/2018 16:34        | WG1156840 |
| Manganese,Dissolved | ND             |           | 0.0100      | 1        | 08/29/2018 16:34        | WG1156840 |
| Potassium,Dissolved | 3.57           |           | 1.00        | 1        | 08/29/2018 16:34        | WG1156840 |
| Selenium,Dissolved  | ND             |           | 0.0100      | 1        | 08/30/2018 01:03        | WG1156840 |
| Silver,Dissolved    | ND             |           | 0.00500     | 1        | 08/29/2018 16:34        | WG1156840 |
| Sodium,Dissolved    | 65.8           |           | 1.00        | 1        | 08/29/2018 16:34        | WG1156840 |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Gl<sup>7</sup> Al<sup>8</sup> Sc

## Volatile Organic Compounds (GC) by Method 8021

| Analyte                                 | Result<br>mg/l | Qualifier | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch     |
|---|----------------|-----------|-------------|----------|-------------------------|-----------|
| Benzene                                 | ND             |           | 0.000500    | 1        | 08/28/2018 03:05        | WG1156766 |
| Toluene                                 | ND             |           | 0.00100     | 1        | 08/28/2018 03:05        | WG1156766 |
| Ethylbenzene                            | ND             |           | 0.000500    | 1        | 08/28/2018 03:05        | WG1156766 |
| Total Xylene                            | ND             |           | 0.00150     | 1        | 08/28/2018 03:05        | WG1156766 |
| Methyl tert-butyl ether                 | ND             |           | 0.00100     | 1        | 08/28/2018 03:05        | WG1156766 |
| (S) <i>o,o,a</i> -Trifluorotoluene(PID) | 92.5           |           | 79.0-125    |          | 08/28/2018 03:05        | WG1156766 |

## Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result<br>mg/l | Qualifier | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch     |
|---------|----------------|-----------|-------------|----------|-------------------------|-----------|
| Methane | ND             |           | 0.0100      | 1        | 08/28/2018 11:30        | WG1157100 |
| Ethane  | ND             |           | 0.0130      | 1        | 08/28/2018 11:30        | WG1157100 |
| Ethene  | ND             |           | 0.0130      | 1        | 08/28/2018 11:30        | WG1157100 |



## Gravimetric Analysis by Method 2540 C-2011

| Analyte          | Result | Qualifier | RDL  | Dilution | Analysis date / time | Batch     |
|------------------|--------|-----------|------|----------|----------------------|-----------|
| Dissolved Solids | 536    |           | 10.0 | 1        | 08/27/2018 17:19     | WG1157182 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Gl

7 Al

8 Sc

## Wet Chemistry by Method 2320 B-2011

| Analyte                | Result | Qualifier | RDL  | Dilution | Analysis date / time | Batch     |
|------------------------|--------|-----------|------|----------|----------------------|-----------|
| Alkalinity             | 326    |           | 20.0 | 1        | 08/29/2018 16:37     | WG1158338 |
| Alkalinity,Bicarbonate | 325    |           | 20.0 | 1        | 08/29/2018 16:37     | WG1158338 |
| Alkalinity,Carbonate   | ND     |           | 20.0 | 1        | 08/29/2018 16:37     | WG1158338 |

## Sample Narrative:

L1020052-02 WG1158338: Endpoint pH 4.5 headspace

## Wet Chemistry by Method 350.1

| Analyte          | Result | Qualifier | RDL   | Dilution | Analysis date / time | Batch     |
|------------------|--------|-----------|-------|----------|----------------------|-----------|
| Ammonia Nitrogen | ND     |           | 0.100 | 1        | 08/28/2018 15:57     | WG1157405 |

## Wet Chemistry by Method 4500S2 D-2011

| Analyte | Result | Qualifier | RDL    | Dilution | Analysis date / time | Batch     |
|---------|--------|-----------|--------|----------|----------------------|-----------|
| Sulfide | ND     |           | 0.0500 | 1        | 08/23/2018 16:20     | WG1156382 |

## Wet Chemistry by Method 9040C

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch     |
|---------|--------|-----------|----------|----------------------|-----------|
| pH      | 8.28   | T8        | 1        | 08/23/2018 13:13     | WG1156367 |

