

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 15, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 10/11/2013

Group Number: 1425634

SDG: PEM08

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LL) #

| | |
|---|---------|
| WS-014(1.5-2.0)101013 Filt Grab Surface Water | 7232951 |
| WS-014(5.5-6.0)101013 Filt Grab Surface Water | 7232952 |
| WS-012(1.5-2.0)101013 Filt Grab Surface Water | 7232953 |
| WS-012(5.0-5.5)101013 Filt Grab Surface Water | 7232954 |
| WS-010(1.5-2.0)101013 Filt Grab Surface Water | 7232955 |
| WS-010(3.5-4.0)101013 Filt Grab Surface Water | 7232956 |
| WS-006(0.5-1.0)101013 Filt Grab Surface Water | 7232957 |
| WS-005(Surface)101013 Filt Grab Surface Water | 7232958 |
| WS-002(Surface)101013 Filt Grab Surface Water | 7232959 |
| WS-011(1.5-2.0)101013 Filt Grab Surface Water | 7232960 |
| WS-011(5.0-5.5)101013 Filt Grab Surface Water | 7232961 |
| WS-018(Surface)101013 Filt Grab Surface Water | 7232962 |
| WS-003(Surface)101013 Filt Grab Surface Water | 7232963 |
| WS-007(0.5-1.0)101013 Filt Grab Surface Water | 7232964 |
| DUP-WS-100-101013 Filt Grab Surface Water | 7232965 |
| WS-EB-87-101013 Filt Grab Water | 7232966 |
| WS-001(0.5-1.0)101013 Filt Grab Surface Water | 7232967 |

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 COPY TO | ExxonMobil | Attn: Michael J. Firth |
| ELECTRONIC COPY TO | ARCADIS | Attn: Emily Leamer |

| | | |
|------------|------------|--------------------------|
| COPY TO | | |
| ELECTRONIC | ARCADIS | Attn: Rhiannon Parmalee |
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| 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
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1425634

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)101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232951
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/10/2013 10:10 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

F1415 SDG#: PEM08-01

| 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 | 0.0179 | 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 | 132871848001 | 10/15/2013 00:05 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:05 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:05 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:05 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:05 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:05 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:05 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:05 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:05 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:13 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

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Sample Description: WS-014(5.5-6.0)101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232952
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/10/2013 10:20 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

F1455 SDG#: PEM08-02

| 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 | 0.0193 | 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 | 132871848001 | 10/15/2013 00:09 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:09 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:09 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:09 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:09 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:09 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:09 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:09 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:09 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:15 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

Sample Description: WS-012(1.5-2.0)101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232953
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/10/2013 10:30 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

F1215 SDG#: PEM08-03

| 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 | 0.0168 | 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 | 132871848001 | 10/15/2013 00:22 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:22 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:22 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:22 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:22 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:22 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:22 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:22 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:22 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:17 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

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Sample Description: WS-012(5.0-5.5)101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232954
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/10/2013 10:40 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

F1250 SDG#: PEM08-04

| 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 | 0.0185 | 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 | 132871848001 | 10/15/2013 00:26 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:26 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:26 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:26 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:26 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:26 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:26 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:26 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:26 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:19 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

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Sample Description: WS-010(1.5-2.0)101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232955
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/10/2013 11:00 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

F1015 SDG#: PEM08-05

| 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 | 0.0213 | 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 | 132871848001 | 10/15/2013 00:30 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:30 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:30 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:30 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:30 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:30 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:30 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:30 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:30 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:21 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

Sample Description: WS-010(3.5-4.0)101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232956
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/10/2013 11:10 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

F1035 SDG#: PEM08-06

| 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 | 0.0213 | 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 | 132871848001 | 10/15/2013 00:34 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:34 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:34 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:34 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:34 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:34 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:34 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:34 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:34 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:23 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

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Sample Description: WS-006(0.5-1.0)101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232957
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/10/2013 11:20 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

F0605 SDG#: PEM08-07

| 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 | 0.0198 | 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 | 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 | 132871848001 | 10/14/2013 23:40 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/14/2013 23:40 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/14/2013 23:40 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/14/2013 23:40 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/14/2013 23:40 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/14/2013 23:40 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/14/2013 23:40 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/14/2013 23:40 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/14/2013 23:40 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:25 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

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Sample Description: WS-005(Surface)101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232958
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

F05S- SDG#: PEM08-08

| 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 | 0.0199 | 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 | 132871848001 | 10/15/2013 00:38 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:38 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:38 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:38 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:38 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:38 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:38 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:38 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:38 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:27 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

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Sample Description: WS-002 (Surface)101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232959
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/10/2013 11:50 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

F02S- SDG#: PEM08-09

| 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 | 0.0169 | 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 | 132871848001 | 10/15/2013 00:43 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:43 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:43 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:43 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:43 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:43 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:43 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:43 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:43 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:29 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

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Sample Description: WS-011(1.5-2.0)101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232960
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/10/2013 12:00 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

F1115 SDG#: PEM08-10

| 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 | 0.0197 | 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 | 132871848001 | 10/15/2013 00:47 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:47 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:47 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:47 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:47 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:47 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:47 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:47 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:47 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:35 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

Sample Description: WS-011(5.0-5.5)101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232961
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/10/2013 12:10 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

11F50 SDG#: PEM08-11

| 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 | 0.0199 | 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 | 132871848001 | 10/15/2013 00:51 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:51 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:51 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:51 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:51 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:51 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:51 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:51 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:51 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:37 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

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Sample Description: WS-018 (Surface) 101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232962
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/10/2013 08:40 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

