

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 24, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 10/17/2013

Group Number: 1426979

SDG: PEM25

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LL)

| | |
|--|---------|
| WS-014(1.5-2.0)101613 Grab Surface Water | 7239790 |
| WS-014(5.5-6.0)101613 Grab Surface Water | 7239791 |
| WS-012(1.5-2.0)101613 Grab Surface Water | 7239792 |
| WS-012(5.0-5.5)101613 Grab Surface Water | 7239793 |
| WS-010(1.5-2.0)101613 Grab Surface Water | 7239794 |
| WS-010(3.5-4.0)101613 Grab Surface Water | 7239795 |
| WS-006(0.5-1.0)101613 Grab Surface Water | 7239796 |
| WS-005(Surface)101613 Grab Surface Water | 7239797 |
| WS-011(1.5-2.0)101613 Grab Surface Water | 7239798 |
| WS-011(5.5-6.0)101613 Grab Surface Water | 7239799 |
| WS-002(Surface)101613 Grab Surface Water | 7239800 |
| WS-018(Surface)101613 Grab Surface Water | 7239801 |
| WS-003(Surface)101613 Grab Surface Water | 7239802 |
| WS-007(0.5-1.0)101613 Grab Surface Water | 7239803 |
| WS-001(0.5-1.0)101613 Grab Surface Water | 7239804 |
| DUP-WS-103-101613 Grab Surface Water | 7239805 |
| WS-EB-93-101613 Grab Water | 7239806 |
| WS-TB-178-101613 Water | 7239807 |

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

ELECTRONIC ARCADIS

Attn: Stephen Barrick

COPY TO

ELECTRONIC ARCADIS

Attn: Lyndi Mott

COPY TO

ELECTRONIC ExxonMobil

Attn: Michael J. Firth

COPY TO

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

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1426979

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:**SW-846 8270C SIM, GC/MS Semivolatiles**

Sample #s: 7239790, 7239791, 7239792, 7239793, 7239794, 7239795, 7239796, 7239797, 7239798, 7239799, 7239800, 7239801, 7239802, 7239803, 7239804, 7239805, 7239806

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

EPA 1664A, Wet Chemistry

Batch #: 13296807902A (Sample number(s): 7239790-7239805 UNSPK: 7239791)

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: HEM (oil & grease)

Sample Description: WS-014(1.5-2.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239790
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 08:20 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16141 SDG#: PEM25-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-014(1.5-2.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239790**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 08:20 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16141 SDG#: PEM25-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Naphthalene | 91-20-3 | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.010 | 0.052 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 22.0 | 0.033 | 0.20 | 1 |
| | 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 | 0.0332 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: **WS-014(1.5-2.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239790**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 08:20 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16141 SDG#: PEM25-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 4.85 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.41 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | N.D. | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|---------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 12:36 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 12:36 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/19/2013 05:22 | Catherine E Bachman | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:17 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:17 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:17 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:17 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:17 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:17 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:17 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:17 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:17 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:17 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:17 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 08:42 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | 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-014(1.5-2.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239790
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 08:20 by HVA

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
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Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16141 SDG#: PEM25-01

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------|-----------|--------|--------------|------------------------|------------------|-----------------|
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:48 | Michelle L Lalli | 1 |

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

Sample Description: **WS-014(5.5-6.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239791**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 08:30 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16142 SDG#: PEM25-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-014(5.5-6.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239791**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 08:30 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16142 SDG#: PEM25-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Naphthalene | 91-20-3 | N.D. | 0.031 | 0.051 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.031 | 0.051 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.010 | 0.051 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 21.9 | 0.033 | 0.20 | 1 |
| | 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 | 0.0034 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: WS-014(5.5-6.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239791
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 08:30 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16142 SDG#: PEM25-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 4.82 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.39 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | 1.6 J | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|---------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 12:57 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 12:57 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/19/2013 05:52 | Catherine E Bachman | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:21 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:21 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:21 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:21 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:21 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:21 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:21 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:21 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:21 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:21 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:21 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 08:44 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |

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

Sample Description: WS-014(5.5-6.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239791
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 08:30 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16142 SDG#: PEM25-02

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------|-----------|--------|--------------|------------------------|------------------|-----------------|
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:48 | Michelle L Lalli | 1 |