## Sample Narrative:

L1020052-02 WG1156367: 8.28 at 9.8C

## Wet Chemistry by Method 9050A

| Analyte              | Result | Qualifier | RDL  | Dilution | Analysis date / time | Batch     |
|----------------------|--------|-----------|------|----------|----------------------|-----------|
| Specific Conductance | 890    |           | 10.0 | 1        | 08/23/2018 14:57     | WG1156384 |

## Wet Chemistry by Method 9056A

| Analyte        | Result | Qualifier | RDL   | Dilution | Analysis date / time | Batch     |
|----------------|--------|-----------|-------|----------|----------------------|-----------|
| Bromide        | ND     |           | 1.00  | 1        | 08/23/2018 13:42     | WG1156379 |
| Chloride       | 6.28   |           | 1.00  | 1        | 08/23/2018 13:42     | WG1156379 |
| Fluoride       | 0.848  |           | 0.100 | 1        | 08/23/2018 13:42     | WG1156379 |
| Nitrate as (N) | 0.719  |           | 0.100 | 1        | 08/23/2018 13:42     | WG1156379 |
| Nitrite as (N) | ND     |           | 0.100 | 1        | 08/23/2018 13:42     | WG1156379 |
| Sulfate        | 92.6   |           | 50.0  | 10       | 08/25/2018 17:55     | WG1157137 |

## Metals (ICP) by Method 6010B

| Analyte           | Result | Qualifier | RDL     | Dilution | Analysis date / time | Batch     |
|-------------------|--------|-----------|---------|----------|----------------------|-----------|
| Arsenic,Dissolved | ND     |           | 0.0100  | 1        | 08/29/2018 16:37     | WG1156840 |
| Barium,Dissolved  | 0.0507 |           | 0.00500 | 1        | 08/29/2018 16:37     | WG1156840 |
| Cadmium,Dissolved | ND     |           | 0.00200 | 1        | 08/29/2018 16:37     | WG1156840 |
| Calcium,Dissolved | 41.0   |           | 1.00    | 1        | 08/29/2018 16:37     | WG1156840 |





## Metals (ICP) by Method 6010B

| Analyte             | Result<br>mg/l | Qualifier | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch     |
|---------------------|----------------|-----------|-------------|----------|-------------------------|-----------|
| Chromium,Dissolved  | ND             |           | 0.0100      | 1        | 08/29/2018 16:37        | WG1156840 |
| Copper,Dissolved    | ND             |           | 0.0100      | 1        | 08/29/2018 16:37        | WG1156840 |
| Iron,Dissolved      | ND             |           | 0.100       | 1        | 08/29/2018 16:37        | WG1156840 |
| Lead,Dissolved      | ND             |           | 0.00500     | 1        | 08/29/2018 16:37        | WG1156840 |
| Magnesium,Dissolved | 48.3           |           | 1.00        | 1        | 08/29/2018 16:37        | WG1156840 |
| Manganese,Dissolved | 0.0322         |           | 0.0100      | 1        | 08/29/2018 16:37        | WG1156840 |
| Potassium,Dissolved | 2.63           |           | 1.00        | 1        | 08/29/2018 16:37        | WG1156840 |
| Selenium,Dissolved  | ND             |           | 0.0100      | 1        | 08/30/2018 01:05        | WG1156840 |
| Silver,Dissolved    | ND             |           | 0.00500     | 1        | 08/29/2018 16:37        | WG1156840 |
| Sodium,Dissolved    | 80.5           |           | 1.00        | 1        | 08/29/2018 16:37        | WG1156840 |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Gl<sup>7</sup> Al<sup>8</sup> Sc

