

## ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

ExxonMobil  
Mobil Pipeline Company  
PO Box 4416  
Houston TX 77210-4416

August 10, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 08/03/2013

Group Number: 1409020

SDG: PEJ99

PO Number: ARCADIS

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample DescriptionLancaster Labs (LL) #

|                                               |         |
|-----------------------------------------------|---------|
| WS-014(1.5-2.0)080213 Filt Grab Surface Water | 7149722 |
| WS-014(5.5-6.0)080213 Filt Grab Surface Water | 7149723 |
| WS-012(1.5-2.0)080213 Filt Grab Surface Water | 7149724 |
| WS-012(5.0-5.5)080213 Filt Grab Surface Water | 7149725 |
| WS-010(1.5-2.0)080213 Filt Grab Surface Water | 7149726 |
| WS-010(3.5-4.0)080213 Filt Grab Surface Water | 7149727 |
| WS-005(Surface)080213 Filt Grab Surface Water | 7149728 |
| WS-011(1.5-2.0)080213 Filt Grab Surface Water | 7149729 |
| WS-011(5.0-5.5)080213 Filt Grab Surface Water | 7149730 |
| WS-003(Surface)080213 Filt Grab Surface Water | 7149731 |
| WS-018(Surface)080213 Filt Grab Surface Water | 7149732 |
| WS-002(Surface)080213 Filt Grab Surface Water | 7149733 |
| WS-007(0.5-1.0)080213 Filt Grab Surface Water | 7149734 |
| WS-006(0.5-1.0)080213 Filt Grab Surface Water | 7149735 |
| WS-001(0.5-1.0)080213 Filt Grab Surface Water | 7149736 |
| WS-EB-18-080213 Filt Grab Water               | 7149737 |
| DUP-WS-65-080213 Filt Grab Surface Water      | 7149738 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      ARCADIS

COPY TO

Attn: Stephen Barrick

ELECTRONIC      ARCADIS

COPY TO

Attn: Lyndi Mott

ELECTRONIC      ExxonMobil

COPY TO

Attn: Michael J. Firth

|                       |            |                          |
|-----------------------|------------|--------------------------|
| ELECTRONIC<br>COPY TO | ARCADIS    | Attn: Emily Leamer       |
| ELECTRONIC<br>COPY TO | ARCADIS    | Attn: Rhiannon Parmalee  |
| ELECTRONIC<br>COPY TO | ARCADIS    | Attn: Jamie Pritchard    |
| ELECTRONIC<br>COPY TO | ExxonMobil | Attn: Michael L Sixsmith |
| ELECTRONIC<br>COPY TO | ExxonMobil | Attn: Julie Foster       |
| ELECTRONIC<br>COPY TO | ExxonMobil | Attn: Carl Wideman       |

Respectfully Submitted,



Katherine A. Klinefelter  
Principal Specialist

(717) 556-7256

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Project Name: Mayflower, AR Pipeline Incident  
LLI Group #: 1409020

**General Comments:**

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

**Analysis Specific Comments:**

No additional comments are necessary.

Sample Description: WS-014(1.5-2.0)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149722  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 08:10 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F2141 SDG#: PEJ99-01

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0116             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | N.D.               | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:04       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:04       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:04       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:04       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:04       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:04       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:04       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:04       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:04       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 06:30       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

Sample Description: WS-014(5.5-6.0)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149723  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 08:20 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F2145 SDG#: PEJ99-02

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0142             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | 0.0019 J           | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:08       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:08       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:08       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:08       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:08       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:08       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:08       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:08       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:08       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 06:32       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

Sample Description: WS-012(1.5-2.0)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149724  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 08:30 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F2121 SDG#: PEJ99-03

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0077             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | 0.0016 J           | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:18       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:18       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:18       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:18       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:18       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:18       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:18       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:18       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:18       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 06:34       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

Sample Description: WS-012(5.0-5.5)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149725  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 08:40 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F2125 SDG#: PEJ99-04

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0118             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | N.D.               | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:22       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:22       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:22       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:22       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:22       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:22       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:22       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:22       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:22       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 06:36       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

Sample Description: WS-010(1.5-2.0)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149726  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 08:50 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F2101 SDG#: PEJ99-05

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0121             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | N.D.               | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:26       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:26       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:26       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:26       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:26       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:26       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:26       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:26       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:26       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 06:38       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result



