ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

October 16, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 10/10/2013
Group Number: 1425290
SDG: PEM06
PO Number: B0086003.1301
State of Sample Origin: AR

| Client Sample Description | Lancaster Labs (LL) # |
|---|---|
| WS-014(1.5-2.0)100913 Filt Grab Surface Water | 7231443 |
| WS-014(5.5-6.0)100913 Filt Grab Surface Water | 7231444 |
| WS-012(1.5-2.0)100913 Filt Grab Surface Water | 7231445 |
| WS-012(5.0-5.5)100913 Filt Grab Surface Water | 7231446 |
| WS-010(1.5-2.0)100913 Filt Grab Surface Water | 7231447 |
| WS-010(3.5-4.0)100913 Filt Grab Surface Water | 7231448 |
| WS-006(0.5-1.0)100913 Filt Grab Surface Water | 7231449 |
| WS-006(0.5-1.0)100913MS Filt Grab Surface Water | 7231450 |
| WS-006(0.5-1.0)100913MSD Filt Grab Surface Water | 7231451 |
| WS-006(0.5-1.0)100913DUP Filt Grab Surface Water | 7231452 |
| WS-005(Surface)100913 Filt Grab Surface Water | 7231453 |
| WS-011(1.5-2.0)100913 Filt Grab Surface Water | 7231454 |
| WS-011(5.0-5.5)100913 Filt Grab Surface Water | 7231455 |
| WS-002(Surface)100913 Filt Grab Surface Water | 7231456 |
| WS-018(Surface)100913 Filt Grab Surface Water | 7231457 |
| WS-003(Surface)100913 Filt Grab Surface Water | 7231458 |
| WS-007(0.5-1.0)100913 Filt Grab Surface Water | 7231459 |
| WS-001(0.5-1.0)100913 Filt Grab Surface Water | 7231460 |
| WS-EB-86-100913 Filt Grab Water | 7231461 |

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

| | | |
|---|---|---|
| ELECTRONIC COPY TO | ARCADIS | Attn: Stephen Barrick |
| ELECTRONIC COPY TO | ARCADIS | Attn: Lyndi Mott |
| ELECTRONIC | ExxonMobil | Attn: Michael J. Firth |

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

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1425290

**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 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)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231443**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 08:30 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F141 SDG#: PEM06-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0202 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 00:03 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:03 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:03 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:03 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:03 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:03 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:03 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:03 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:03 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:08 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-014(5.5-6.0)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231444**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 08:40 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F145 SDG#: PEM06-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0209 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 00:07 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:07 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:07 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:07 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:07 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:07 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:07 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:07 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:07 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:14 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-012(1.5-2.0)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231445**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 08:55 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F121 SDG#: PEM06-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0186 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 00:18 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:18 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:18 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:18 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:18 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:18 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:18 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:18 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:18 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:16 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-012(5.0-5.5)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231446**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 09:05 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F125 SDG#: PEM06-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0186 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |
| 07051 | Chromium | 7440-47-3 | 0.0091 J | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 00:22 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:22 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:22 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:22 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:22 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:22 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:22 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:22 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:22 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:18 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-010(1.5-2.0)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231447**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 09:40 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F101 SDG#: PEM06-05

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0205 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 00:26 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:26 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:26 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:26 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:26 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:26 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:26 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:26 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:26 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:20 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-010(3.5-4.0)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231448**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 09:50 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F103 SDG#: PEM06-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0203 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 00:30 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:30 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:30 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:30 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:30 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:30 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:30 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:30 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:30 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:22 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-006(0.5-1.0)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231449**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 09:20 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F060 SDG#: PEM06-07BKG

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0186 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/15/2013 23:39 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:39 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:39 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:39 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:39 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:39 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:39 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:39 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:39 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:24 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-006(0.5-1.0)100913MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231450**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 09:20 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F060 SDG#: PEM06-07MS

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | 0.153 | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 2.00 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | 0.0507 | 0.00076 | 0.0050 | 1 |
| 07051 | Chromium | 7440-47-3 | 0.203 | 0.0016 | 0.0150 | 1 |
| 07055 | Lead | 7439-92-1 | 0.158 | 0.0047 | 0.0150 | 1 |
| 07061 | Nickel | 7440-02-0 | 0.517 | 0.0015 | 0.0100 | 1 |
| 07036 | Selenium | 7782-49-2 | 0.153 | 0.0084 | 0.0200 | 1 |
| 07066 | Silver | 7440-22-4 | 0.0447 | 0.0021 | 0.0050 | 1 |
| 07071 | Vanadium | 7440-62-2 | 0.516 | 0.0020 | 0.0050 | 1 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 00259 | Mercury | 7439-97-6 | 0.0011 | 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 | 132831848003 | 10/15/2013 23:50 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:50 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:50 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:50 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:50 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:50 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:50 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:50 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:50 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:28 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-006(0.5-1.0)100913MSD Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231451**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 09:20 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F060 SDG#: PEM06-07MSD