## Volatile Organic Compounds (GC) by Method 8021

| Analyte                                 | Result<br>mg/l | Qualifier | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch     |
|---|----------------|-----------|-------------|----------|-------------------------|-----------|
| Benzene                                 | ND             |           | 0.000500    | 1        | 08/28/2018 03:27        | WG1156766 |
| Toluene                                 | ND             |           | 0.00100     | 1        | 08/28/2018 03:27        | WG1156766 |
| Ethylbenzene                            | ND             |           | 0.000500    | 1        | 08/28/2018 03:27        | WG1156766 |
| Total Xylene                            | ND             |           | 0.00150     | 1        | 08/28/2018 03:27        | WG1156766 |
| Methyl tert-butyl ether                 | ND             |           | 0.00100     | 1        | 08/28/2018 03:27        | WG1156766 |
| (S) <i>α,α,α</i> -Trifluorotoluene(PID) | 91.1           |           | 79.0-125    |          | 08/28/2018 03:27        | WG1156766 |

## Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result<br>mg/l | Qualifier | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch     |
|---------|----------------|-----------|-------------|----------|-------------------------|-----------|
| Methane | ND             |           | 0.0100      | 1        | 08/28/2018 11:33        | WG1157100 |
| Ethane  | ND             |           | 0.0130      | 1        | 08/28/2018 11:33        | WG1157100 |
| Ethene  | ND             |           | 0.0130      | 1        | 08/28/2018 11:33        | WG1157100 |



## Gravimetric Analysis by Method 2540 C-2011

| Analyte          | Result | Qualifier | RDL  | Dilution | Analysis date / time | Batch     |
|------------------|--------|-----------|------|----------|----------------------|-----------|
| Dissolved Solids | 926    |           | 10.0 | 1        | 08/27/2018 17:19     | WG1157182 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Gl

7 Al

8 Sc

## Wet Chemistry by Method 2320 B-2011

| Analyte                | Result | Qualifier | RDL  | Dilution | Analysis date / time | Batch     |
|------------------------|--------|-----------|------|----------|----------------------|-----------|
| Alkalinity             | 444    |           | 20.0 | 1        | 08/29/2018 16:45     | WG1158338 |
| Alkalinity,Bicarbonate | 444    |           | 20.0 | 1        | 08/29/2018 16:45     | WG1158338 |
| Alkalinity,Carbonate   | ND     |           | 20.0 | 1        | 08/29/2018 16:45     | WG1158338 |

## Sample Narrative:

L1020052-03 WG1158338: Endpoint pH 4.5 headspace

## Wet Chemistry by Method 350.1

| Analyte          | Result | Qualifier | RDL   | Dilution | Analysis date / time | Batch     |
|------------------|--------|-----------|-------|----------|----------------------|-----------|
| Ammonia Nitrogen | ND     |           | 0.100 | 1        | 08/28/2018 15:59     | WG1157405 |

## Wet Chemistry by Method 4500S2 D-2011

| Analyte | Result | Qualifier | RDL    | Dilution | Analysis date / time | Batch     |
|---------|--------|-----------|--------|----------|----------------------|-----------|
| Sulfide | ND     |           | 0.0500 | 1        | 08/23/2018 16:21     | WG1156382 |

## Wet Chemistry by Method 9040C

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch     |
|---------|--------|-----------|----------|----------------------|-----------|
| pH      | 7.42   | T8        | 1        | 08/23/2018 13:13     | WG1156367 |

## Sample Narrative:

L1020052-03 WG1156367: 7.42 at 10.2C

## Wet Chemistry by Method 9050A

| Analyte              | Result | Qualifier | RDL  | Dilution | Analysis date / time | Batch     |
|----------------------|--------|-----------|------|----------|----------------------|-----------|
| Specific Conductance | 1460   |           | 10.0 | 1        | 08/24/2018 14:50     | WG1156916 |

## Wet Chemistry by Method 9056A

| Analyte        | Result | Qualifier | RDL   | Dilution | Analysis date / time | Batch     |
|----------------|--------|-----------|-------|----------|----------------------|-----------|
| Bromide        | ND     |           | 1.00  | 1        | 08/23/2018 14:19     | WG1156379 |
| Chloride       | 29.0   |           | 1.00  | 1        | 08/23/2018 14:19     | WG1156379 |
| Fluoride       | 0.771  |           | 0.100 | 1        | 08/23/2018 14:19     | WG1156379 |
| Nitrate as (N) | 5.36   |           | 0.100 | 1        | 08/23/2018 14:19     | WG1156379 |
| Nitrite as (N) | ND     |           | 0.100 | 1        | 08/23/2018 14:19     | WG1156379 |
| Sulfate        | 315    |           | 50.0  | 10       | 08/25/2018 18:10     | WG1157137 |