Sample Description: WS-010(3.5-4.0)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149727  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 09:00 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F2103 SDG#: PEJ99-06

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0126             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | N.D.               | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:29       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:29       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:29       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:29       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:29       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:29       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:29       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:29       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:29       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 06:40       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

Sample Description: WS-005(Surface)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149728  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 09:30 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F205S SDG#: PEJ99-07

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0112             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | N.D.               | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:33       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:33       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:33       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:33       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:33       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:33       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:33       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:33       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:33       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 06:42       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

Sample Description: WS-011(1.5-2.0)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149729  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 10:00 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F2111 SDG#: PEJ99-08

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0092             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | N.D.               | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:36       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:36       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:36       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:36       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:36       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:36       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:36       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:36       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:36       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 06:44       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

Sample Description: WS-011(5.0-5.5)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149730  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 10:10 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F2115 SDG#: PEJ99-09

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0121             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | N.D.               | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:40       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:40       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:40       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:40       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:40       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:40       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:40       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:40       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:40       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 06:46       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

Sample Description: WS-003(Surface)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149731  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 10:20 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F203S SDG#: PEJ99-10

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0114             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | N.D.               | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:44       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:44       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:44       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:44       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:44       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:44       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:44       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:44       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:44       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 06:52       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

Sample Description: WS-018(Surface)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149732  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 10:30 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F218S SDG#: PEJ99-11

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0172             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | N.D.               | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:47       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:47       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:47       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:47       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:47       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:47       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:47       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:47       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:47       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 07:00       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

Sample Description: WS-002(Surface)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149733  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 10:40 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F202S SDG#: PEJ99-12

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0108             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | 0.0017 J           | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:51       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:51       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:51       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:51       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:51       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:51       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:51       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:51       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 23:51       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 07:02       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

Sample Description: WS-007(0.5-1.0)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149734  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 10:50 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F2070 SDG#: PEJ99-13

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0198             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | 0.0023 J           | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 22:42       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 22:42       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/09/2013 22:42       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 22:42       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/09/2013 22:42       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 22:42       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 22:42       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/09/2013 22:42       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/09/2013 22:42       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 07:04       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result



Sample Description: WS-006(0.5-1.0)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149735  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 09:10 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F2060 SDG#: PEJ99-14

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0190             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | N.D.               | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:02       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:02       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:02       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:02       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:02       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:02       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:02       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:02       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:02       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 07:07       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

Sample Description: WS-001(0.5-1.0)080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149736  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 11:00 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F2010 SDG#: PEJ99-15

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0150             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | N.D.               | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:05       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:05       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:05       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:05       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:05       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:05       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:05       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:05       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:05       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 07:09       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

Sample Description: WS-EB-18-080213 Filt Grab Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149737  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 12:30 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F2E18 SDG#: PEJ99-16EB

| CAT No.                 | Analysis Name | CAS Number             | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               |                        |                    |                                     |                                   |                 |
| 07035                   | Arsenic       | SW-846 6010B 7440-38-2 | mg/l N.D.          | mg/l 0.0068                         | mg/l 0.0200                       | 1               |
| 07046                   | Barium        | 7440-39-3              | N.D.               | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9              | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3              | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1              | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0              | N.D.               | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2              | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4              | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2              | N.D.               | 0.0020                              | 0.0050                            | 1               |
| <b>SW-846 7470A</b>     |               |                        |                    |                                     |                                   |                 |
| 00259                   | Mercury       | 7439-97-6              | mg/l N.D.          | mg/l 0.000060                       | mg/l 0.00020                      | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:09       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:09       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:09       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:09       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:09       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:09       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:09       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:09       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:09       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 07:11       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

Sample Description: DUP-WS-65-080213 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7149738  
LL Group # 1409020  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/02/2013 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/03/2013 08:55