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

Sample Description: **WS-012(1.5-2.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239792**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 08:40 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16121 SDG#: PEM25-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-012(1.5-2.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239792**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 08:40 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16121 SDG#: PEM25-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.011 | 0.055 | 1 |
| 08357 | Naphthalene | 91-20-3 | N.D. | 0.033 | 0.055 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.033 | 0.055 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.011 | 0.055 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 22.6 | 0.033 | 0.20 | 1 |
| | 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 | 0.0309 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: WS-012(1.5-2.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239792
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 08:40 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16121 SDG#: PEM25-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 5.00 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.45 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | N.D. | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|---------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 13:18 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 13:18 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/19/2013 06:21 | Catherine E Bachman | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:33 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:33 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:33 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:33 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:33 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:33 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:33 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:33 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:33 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:33 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:33 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 08:46 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |

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

Sample Description: WS-012(1.5-2.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239792
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 08:40 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16121 SDG#: PEM25-03

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------|-----------|--------|--------------|------------------------|------------------|-----------------|
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:48 | Michelle L Lalli | 1 |

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

Sample Description: **WS-012(5.0-5.5)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239793**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 08:50 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16122 SDG#: PEM25-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-012(5.0-5.5)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239793**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 08:50 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16122 SDG#: PEM25-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Naphthalene | 91-20-3 | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.010 | 0.052 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 22.3 | 0.033 | 0.20 | 1 |
| | 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 | 0.0318 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: WS-012(5.0-5.5)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239793
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 08:50 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16122 SDG#: PEM25-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 4.93 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.42 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | 2.7 J | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|---------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 13:39 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 13:39 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/19/2013 06:50 | Catherine E Bachman | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:37 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:37 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:37 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:37 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:37 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:37 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:37 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:37 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:37 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:37 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:37 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 08:48 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |

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

Sample Description: WS-012(5.0-5.5)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239793
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 08:50 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16122 SDG#: PEM25-04

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------|-----------|--------|--------------|------------------------|------------------|-----------------|
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:48 | Michelle L Lalli | 1 |

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

Sample Description: WS-010(1.5-2.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239794
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 09:10 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16101 SDG#: PEM25-05

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-010(1.5-2.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239794**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 09:10 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16101 SDG#: PEM25-05

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Naphthalene | 91-20-3 | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.010 | 0.052 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 22.8 | 0.033 | 0.20 | 1 |
| | 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 | 0.0351 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: WS-010(1.5-2.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239794
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 09:10 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16101 SDG#: PEM25-05

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 5.05 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.48 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | N.D. | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|---------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 14:00 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 14:00 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/19/2013 07:20 | Catherine E Bachman | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:42 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:42 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:42 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:42 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:42 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:42 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:42 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:42 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:42 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:42 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:42 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 08:50 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |

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

Sample Description: WS-010(1.5-2.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239794
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 09:10 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16101 SDG#: PEM25-05

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------|-----------|--------|--------------|------------------------|------------------|-----------------|
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:48 | Michelle L Lalli | 1 |

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

Sample Description: **WS-010(3.5-4.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239795**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 09:20 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16102 SDG#: PEM25-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-010(3.5-4.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239795**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 09:20 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16102 SDG#: PEM25-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Naphthalene | 91-20-3 | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.010 | 0.052 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 23.3 | 0.033 | 0.20 | 1 |
| | 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 | 0.0367 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: WS-010(3.5-4.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239795
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 09:20 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16102 SDG#: PEM25-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 5.15 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.53 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | N.D. | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|---------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 14:22 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 14:22 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/19/2013 07:49 | Catherine E Bachman | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:46 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:46 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:46 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:46 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:46 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:46 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:46 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:46 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:46 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:46 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:46 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 08:52 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |

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

Sample Description: WS-010(3.5-4.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239795
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 09:20 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16102 SDG#: PEM25-06

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------|-----------|--------|--------------|------------------------|------------------|-----------------|
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:48 | Michelle L Lalli | 1 |

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

Sample Description: WS-006(0.5-1.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239796
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 09:40 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16006 SDG#: PEM25-07

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-006(0.5-1.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239796**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 09:40 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16006 SDG#: PEM25-07

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Naphthalene | 91-20-3 | N.D. J | 0.031 | 0.052 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.010 | 0.052 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 22.5 | 0.033 | 0.20 | 1 |
| | 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 | 0.0329 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: WS-006(0.5-1.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239796
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 09:40 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16006 SDG#: PEM25-07