## Metals (ICP) by Method 6010B

| Analyte           | Result | Qualifier | RDL     | Dilution | Analysis date / time | Batch     |
|-------------------|--------|-----------|---------|----------|----------------------|-----------|
| Arsenic,Dissolved | ND     |           | 0.0100  | 1        | 08/29/2018 16:40     | WG1156840 |
| Barium,Dissolved  | 0.0554 |           | 0.00500 | 1        | 08/29/2018 16:40     | WG1156840 |
| Cadmium,Dissolved | ND     |           | 0.00200 | 1        | 08/29/2018 16:40     | WG1156840 |
| Calcium,Dissolved | 97.5   |           | 1.00    | 1        | 08/29/2018 16:40     | WG1156840 |



## Metals (ICP) by Method 6010B

| Analyte             | Result<br>mg/l | Qualifier | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch     |
|---------------------|----------------|-----------|-------------|----------|-------------------------|-----------|
| Chromium,Dissolved  | ND             |           | 0.0100      | 1        | 08/29/2018 16:40        | WG1156840 |
| Copper,Dissolved    | ND             |           | 0.0100      | 1        | 08/29/2018 16:40        | WG1156840 |
| Iron,Dissolved      | ND             |           | 0.100       | 1        | 08/29/2018 16:40        | WG1156840 |
| Lead,Dissolved      | ND             |           | 0.00500     | 1        | 08/29/2018 16:40        | WG1156840 |
| Magnesium,Dissolved | 87.2           |           | 1.00        | 1        | 08/29/2018 16:40        | WG1156840 |
| Manganese,Dissolved | ND             |           | 0.0100      | 1        | 08/29/2018 16:40        | WG1156840 |
| Potassium,Dissolved | 4.58           |           | 1.00        | 1        | 08/29/2018 16:40        | WG1156840 |
| Selenium,Dissolved  | ND             |           | 0.0100      | 1        | 08/30/2018 01:08        | WG1156840 |
| Silver,Dissolved    | ND             |           | 0.00500     | 1        | 08/29/2018 16:40        | WG1156840 |
| Sodium,Dissolved    | 127            |           | 1.00        | 1        | 08/29/2018 16:40        | WG1156840 |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Gl<sup>7</sup> Al<sup>8</sup> Sc

## Volatile Organic Compounds (GC) by Method 8021

| Analyte                                 | Result<br>mg/l | Qualifier | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch     |
|---|----------------|-----------|-------------|----------|-------------------------|-----------|
| Benzene                                 | ND             |           | 0.000500    | 1        | 08/28/2018 03:48        | WG1156766 |
| Toluene                                 | ND             |           | 0.00100     | 1        | 08/28/2018 03:48        | WG1156766 |
| Ethylbenzene                            | ND             |           | 0.000500    | 1        | 08/28/2018 03:48        | WG1156766 |
| Total Xylene                            | ND             |           | 0.00150     | 1        | 08/28/2018 03:48        | WG1156766 |
| Methyl tert-butyl ether                 | ND             |           | 0.00100     | 1        | 08/28/2018 03:48        | WG1156766 |
| (S) <i>o,o,a</i> -Trifluorotoluene(PID) | 93.0           |           | 79.0-125    |          | 08/28/2018 03:48        | WG1156766 |

## Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result<br>mg/l | Qualifier | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch     |
|---------|----------------|-----------|-------------|----------|-------------------------|-----------|
| Methane | ND             |           | 0.0100      | 1        | 08/28/2018 11:37        | WG1157100 |
| Ethane  | ND             |           | 0.0130      | 1        | 08/28/2018 11:37        | WG1157100 |
| Ethene  | ND             |           | 0.0130      | 1        | 08/28/2018 11:37        | WG1157100 |



## Gravimetric Analysis by Method 2540 C-2011

| Analyte          | Result | Qualifier | RDL  | Dilution | Analysis date / time | Batch     |
|------------------|--------|-----------|------|----------|----------------------|-----------|
| Dissolved Solids | 467    |           | 10.0 | 1        | 08/27/2018 17:19     | WG1157182 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Gl