PO Box 4416

Reported: 08/10/2013 05:29

Houston TX 77210-4416

F2D65 SDG#: PEJ99-17FD\*

| CAT No.                 | Analysis Name | CAS Number          | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|-------------------------|---------------|---------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| <b>Metals Dissolved</b> |               | <b>SW-846 6010B</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 07035                   | Arsenic       | 7440-38-2           | N.D.               | 0.0068                              | 0.0200                            | 1               |
| 07046                   | Barium        | 7440-39-3           | 0.0158             | 0.00033                             | 0.0050                            | 1               |
| 07049                   | Cadmium       | 7440-43-9           | N.D.               | 0.00076                             | 0.0050                            | 1               |
| 07051                   | Chromium      | 7440-47-3           | N.D.               | 0.0016                              | 0.0150                            | 1               |
| 07055                   | Lead          | 7439-92-1           | N.D.               | 0.0047                              | 0.0150                            | 1               |
| 07061                   | Nickel        | 7440-02-0           | N.D.               | 0.0015                              | 0.0100                            | 1               |
| 07036                   | Selenium      | 7782-49-2           | N.D.               | 0.0084                              | 0.0200                            | 1               |
| 07066                   | Silver        | 7440-22-4           | N.D.               | 0.0021                              | 0.0050                            | 1               |
| 07071                   | Vanadium      | 7440-62-2           | N.D.               | 0.0020                              | 0.0050                            | 1               |
|                         |               | <b>SW-846 7470A</b> | <b>mg/l</b>        | <b>mg/l</b>                         | <b>mg/l</b>                       |                 |
| 00259                   | Mercury       | 7439-97-6           | N.D.               | 0.000060                            | 0.00020                           | 1               |

## General Sample Comments

This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name                 | Method       | Trial# | Batch#       | Analysis Date and Time | Analyst              | Dilution Factor |
|---------|-------------------------------|--------------|--------|--------------|------------------------|----------------------|-----------------|
| 07035   | Arsenic                       | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:12       | John W Yanzuk II     | 1               |
| 07046   | Barium                        | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:12       | John W Yanzuk II     | 1               |
| 07049   | Cadmium                       | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:12       | John W Yanzuk II     | 1               |
| 07051   | Chromium                      | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:12       | John W Yanzuk II     | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:12       | John W Yanzuk II     | 1               |
| 07061   | Nickel                        | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:12       | John W Yanzuk II     | 1               |
| 07036   | Selenium                      | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:12       | John W Yanzuk II     | 1               |
| 07066   | Silver                        | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:12       | John W Yanzuk II     | 1               |
| 07071   | Vanadium                      | SW-846 6010B | 1      | 132171848001 | 08/10/2013 00:12       | John W Yanzuk II     | 1               |
| 00259   | Mercury                       | SW-846 7470A | 1      | 132175713001 | 08/06/2013 07:17       | Damary Valentin      | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 132171848001 | 08/05/2013 03:00       | Annamaria Stipkovits | 1               |
| 05713   | WW SW846 Hg Digest            | SW-846 7470A | 1      | 132175713001 | 08/05/2013 15:25       | Nelli S Markaryan    | 1               |

\*=This limit was used in the evaluation of the final result

**Quality Control Summary**Client Name: ExxonMobil  
Reported: 08/10/13 at 05:29 AM

Group Number: 1409020

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

**Laboratory Compliance Quality Control**

| <u>Analysis Name</u>       | <u>Blank Result</u>               | <u>Blank MDL**</u> | <u>Blank LOQ</u> | <u>Report Units</u> | <u>LCS %REC</u> | <u>LCSD %REC</u> | <u>LCS/LCSD Limits</u> | <u>RPD</u> | <u>RPD Max</u> |
|----------------------------|-----------------------------------|--------------------|------------------|---------------------|-----------------|------------------|------------------------|------------|----------------|
| Batch number: 132171848001 | Sample number(s): 7149722-7149738 |                    |                  |                     |                 |                  |                        |            |                |
| Arsenic                    | N.D.                              | 0.0068             | 0.0200           | mg/l                | 98              |                  | 90-113                 |            |                |
| Barium                     | N.D.                              | 0.00033            | 0.0050           | mg/l                | 99              |                  | 90-110                 |            |                |
| Cadmium                    | N.D.                              | 0.00076            | 0.0050           | mg/l                | 99              |                  | 90-112                 |            |                |
| Chromium                   | N.D.                              | 0.0016             | 0.0150           | mg/l                | 102             |                  | 90-110                 |            |                |
| Lead                       | N.D.                              | 0.0047             | 0.0150           | mg/l                | 95              |                  | 88-110                 |            |                |
| Nickel                     | N.D.                              | 0.0015             | 0.0100           | mg/l                | 101             |                  | 90-111                 |            |                |
| Selenium                   | N.D.                              | 0.0084             | 0.0200           | mg/l                | 94              |                  | 80-120                 |            |                |
| Silver                     | N.D.                              | 0.0021             | 0.0050           | mg/l                | 110             |                  | 80-120                 |            |                |
| Vanadium                   | N.D.                              | 0.0020             | 0.0050           | mg/l                | 99              |                  | 90-110                 |            |                |
| Batch number: 132175713001 | Sample number(s): 7149722-7149738 |                    |                  |                     |                 |                  |                        |            |                |
| Mercury                    | N.D.                              | 0.00006            | 0.00020          | mg/l                | 85              |                  | 80-120                 |            |                |
|                            |                                   | 0                  |                  |                     |                 |                  |                        |            |                |