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | 0.152 | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 1.97 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | 0.0505 | 0.00076 | 0.0050 | 1 |
| 07051 | Chromium | 7440-47-3 | 0.201 | 0.0016 | 0.0150 | 1 |
| 07055 | Lead | 7439-92-1 | 0.157 | 0.0047 | 0.0150 | 1 |
| 07061 | Nickel | 7440-02-0 | 0.515 | 0.0015 | 0.0100 | 1 |
| 07036 | Selenium | 7782-49-2 | 0.151 | 0.0084 | 0.0200 | 1 |
| 07066 | Silver | 7440-22-4 | 0.0435 | 0.0021 | 0.0050 | 1 |
| 07071 | Vanadium | 7440-62-2 | 0.508 | 0.0020 | 0.0050 | 1 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 00259 | Mercury | 7439-97-6 | 0.0011 | 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 | 132831848003 | 10/15/2013 23:54 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:54 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:54 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:54 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:54 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:54 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:54 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:54 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:54 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:30 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-006(0.5-1.0)100913DUP Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231452**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 09:20 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F060 SDG#: PEM06-07DUP

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0186 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/15/2013 23:46 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:46 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:46 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:46 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:46 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:46 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:46 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:46 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/15/2013 23:46 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:26 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-005(Surface)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231453**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 10:30 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F05S SDG#: PEM06-08

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0160 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 00:34 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:34 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:34 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:34 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:34 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:34 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:34 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:34 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:34 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:32 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-011(1.5-2.0)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231454**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 10:55 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F111 SDG#: PEM06-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0212 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 00:38 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:38 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:38 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:38 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:38 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:38 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:38 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:38 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:38 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:38 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-011(5.0-5.5)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231455**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 11:05 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F115 SDG#: PEM06-10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0216 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 00:42 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:42 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:42 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:42 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:42 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:42 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:42 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:42 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:42 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:40 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-002(Surface)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231456**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 11:25 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F02S SDG#: PEM06-11

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0207 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 00:46 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:46 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:46 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:46 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:46 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:46 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:46 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:46 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:46 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:42 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-018(Surface)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231457**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 11:50 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F18S SDG#: PEM06-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0249 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 00:50 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:50 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:50 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:50 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:50 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:50 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:50 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:50 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:50 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:44 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-003(Surface)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231458**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 12:00 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F03S SDG#: PEM06-13

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0155 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 00:54 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:54 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:54 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:54 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:54 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:54 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:54 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:54 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 00:54 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:46 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-007(0.5-1.0)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231459**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 12:30 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F070 SDG#: PEM06-14

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0221 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 01:06 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:06 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:06 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:06 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:06 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:06 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:06 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:06 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:06 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:48 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-001(0.5-1.0)100913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231460**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 12:40 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

9F010 SDG#: PEM06-15

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 01:10 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:10 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:10 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:10 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:10 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:10 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:10 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:10 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:10 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:50 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

**Sample Description:** WS-EB-86-100913 Filt Grab Water
Mayflower, AR
Pipeline Incident

**LL Sample # WW 7231461**
**LL Group # 1425290**
**Account # 14739**

**Project Name: Mayflower, AR Pipeline Incident**

Collected: 10/09/2013 14:00 by RL

Submitted: 10/10/2013 09:50
Reported: 10/16/2013 05:04

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

FEB86 SDG#: PEM06-16EB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **mg/l** | **mg/l** | **mg/l** | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 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 |
| | **SW-846 7470A** | | **mg/l** | **mg/l** | **mg/l** | |
| 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 | 132831848003 | 10/16/2013 01:14 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:14 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:14 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:14 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:14 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:14 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:14 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:14 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132831848003 | 10/16/2013 01:14 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132835713004 | 10/13/2013 10:52 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132831848003 | 10/10/2013 23:30 | Annamaria Stipkovits | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132835713004 | 10/11/2013 16:05 | Nelli S Markaryan | 1 |

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

# Quality Control Summary

Client Name: ExxonMobil c/o Arcadis Group Number: 1425290
Reported: 10/16/13 at 05:04 AM