7 Al

8 Sc

## Wet Chemistry by Method 2320 B-2011

| Analyte                | Result | Qualifier | RDL  | Dilution | Analysis date / time | Batch     |
|------------------------|--------|-----------|------|----------|----------------------|-----------|
| Alkalinity             | 306    |           | 20.0 | 1        | 08/29/2018 16:52     | WG1158338 |
| Alkalinity,Bicarbonate | 296    |           | 20.0 | 1        | 08/29/2018 16:52     | WG1158338 |
| Alkalinity,Carbonate   | ND     |           | 20.0 | 1        | 08/29/2018 16:52     | WG1158338 |

## Sample Narrative:

L1020052-04 WG1158338: Endpoint pH 4.5 headspace

## Wet Chemistry by Method 350.1

| Analyte          | Result | Qualifier | RDL   | Dilution | Analysis date / time | Batch     |
|------------------|--------|-----------|-------|----------|----------------------|-----------|
| Ammonia Nitrogen | ND     |           | 0.100 | 1        | 08/28/2018 16:00     | WG1157405 |

## Wet Chemistry by Method 4500S2 D-2011

| Analyte | Result | Qualifier | RDL    | Dilution | Analysis date / time | Batch     |
|---------|--------|-----------|--------|----------|----------------------|-----------|
| Sulfide | ND     |           | 0.0500 | 1        | 08/23/2018 16:22     | WG1156382 |

## Wet Chemistry by Method 9040C

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch     |
|---------|--------|-----------|----------|----------------------|-----------|
| pH      | 8.26   | T8        | 1        | 08/23/2018 13:13     | WG1156367 |

## Sample Narrative:

L1020052-04 WG1156367: 8.26 at 10.8C

## Wet Chemistry by Method 9050A

| Analyte              | Result | Qualifier | RDL  | Dilution | Analysis date / time | Batch     |
|----------------------|--------|-----------|------|----------|----------------------|-----------|
| Specific Conductance | 773    |           | 10.0 | 1        | 08/24/2018 14:50     | WG1156916 |

## Wet Chemistry by Method 9056A

| Analyte        | Result | Qualifier | RDL   | Dilution | Analysis date / time | Batch     |
|----------------|--------|-----------|-------|----------|----------------------|-----------|
| Bromide        | ND     |           | 1.00  | 1        | 08/23/2018 14:37     | WG1156379 |
| Chloride       | 5.94   |           | 1.00  | 1        | 08/23/2018 14:37     | WG1156379 |
| Fluoride       | 0.752  |           | 0.100 | 1        | 08/23/2018 14:37     | WG1156379 |
| Nitrate as (N) | 0.659  | T8        | 0.100 | 1        | 08/23/2018 14:37     | WG1156379 |
| Nitrite as (N) | ND     | T8        | 0.100 | 1        | 08/23/2018 14:37     | WG1156379 |
| Sulfate        | 96.6   |           | 50.0  | 10       | 08/25/2018 18:55     | WG1157137 |

## Metals (ICP) by Method 6010B

| Analyte           | Result | Qualifier | RDL     | Dilution | Analysis date / time | Batch     |
|-------------------|--------|-----------|---------|----------|----------------------|-----------|
| Arsenic,Dissolved | ND     |           | 0.0100  | 1        | 08/29/2018 16:47     | WG1156840 |
| Barium,Dissolved  | 0.0558 |           | 0.00500 | 1        | 08/29/2018 16:47     | WG1156840 |
| Cadmium,Dissolved | ND     |           | 0.00200 | 1        | 08/29/2018 16:47     | WG1156840 |
| Calcium,Dissolved | 48.7   |           | 1.00    | 1        | 08/29/2018 16:47     | WG1156840 |