**Sample Matrix Quality Control**

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

| <u>Analysis Name</u>       | <u>MS %REC</u>                                                | <u>MSD %REC</u> | <u>MS/MSD Limits</u> | <u>RPD</u> | <u>RPD MAX</u> | <u>BKG Conc</u> | <u>DUP Conc</u> | <u>DUP RPD</u> | <u>Dup RPD Max</u> |
|----------------------------|---------------------------------------------------------------|-----------------|----------------------|------------|----------------|-----------------|-----------------|----------------|--------------------|
| Batch number: 132171848001 | Sample number(s): 7149722-7149738 UNSPK: 7149734 BKG: 7149734 |                 |                      |            |                |                 |                 |                |                    |
| Arsenic                    | 101                                                           | 101             | 81-123               | 1          | 20             | N.D.            | N.D.            | 0 (1)          | 20                 |
| Barium                     | 100                                                           | 100             | 78-118               | 0          | 20             | 0.0198          | 0.0202          | 2 (1)          | 20                 |
| Cadmium                    | 99                                                            | 99              | 83-116               | 0          | 20             | N.D.            | N.D.            | 0 (1)          | 20                 |
| Chromium                   | 101                                                           | 102             | 81-120               | 1          | 20             | N.D.            | N.D.            | 0 (1)          | 20                 |
| Lead                       | 97                                                            | 97              | 75-125               | 0          | 20             | N.D.            | N.D.            | 0 (1)          | 20                 |
| Nickel                     | 102                                                           | 102             | 86-115               | 0          | 20             | 0.0023 J        | 0.0024 J        | 5 (1)          | 20                 |
| Selenium                   | 94                                                            | 95              | 75-125               | 1          | 20             | N.D.            | N.D.            | 0 (1)          | 20                 |
| Silver                     | 110                                                           | 109             | 75-125               | 1          | 20             | N.D.            | N.D.            | 0 (1)          | 20                 |
| Vanadium                   | 100                                                           | 100             | 90-111               | 0          | 20             | N.D.            | N.D.            | 0 (1)          | 20                 |
| Batch number: 132175713001 | Sample number(s): 7149722-7149738 UNSPK: 7149731 BKG: 7149731 |                 |                      |            |                |                 |                 |                |                    |
| Mercury                    | 81                                                            | 82              | 80-120               | 2          | 20             | N.D.            | N.D.            | 0 (1)          | 20                 |

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

# ExxonMobil Analysis Request/Chain of Custody



Lancaster  
Laboratories

Acct. # 14739

For Lancaster Laboratories use only  
Group # 1409020 Sample # 7149722-38  
Instructions on reverse side correspond with circled numbers.