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

| Analysis Name | Blank Result | Blank MDL** | Blank LOQ | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 132831848003 | Sample number(s): 7231443-7231461 | | | | | | | | |
| Arsenic | N.D. | 0.0068 | 0.0200 | mg/l | 99 | | 90-113 | | |
| Barium | N.D. | 0.00033 | 0.0050 | mg/l | 99 | | 90-110 | | |
| Cadmium | N.D. | 0.00076 | 0.0050 | mg/l | 101 | | 90-112 | | |
| Chromium | N.D. | 0.0016 | 0.0150 | mg/l | 100 | | 90-110 | | |
| Lead | N.D. | 0.0047 | 0.0150 | mg/l | 105 | | 88-110 | | |
| Nickel | N.D. | 0.0015 | 0.0100 | mg/l | 103 | | 90-111 | | |
| Selenium | N.D. | 0.0084 | 0.0200 | mg/l | 99 | | 80-120 | | |
| Silver | N.D. | 0.0021 | 0.0050 | mg/l | 88 | | 80-120 | | |
| Vanadium | N.D. | 0.0020 | 0.0050 | mg/l | 102 | | 90-110 | | |
| Batch number: 132835713004 | Sample number(s): 7231443-7231461 | | | | | | | | |
| Mercury | N.D. | 0.00006<br>0 | 0.00020 | mg/l | 109 | | 80-120 | | |

## 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

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 132831848003 | Sample number(s): 7231443-7231461 UNSPK: 7231449 BKG: 7231449 | | | | | | | | |
| Arsenic | 102 | 101 | 81-123 | 1 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Barium | 99 | 98 | 78-118 | 2 | 20 | 0.0186 | 0.0186 | 0 (1) | 20 |
| Cadmium | 101 | 101 | 83-116 | 0 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Chromium | 102 | 101 | 76-120 | 1 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Lead | 105 | 104 | 75-125 | 1 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Nickel | 103 | 103 | 86-115 | 0 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Selenium | 102 | 101 | 75-125 | 1 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Silver | 89 | 87 | 75-125 | 3 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Vanadium | 103 | 102 | 90-117 | 2 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Batch number: 132835713004 | Sample number(s): 7231443-7231461 UNSPK: 7231449 BKG: 7231449 | | | | | | | | |
| Mercury | 108 | 106 | 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

eurofins | Lancaster Laboratories Environmental

Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only Group # 1425290 Sample # 7231443-61

Instructions on reverse side correspond with circled numbers.

1 of 2

SCR#:

**1 Client Information**

Facility #/SID: Mayflower Pipeline Incident

Site Address: Mayflower, AR

ExxonMobil PM: Scott Bushroe

Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: Steve Barrick

Consultant Phone #: 919-302-6799

Sampler: Ryan Lewis / Clement Quartey-Papafio

**4 Matrix**: Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☒ Oil ☐ Air ☐

**5 Analyses Requested** — Preservation Code

| 2 Sample Identification | Collected Date | Collected Time | 3 Grab | Composite | Soil | Water | Oil | Total # of Containers | VOCs 8260B (H) | PAH 8270 SIM | RCRA Metals + hardness Ni, V, Ca, Mg (N) | Diss. Metals | HEM Oil & Grease (H) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WS-014(1.5-2.0)100913 | 10-9-13 | 0830 | X | | | X | | 9 | X | X | X | X | X | | | | | |
| WS-014(5.5-6.0)100913 | 10-9-13 | 0840 | X | | | X | | 9 | X | X | X | X | X | | | | | |
| WS-012(1.5-2.0)100913 | 10-9-13 | 0855 | X | | | X | | 9 | X | X | X | X | X | | | | | |
| WS-012(5.0-5.5)100913 | 10-9-13 | 0905 | X | | | X | | 9 | X | X | X | X | X | | | | | |
| WS-010(1.5-2.0)100913 | 10-9-13 | 0940 | X | | | X | | 9 | X | X | X | X | X | | | | | |
| WS-010(3.5-4.0)100913 | 10-9-13 | 0950 | X | | | X | | 9 | X | X | X | X | X | | | | | |
| WS-006(0.5-1.0)100913 | 10-9-13 | 0920 | X | | | X | | 9 | X | X | X | X | X | | | | | |
| WS-006(0.5-1.0)100913 MS/MSD | 10-9-13 | 0920 | X | | | X | | 18 | X | X | X | X | X | | | | | |
| WS-005(surface)100913 | 10-9-13 | 1030 | X | | | X | | 9 | X | X | X | X | X | | | | | |
| WS-011(1.5-2.0)100913 | 10-9-13 | 1055 | X | | | X | | 9 | X | X | X | X | X | | | | | |
| WS-011(5.0-5.5)100913 | 10-9-13 | 1105 | X | | | X | | 9 | X | X | X | X | X | | | | | |
| WS-002(surface)100913 | 10-9-13 | 1125 | X | | | X | | 9 | X | X | X | X | X | | | | | |