## Metals (ICP) by Method 6010B

| Analyte             | Result<br>mg/l | Qualifier | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch     |
|---------------------|----------------|-----------|-------------|----------|-------------------------|-----------|
| Chromium,Dissolved  | ND             |           | 0.0100      | 1        | 08/29/2018 16:47        | WG1156840 |
| Copper,Dissolved    | ND             |           | 0.0100      | 1        | 08/29/2018 16:47        | WG1156840 |
| Iron,Dissolved      | ND             |           | 0.100       | 1        | 08/29/2018 16:47        | WG1156840 |
| Lead,Dissolved      | ND             |           | 0.00500     | 1        | 08/29/2018 16:47        | WG1156840 |
| Magnesium,Dissolved | 42.9           |           | 1.00        | 1        | 08/29/2018 16:47        | WG1156840 |
| Manganese,Dissolved | ND             |           | 0.0100      | 1        | 08/29/2018 16:47        | WG1156840 |
| Potassium,Dissolved | 3.56           |           | 1.00        | 1        | 08/29/2018 16:47        | WG1156840 |
| Selenium,Dissolved  | ND             |           | 0.0100      | 1        | 08/30/2018 01:16        | WG1156840 |
| Silver,Dissolved    | ND             |           | 0.00500     | 1        | 08/29/2018 16:47        | WG1156840 |
| Sodium,Dissolved    | 65.4           |           | 1.00        | 1        | 08/29/2018 16:47        | WG1156840 |

1  
Cp2  
Tc3  
Ss4  
Cn5  
Sr6  
Gl7  
Al8  
Sc

## Volatile Organic Compounds (GC) by Method 8021

| Analyte                                 | Result<br>mg/l | Qualifier | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch     |
|---|----------------|-----------|-------------|----------|-------------------------|-----------|
| Benzene                                 | ND             |           | 0.000500    | 1        | 08/28/2018 04:10        | WG1156766 |
| Toluene                                 | ND             |           | 0.00100     | 1        | 08/28/2018 04:10        | WG1156766 |
| Ethylbenzene                            | ND             |           | 0.000500    | 1        | 08/28/2018 04:10        | WG1156766 |
| Total Xylene                            | ND             |           | 0.00150     | 1        | 08/28/2018 04:10        | WG1156766 |
| Methyl tert-butyl ether                 | ND             |           | 0.00100     | 1        | 08/28/2018 04:10        | WG1156766 |
| (S) <i>α,α,α</i> -Trifluorotoluene(PID) | 92.0           |           | 79.0-125    |          | 08/28/2018 04:10        | WG1156766 |

## Volatile Organic Compounds (GC) by Method RSK175

| Analyte | Result<br>mg/l | Qualifier | RDL<br>mg/l | Dilution | Analysis<br>date / time | Batch     |
|---------|----------------|-----------|-------------|----------|-------------------------|-----------|
| Methane | ND             |           | 0.0100      | 1        | 08/28/2018 11:40        | WG1157100 |
| Ethane  | ND             |           | 0.0130      | 1        | 08/28/2018 11:40        | WG1157100 |
| Ethene  | ND             |           | 0.0130      | 1        | 08/28/2018 11:40        | WG1157100 |



## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

### Abbreviations and Definitions

|                              |  |
|------------------------------|--|
| ND                           | Not detected at the Reporting Limit (or MDL where applicable).   |
| RDL                          | Reported Detection Limit.  |
| SDG                          | Sample Delivery Group.   |
| (S)                          | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.   |
| Analyte                      | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.   |
| Dilution                     | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.  |
| Qualifier                    | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.  |
| Result                       | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn)          | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.  |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.  |
| Sample Results (Sr)          | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.   |
| Sample Summary (Ss)          | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.  |

### Qualifier Description

|    |   |
|----|---|
| T8 | Sample(s) received past/too close to holding time expiration. |
|----|---|