1 of 2

| 1 Client Information                                                                                                                                                                                        |        |             |   | 4 Matrix                                                                                                                                                                                                                  |           |      |       | 5 Analyses Requested                                                                                                                                                                                                                     |                       |                    |      |                           |             |                  |            |                    |                  |  |  | SCR#: _____                                                              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|------|---------------------------|-------------|------------------|------------|--------------------|------------------|--|--|--------------------------------------------------------------------------|--|
| Preservation Code                                                                                                                                                                                           |        |             |   | Preservation Codes                                                                                                                                                                                                        |           |      |       |                                                                                                                                                                                                                                          |                       |                    |      |                           |             |                  |            |                    |                  |  |  |                                                                          |  |
| Facility #/SID<br><u>Mayflower Pipeline Incident</u>                                                                                                                                                        |        |             |   | <input type="checkbox"/> Sediment<br><input type="checkbox"/> Ground<br><input checked="" type="checkbox"/> Surface<br><input type="checkbox"/> Potable<br><input type="checkbox"/> NPDES<br><input type="checkbox"/> Air |           |      |       | <div style="display: flex; justify-content: space-between;"> <div>           H = HCl<br/>N = HNO<sub>3</sub><br/>S = H<sub>2</sub>SO<sub>4</sub> </div> <div>           T = Thiosulfate<br/>B = NaOH<br/>O = Other         </div> </div> |                       |                    |      |                           |             |                  |            |                    |                  |  |  | 6 Remarks<br><u>Lab to filter and preserve class metals upon receipt</u> |  |
| Site Address<br><u>Mayflower, AR</u><br>ExxonMobil PM<br><u>Scott Bushroe</u><br>Consultant/Office<br><u>Arcadis</u><br>Consultant PM<br><u>Steve Parrick</u><br>Sampler<br><u>Helen Allen / Jo Waldron</u> |        |             |   |                                                                                                                                                                                                                           |           |      |       | Cost Center/AFE<br>Consultant Phone #<br><u>919 202 6799</u>                                                                                                                                                                             |                       |                    |      |                           |             |                  |            |                    |                  |  |  |                                                                          |  |
| 2 Sample Identification                                                                                                                                                                                     |        | 3 Collected |   | Grab                                                                                                                                                                                                                      | Composite | Soil | Water | Oil                                                                                                                                                                                                                                      | Total # of Containers | Analyses Requested |      |                           |             |                  |            |                    |                  |  |  |                                                                          |  |
| Date                                                                                                                                                                                                        | Time   |             |   |                                                                                                                                                                                                                           |           |      |       |                                                                                                                                                                                                                                          |                       | VOCs               | PAHs | PCRA Metals               | Diss Metals | HEM Oil & Grease |            |                    |                  |  |  |                                                                          |  |
| WS-014(1.5-2.0)080213                                                                                                                                                                                       | 8/2/13 | 810         | X |                                                                                                                                                                                                                           |           |      | X     |                                                                                                                                                                                                                                          | 9                     | X                  | X    | X                         | X           | X                |            |                    |                  |  |  |                                                                          |  |
| WS-014(5.5-6.0)080213                                                                                                                                                                                       |        | 820         | X |                                                                                                                                                                                                                           |           |      | X     |                                                                                                                                                                                                                                          | 9                     | X                  | X    | X                         | X           | X                |            |                    |                  |  |  |                                                                          |  |
| WS-012(1.5-2.0)080213                                                                                                                                                                                       |        | 830         | X |                                                                                                                                                                                                                           |           |      | X     |                                                                                                                                                                                                                                          | 9                     | X                  | X    | X                         | X           | X                |            |                    |                  |  |  |                                                                          |  |
| WS-012(5.0-5.5)080213                                                                                                                                                                                       |        | 840         | X |                                                                                                                                                                                                                           |           |      | X     |                                                                                                                                                                                                                                          | 9                     | X                  | X    | X                         | X           | X                |            |                    |                  |  |  |                                                                          |  |
| WS-010(1.5-2.0)080213                                                                                                                                                                                       |        | 850         | X |                                                                                                                                                                                                                           |           |      | X     |                                                                                                                                                                                                                                          | 9                     | X                  | X    | X                         | X           | X                |            |                    |                  |  |  |                                                                          |  |
| WS-010(3.5-4.0)080213                                                                                                                                                                                       |        | 900         | X |                                                                                                                                                                                                                           |           |      | X     |                                                                                                                                                                                                                                          | 9                     | X                  | X    | X                         | X           | X                |            |                    |                  |  |  |                                                                          |  |