18SF- SDG#: PEM08-12

| 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 | 0.0281 | 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 | 132871848001 | 10/15/2013 00:55 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:55 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:55 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:55 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:55 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:55 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:55 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:55 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:55 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:39 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

Sample Description: WS-003 (Surface)101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232963
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/10/2013 08:50 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

3SF-- SDG#: PEM08-13

| 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 | 0.0200 | 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 | 132871848001 | 10/15/2013 00:59 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:59 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:59 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:59 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:59 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:59 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:59 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:59 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 00:59 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:41 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: WS-007(0.5-1.0)101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232964
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/10/2013 09:10 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

F0705 SDG#: PEM08-14

| 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 | 0.0248 | 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 | 0.0018 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 |
| | | 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 | 132871848001 | 10/15/2013 01:12 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:12 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:12 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:12 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:12 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:12 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:12 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:12 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:12 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:44 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

Sample Description: DUP-WS-100-101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232965
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/10/2013 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

FFD10 SDG#: PEM08-15FD

| 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 | 0.0192 | 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 | 132871848001 | 10/15/2013 01:16 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:16 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:16 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:16 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:16 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:16 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:16 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:16 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:16 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:46 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

Sample Description: **WS-EB-87-101013 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7232966**
 LL Group # **1425634**
 Account # **14739**

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

Collected: 10/10/2013 13:10 by HV

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

87EBF SDG#: PEM08-16EB

| 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 | 132871848001 | 10/15/2013 01:20 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:20 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:20 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:20 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:20 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:20 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:20 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:20 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:20 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:48 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

Sample Description: WS-001(0.5-1.0)101013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7232967
LL Group # 1425634
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

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

Submitted: 10/11/2013 09:15

Reported: 10/15/2013 14:36

F0105 SDG#: PEM08-17*

| 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 | 0.0206 | 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 | 132871848001 | 10/15/2013 01:24 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:24 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:24 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:24 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:24 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:24 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:24 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:24 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132871848001 | 10/15/2013 01:24 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132865713005 | 10/15/2013 08:50 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132871848001 | 10/14/2013 11:22 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132865713005 | 10/14/2013 15:45 | Nelli S Markaryan | 1 |

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 10/15/13 at 02:36 PM

Group Number: 1425634

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: 132865713005 | Sample number(s): 7232951-7232967 | | | | | | | | |
| Mercury | N.D. | 0.00006 | 0.00020 | mg/l | 102 | | 80-120 | | |
| | | 0 | | | | | | | |
| Batch number: 132871848001 | Sample number(s): 7232951-7232967 | | | | | | | | |
| Arsenic | N.D. | 0.0068 | 0.0200 | mg/l | 99 | | 90-113 | | |
| Barium | N.D. | 0.00033 | 0.0050 | mg/l | 101 | | 90-110 | | |
| Cadmium | N.D. | 0.00076 | 0.0050 | mg/l | 101 | | 90-112 | | |
| Chromium | N.D. | 0.0016 | 0.0150 | mg/l | 105 | | 90-110 | | |
| Lead | N.D. | 0.0047 | 0.0150 | mg/l | 104 | | 88-110 | | |
| Nickel | N.D. | 0.0015 | 0.0100 | mg/l | 105 | | 90-111 | | |
| Selenium | N.D. | 0.0084 | 0.0200 | mg/l | 100 | | 80-120 | | |
| Silver | N.D. | 0.0021 | 0.0050 | mg/l | 100 | | 80-120 | | |
| Vanadium | N.D. | 0.0020 | 0.0050 | mg/l | 106 | | 90-110 | | |

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: 132865713005 | Sample number(s): 7232951-7232967 UNSPK: 7232967 BKG: 7232967 | | | | | | | | |
| Mercury | 97 | 99 | 80-120 | 2 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Batch number: 132871848001 | Sample number(s): 7232951-7232967 UNSPK: 7232957 BKG: 7232957 | | | | | | | | |
| Arsenic | 101 | 99 | 81-123 | 2 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Barium | 102 | 103 | 78-118 | 1 | 20 | 0.0198 | 0.0200 | 1 (1) | 20 |
| Cadmium | 101 | 101 | 83-116 | 1 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Chromium | 106 | 106 | 76-120 | 0 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Lead | 103 | 103 | 75-125 | 0 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Nickel | 104 | 104 | 86-115 | 0 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Selenium | 100 | 98 | 75-125 | 2 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Silver | 102 | 101 | 75-125 | 0 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Vanadium | 107 | 108 | 90-117 | 1 | 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.

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Mayflower
 Date of Receipt: 10/11/13
 Time of Receipt: 0915
 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 | DT146 | 1.8 | TB | WI | Y | B | |
| 2 | ↓ | 1.0 | ↓ | ↓ | ↓ | ↓ | |
| 3 | | 0.7 | | | | | |
| 4 | | 1.0 | | | | | |
| 5 | | 0.7 | | | | | |
| 6 | | 0.7 | | | | | |

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: CEsther 3647 Date/Time: 10/11/13 1009

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 \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A** TIC is a possible aldol-condensation product
- B** Analyte was also detected in the blank
- C** Pesticide result confirmed by GC/MS
- D** Compound quantitated on a diluted sample
- E** Concentration exceeds the calibration range of the instrument
- N** Presumptive evidence of a compound (TICs only)
- P** Concentration difference between primary and confirmation columns $>25\%$
- U** Compound was not detected
- X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- B** Value is $<$ CRDL, but \geq IDL
- E** Estimated due to interference
- M** Duplicate injection precision not met
- N** Spike sample not within control limits
- S** Method of standard additions (MSA) used for calculation
- U** Compound was not detected
- W** Post digestion spike out of control limits
- *** Duplicate analysis not within control limits
- +** 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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