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Gl

<sup>7</sup> A

<sup>8</sup> Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

|                         |             |                             |                   |
|-------------------------|-------------|-----------------------------|-------------------|
| Alabama                 | 40660       | Nebraska                    | NE-OS-15-05       |
| Alaska                  | 17-026      | Nevada                      | TN-03-2002-34     |
| Arizona                 | AZ0612      | New Hampshire               | 2975              |
| Arkansas                | 88-0469     | New Jersey–NELAP            | TN002             |
| California              | 2932        | New Mexico <sup>1</sup>     | n/a               |
| Colorado                | TN00003     | New York                    | 11742             |
| Connecticut             | PH-0197     | North Carolina              | Env375            |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704           |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41                |
| Georgia <sup>1</sup>    | 923         | North Dakota                | R-140             |
| Idaho                   | TN00003     | Ohio–VAP                    | CL0069            |
| Illinois                | 200008      | Oklahoma                    | 9915              |
| Indiana                 | C-TN-01     | Oregon                      | TN200002          |
| Iowa                    | 364         | Pennsylvania                | 68-02979          |
| Kansas                  | E-10277     | Rhode Island                | LA000356          |
| Kentucky <sup>1 6</sup> | 90010       | South Carolina              | 84004             |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a               |
| Louisiana               | AI30792     | Tennessee <sup>1 4</sup>    | 2006              |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T 104704245-17-14 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | LAB0152           |
| Maryland                | 324         | Utah                        | TN00003           |
| Massachusetts           | M-TN003     | Vermont                     | VT2006            |
| Michigan                | 9958        | Virginia                    | 460132            |
| Minnesota               | 047-999-395 | Washington                  | C847              |
| Mississippi             | TN00003     | West Virginia               | 233               |
| Missouri                | 340         | Wisconsin                   | 9980939910        |
| Montana                 | CERT0086    | Wyoming                     | A2LA              |

## Third Party Federal Accreditations

|                               |         |                     |               |
|-------------------------------|---------|---------------------|---------------|
| A2LA – ISO 17025              | 1461.01 | AIHA-LAP, LLC EMLAP | 100789        |
| A2LA – ISO 17025 <sup>5</sup> | 1461.02 | DOD                 | 1461.01       |
| Canada                        | 1461.01 | USDA                | P330-15-00234 |
| EPA–Crypto                    | TN00003 |                     |               |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Condition:  
NCF / OK

Relinquished by : (Signature)



Matthew Lockhart



|                  |                  |               |                               |
|------------------|------------------|---------------|-------------------------------|
| Login #:10200052 | Client:CAERUSPCO | Date:08/23/18 | Evaluated by:Matthew Lockhart |
|------------------|------------------|---------------|-------------------------------|

**Non-Conformance (check applicable items)**

| Sample Integrity   | Chain of Custody Clarification                   | If Broken Container:                                 |
|--|--|--|
| <input checked="" type="checkbox"/> Parameter(s) past holding time | Login Clarification Needed                       |  |
| <input type="checkbox"/> Improper temperature                      | Chain of custody is incomplete                   | Insufficient packing material around container       |
| <input type="checkbox"/> Improper container type                   | Please specify Metals requested.                 | Insufficient packing material inside cooler          |
| <input type="checkbox"/> Improper preservation                     | Please specify TCLP requested.                   | Improper handling by carrier (FedEx / UPS / Courier) |
| <input type="checkbox"/> Insufficient sample volume.               | Received additional samples not listed on coc.   | Sample was frozen                                    |
| <input type="checkbox"/> Sample is biphasic.                       | Sample ids on containers do not match ids on coc | Container lid not intact                             |
| <input type="checkbox"/> Vials received with headspace.            | Trip Blank not received.                         | <b>If no Chain of Custody:</b>                       |
| <input type="checkbox"/> Broken container                          | Client did not "X" analysis.                     | Received by:   |
| <input type="checkbox"/> Broken container:                         | Chain of Custody is missing                      | Date/Time:   |
| <input type="checkbox"/> Sufficient sample remains                 |  | Temp./Cont. Rec./pH:                                 |
|  |  | Carrier:   |
|  |  | Tracking#  |

**Login Comments:** Sample ID 20180821 - NPRDUPA are out of hold for nitrite and nitrate.

|                     |  |                                |                                     |               |            |
|---------------------|--|--------------------------------|-------------------------------------|---------------|------------|
| Client informed by: | <input checked="" type="checkbox"/> Call | <input type="checkbox"/> Email | <input type="checkbox"/> Voice Mail | Date: 8/23/18 | Time: 1136 |
| TSR Initials: CMW   | Client Contact: Jake Janicek             |                                |                                     |               |            |

**Login Instructions:**

Client notified. Analyze out of HOLD and qualify