| WS-005(surface)080213                                                                                                                                                                                       |        | 930         | X |                                                                                                                                                                                                                           |           |      | X     |                                                                                                                                                                                                                                          | 9                     | X                  | X    | X                         | X           | X                |            |                    |                  |  |  |                                                                          |  |
| WS-011(1.5-2.0)080213                                                                                                                                                                                       |        | 1000        | X |                                                                                                                                                                                                                           |           |      | X     |                                                                                                                                                                                                                                          | 9                     | X                  | X    | X                         | X           | X                |            |                    |                  |  |  |                                                                          |  |
| WS-011(5.0-5.5)080213                                                                                                                                                                                       |        | 1010        | X |                                                                                                                                                                                                                           |           |      | X     |                                                                                                                                                                                                                                          | 9                     | X                  | X    | X                         | X           | X                |            |                    |                  |  |  |                                                                          |  |
| WS-003(surface)080213                                                                                                                                                                                       |        | 1020        | X |                                                                                                                                                                                                                           |           |      | X     |                                                                                                                                                                                                                                          | 9                     | X                  | X    | X                         | X           | X                |            |                    |                  |  |  |                                                                          |  |
| WS-018(surface)080213                                                                                                                                                                                       |        | 1030        | X |                                                                                                                                                                                                                           |           |      | X     |                                                                                                                                                                                                                                          | 9                     | X                  | X    | X                         | X           | X                |            |                    |                  |  |  |                                                                          |  |
| WS-002(surface)080213                                                                                                                                                                                       |        | 1040        | X |                                                                                                                                                                                                                           |           |      | X     |                                                                                                                                                                                                                                          | 9                     | X                  | X    | X                         | X           | X                |            |                    |                  |  |  |                                                                          |  |
| 7 Turnaround Time Requested (TAT) (please circle)                                                                                                                                                           |        |             |   | Relinquished by <u>HV am ole</u>                                                                                                                                                                                          |           |      |       | Date <u>8/2/13</u>                                                                                                                                                                                                                       | Time <u>1600</u>      | Received by _____  |      |                           |             | Date _____       | Time _____ | 9                  |                  |  |  |                                                                          |  |
| Standard <u>5 day</u> 4 day                                                                                                                                                                                 |        |             |   | Relinquished by _____                                                                                                                                                                                                     |           |      |       | Date _____                                                                                                                                                                                                                               | Time _____            | Received by _____  |      |                           |             | Date _____       | Time _____ |                    |                  |  |  |                                                                          |  |
| 72 hour 48 hour 24 hour                                                                                                                                                                                     |        |             |   | Relinquished by _____                                                                                                                                                                                                     |           |      |       | Date _____                                                                                                                                                                                                                               | Time _____            | Received by _____  |      |                           |             | Date _____       | Time _____ |                    |                  |  |  |                                                                          |  |
|                                                                                                                                                                                                             |        |             |   | Relinquished by _____                                                                                                                                                                                                     |           |      |       | Date _____                                                                                                                                                                                                                               | Time _____            | Received by _____  |      |                           |             | Date _____       | Time _____ |                    |                  |  |  |                                                                          |  |
| 8 Data Package (circle if required)                                                                                                                                                                         |        |             |   | EDD (circle if required)                                                                                                                                                                                                  |           |      |       | Relinquished by Commercial Carrier                                                                                                                                                                                                       |                       |                    |      | Received by <u>Robtch</u> |             |                  |            | Date <u>8/3/13</u> | Time <u>0855</u> |  |  |                                                                          |  |
| Type I - Full<br>Type VI (Raw Data)<br>NJ Reduced<br>Other _____                                                                                                                                            |        |             |   | Locus EIM (default)<br>Other _____                                                                                                                                                                                        |           |      |       | UPS <u>X</u> FedEx _____ Other _____                                                                                                                                                                                                     |                       |                    |      |                           |             |                  |            |                    |                  |  |  |                                                                          |  |
|                                                                                                                                                                                                             |        |             |   | Temperature Upon Receipt <u>08-3-3°C</u>                                                                                                                                                                                  |           |      |       | Custody Seals Intact? <u>yes</u>                                                                                                                                                                                                         |                       |                    |      | No                        |             |                  |            |                    |                  |  |  |                                                                          |  |