**Preservation Codes**: H = HCl, T = Thiosulfate, N = $HNO_3$, B = NaOH, S = $H_2SO_4$, O = Other

**6 Remarks**: Lab to filter and pressure diss metals upon receipt

**7 Turnaround Time Requested (TAT)** (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

**8 Data Package** (circle if required): Type I - Full; Type VI (Raw Data); NJ Reduced; Other _____

**EDD** (circle if required): Locus EIM (default); Other _____

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| [signature] | 10-9-13 | 1530 | | | |
| | | | | | |
| | | | | | |

Relinquished by Commercial Carrier: UPS X FedEx ____ Other ____

Received by: [signature] Date: 10/10/13 Time: 0850

Temperature Upon Receipt 0.3 - 2.6 °C

Custody Seals Intact? Yes No

**9**

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7053 0713

# ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only Group # 1425290 Sample # 7231443-61
Instructions on reverse side correspond with circled numbers.

2 of 2

**1 Client Information**

Facility #/SID: Mayflower Pipeline Incident
Site Address: Mayflower, AR
ExxonMobil PM: Scott Bushnoe
Cost Center/AFE:
Consultant/Office: ARCADIS
Consultant PM: Steve Barrick
Consultant Phone #: 919-302-6799
Sampler: Ryan Lewis / Clement Quartey-Papafio

**4 Matrix**: Soil ☐ Sediment ☐ Water ☐ Ground ☒ Surface ☐ Potable ☐ NPDES ☐ Oil ☐ Air ☐

**5 Analyses Requested** — Preservation Code

SCR#:

**Preservation Codes**
H = HCl; T = Thiosulfate; N = $HNO_3$; B = NaOH; S = $H_2SO_4$; O = Other

**6 Remarks**
Lab to filter and preserve diss. metals upon receipt

| 2 Sample Identification | Collected Date | Collected Time | 3 Grab | Composite | Total # of Containers | VOCs 8260B (H) | PAH 8270SIM | RCRA Metals + hardness (N) | Diss Metals (H) | HEM Oil & Grease |
|---|---|---|---|---|---|---|---|---|---|---|
| WS-018(surface)100913 | 10-9-13 | 1150 | X | | 9 | X | X | X | X | X |
| WS-003(surface)100913 | 10-9-13 | 1200 | X | | 9 | X | X | X | X | X |
| WS-007(0.5-1.0)100913 | 10-9-13 | 1230 | X | | 9 | X | X | X | X | X |
| WS-001(0.5-1.0)100913 | 10-9-13 | 1240 | X | | 9 | X | X | X | X | X |
| WS-EB-85-100913 | 10-9-13 | 1400 | X | | 7 | X | X | X | X | |
| WS-TB-172-100913 | 10-9-13 | — | X | | 2 | X | | | | |

**7 Turnaround Time Requested (TAT)** (please circle)
Standard | (5 day) | 4 day | 72 hour | 48 hour | 24 hour

**8 Data Package** (circle if required)
Type I - Full
Type VI (Raw Data)
NJ Reduced
Other

**EDD** (circle if required)
Locus EIM (default)
Other

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | 10-9-13 | 1530 | | | |
| | | | | | |
| | | | | | |
| Relinquished by Commercial Carrier: UPS X FedEx Other | | | Received by | Date 10/10/13 | Time 0950 |

Temperature Upon Receipt 0.3-2.6 °C

Custody Seals Intact? (Yes) No

**9**

eurofins | Lancaster Laboratories

# Environmental Sample Administration Receipt Documentation Log

1425290

**Client/Project:** Mayflower

**Date of Receipt:** 10/10/13

**Time of Receipt:** 0950

**Source Code:** 60-1

**Shipping Container Sealed:** (YES) NO

**Custody Seal Present * :** (YES) NO

* Custody seal was intact unless otherwise noted in the discrepancy section

**Package:** (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 | 2.6 | TB | WI | Y | B | |
| 2 | ↓ | 1.9 | ↓ | ↓ | ↓ | ↓ | |
| 3 | ↓ | 1.7 | ↓ | ↓ | ↓ | ↓ | |
| 4 | ↓ | 0.3 | ↓ | ↓ | ↓ | ↓ | |
| 5 | ↓ | 0.5 | ↓ | ↓ | ↓ | ↓ | |
| 6 | ↓ | 0.5 | ↓ | ↓ | ↓ | ↓ | |

**Number of Trip Blanks received NOT listed on chain of custody:** Ø

**Paperwork Discrepancy/Unpacking Problems:**

did not receive trip blanks - Gr. 1425288

**Unpacker Signature/Emp#:** [signature] 3647 **Date/Time:** 10/10/13 1032

Issued by Dept. 6042 Management

2174.06

# Explanation of Symbols and Abbreviations

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

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** 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.

**ppb** parts per billion

**Dry weight basis** 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 ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

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

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.