Acct. # 14739

For Lancaster Laboratories use only  
Group # 1409020 Sample # 7149722-38  
Instructions on reverse side correspond with circled numbers.

2 of 2

[illegible]

Issued by Dept. 40 Management  
7053.01

Environmental Sample Administration  
Receipt Documentation LogClient/Project: ArcadisShipping Container Sealed: YES NODate of Receipt: 8/3/13Custody Seal Present \*: YES NOTime of Receipt: 0855\* Custody seal was intact unless otherwise noted in the  
discrepancy sectionSource Code: 60Package: Chilled Not Chilled

Temperature of Shipping Containers

| Cooler # | Thermometer ID | Temperature (°C) | Temp Bottle (TB) or Surface Temp (ST) | Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP) | Ice Present? Y/N | Loose (L) Bagged Ice (B) or NA | Comments |
|----------|----------------|------------------|---------------------------------------|------------------------------------------------|------------------|--------------------------------|----------|
| 1        | DT121          | 1.5              | TB                                    | WI                                             | y                | B                              |          |
| 2        |                | 1.7              |                                       |                                                |                  |                                |          |
| 3        |                | 1.4              |                                       |                                                |                  |                                |          |
| 4        |                | 1.5              |                                       |                                                |                  |                                |          |
| 5        |                | 3.3              |                                       |                                                |                  |                                |          |
| 6        |                | 0.8              |                                       |                                                |                  |                                |          |

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Pat G 3472 Date/Time: 8/3/13 1010

Issued by Dept. 6042 Management



# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

|                         |                                                                                                                                                                                                                                                                                                                                                             |                 |                                  |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------|
| <b>RL</b>               | Reporting Limit                                                                                                                                                                                                                                                                                                                                             | <b>BMQL</b>     | Below Minimum Quantitation Level |
| <b>N.D.</b>             | none detected                                                                                                                                                                                                                                                                                                                                               | <b>MPN</b>      | Most Probable Number             |
| <b>TNTC</b>             | Too Numerous To Count                                                                                                                                                                                                                                                                                                                                       | <b>CP Units</b> | cobalt-chloroplatinate units     |
| <b>IU</b>               | International Units                                                                                                                                                                                                                                                                                                                                         | <b>NTU</b>      | nephelometric turbidity units    |
| <b>umhos/cm</b>         | micromhos/cm                                                                                                                                                                                                                                                                                                                                                | <b>ng</b>       | nanogram(s)                      |
| <b>C</b>                | degrees Celsius                                                                                                                                                                                                                                                                                                                                             | <b>F</b>        | degrees Fahrenheit               |
| <b>meq</b>              | milliequivalents                                                                                                                                                                                                                                                                                                                                            | <b>lb.</b>      | pound(s)                         |
| <b>g</b>                | gram(s)                                                                                                                                                                                                                                                                                                                                                     | <b>kg</b>       | kilogram(s)                      |
| <b>µg</b>               | microgram(s)                                                                                                                                                                                                                                                                                                                                                | <b>mg</b>       | milligram(s)                     |
| <b>mL</b>               | milliliter(s)                                                                                                                                                                                                                                                                                                                                               | <b>L</b>        | liter(s)                         |
| <b>m3</b>               | cubic meter(s)                                                                                                                                                                                                                                                                                                                                              | <b>µL</b>       | microliter(s)                    |
|                         |                                                                                                                                                                                                                                                                                                                                                             | <b>pg/L</b>     | picogram/liter                   |
| <b>&lt;</b>             | less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.                                                                                                                                                                                   |                 |                                  |
| <b>&gt;</b>             | greater than                                                                                                                                                                                                                                                                                                                                                |                 |                                  |
| <b>ppm</b>              | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas. |                 |                                  |
| <b>ppb</b>              | parts per billion                                                                                                                                                                                                                                                                                                                                           |                 |                                  |
| <b>Dry weight basis</b> | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.                                                                                                  |                 |                                  |

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

| Organic Qualifiers |                                                                           | Inorganic Qualifiers |                                                         |
|--------------------|---------------------------------------------------------------------------|----------------------|---------------------------------------------------------|
| <b>A</b>           | TIC is a possible aldol-condensation product                              | <b>B</b>             | Value is $<$ CRDL, but $\geq$ IDL                       |
| <b>B</b>           | Analyte was also detected in the blank                                    | <b>E</b>             | Estimated due to interference                           |
| <b>C</b>           | Pesticide result confirmed by GC/MS                                       | <b>M</b>             | Duplicate injection precision not met                   |
| <b>D</b>           | Compound quantitated on a diluted sample                                  | <b>N</b>             | Spike sample not within control limits                  |
| <b>E</b>           | Concentration exceeds the calibration range of the instrument             | <b>S</b>             | Method of standard additions (MSA) used for calculation |
| <b>N</b>           | Presumptive evidence of a compound (TICs only)                            | <b>U</b>             | Compound was not detected                               |
| <b>P</b>           | Concentration difference between primary and confirmation columns $>25\%$ | <b>W</b>             | Post digestion spike out of control limits              |
| <b>U</b>           | Compound was not detected                                                 | <b>*</b>             | Duplicate analysis not within control limits            |
| <b>X,Y,Z</b>       | Defined in case narrative                                                 | <b>+</b>             | Correlation coefficient for MSA $<0.995$                |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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