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 4.98 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.45 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | 2.2 J | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 15:46 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 15:46 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/19/2013 21:07 | Chad A Moline | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 03:53 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 03:53 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 03:53 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 03:53 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 03:53 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 03:53 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 03:53 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 03:53 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 03:53 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 03:53 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 03:53 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 08:58 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:48 | Michelle L Lalli | 1 |

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

Sample Description: WS-005(Surface)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239797
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 10:00 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16005 SDG#: PEM25-08

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-005(Surface)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239797**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 10:00 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16005 SDG#: PEM25-08

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | 0.1 J | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Naphthalene | 91-20-3 | 0.050 J | 0.031 | 0.052 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Pyrene | 129-00-0 | 0.086 | 0.010 | 0.052 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 28.2 | 0.033 | 0.20 | 1 |
| | SW-846 6010B | mg/l | mg/l | mg/l | | |
| 07035 | Arsenic | 7440-38-2 | 0.0078 J | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0429 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: WS-005 (Surface) 101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239797
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 10:00 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16005 SDG#: PEM25-08

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 6.54 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.87 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | 2.8 J | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 16:07 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 16:07 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/19/2013 21:36 | Chad A Moline | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:50 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:50 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:50 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:50 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:50 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:50 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:50 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:50 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:50 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:50 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:50 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 09:00 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:48 | Michelle L Lalli | 1 |

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

Sample Description: WS-011(1.5-2.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239798
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 10:40 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16111 SDG#: PEM25-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-011(1.5-2.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239798**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 10:40 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16111 SDG#: PEM25-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Naphthalene | 91-20-3 | 0.051 J | 0.031 | 0.052 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.010 | 0.052 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 24.0 | 0.033 | 0.20 | 1 |
| | 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 | 0.0373 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: WS-011(1.5-2.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239798
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 10:40 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16111 SDG#: PEM25-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 5.26 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.64 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | 3.7 J | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 16:28 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 16:28 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/19/2013 22:06 | Chad A Moline | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:54 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:54 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:54 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:54 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:54 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:54 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:54 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:54 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:54 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:54 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:54 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 09:02 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:49 | Michelle L Lalli | 1 |

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

Sample Description: **WS-011(5.5-6.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239799**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 10:50 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16112 SDG#: PEM25-10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-011(5.5-6.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239799**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 10:50 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16112 SDG#: PEM25-10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Naphthalene | 91-20-3 | 0.033 J | 0.031 | 0.052 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.010 | 0.052 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 23.3 | 0.033 | 0.20 | 1 |
| | 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 | 0.0381 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: WS-011(5.5-6.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239799
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 10:50 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16112 SDG#: PEM25-10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 5.13 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.55 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | 2.8 J | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 16:50 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 16:50 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/19/2013 22:35 | Chad A Moline | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:58 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:58 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:58 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:58 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:58 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:58 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:58 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:58 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:58 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:58 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 04:58 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 09:04 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:49 | Michelle L Lalli | 1 |

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

Sample Description: **WS-002 (Surface)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239800**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 11:10 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16002 SDG#: PEM25-11

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-002 (Surface) 101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239800**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 11:10 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16002 SDG#: PEM25-11

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Naphthalene | 91-20-3 | 0.044 J | 0.031 | 0.051 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.031 | 0.051 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.010 | 0.051 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 22.2 | 0.033 | 0.20 | 1 |
| | 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 | 0.0323 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: WS-002 (Surface) 101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239800
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 11:10 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16002 SDG#: PEM25-11

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 4.90 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.43 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | 1.7 J | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 17:11 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 17:11 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/19/2013 23:04 | Chad A Moline | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:02 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:02 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:02 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:02 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:02 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:02 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:02 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:02 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:02 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:02 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:02 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 09:13 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:49 | Michelle L Lalli | 1 |

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

Sample Description: **WS-018 (Surface)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239801**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 11:50 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16018 SDG#: PEM25-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-018 (Surface) 101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239801**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 11:50 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16018 SDG#: PEM25-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Naphthalene | 91-20-3 | 0.047 J | 0.032 | 0.053 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.032 | 0.053 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.011 | 0.053 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 25.0 | 0.033 | 0.20 | 1 |
| | 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 | 0.0491 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: WS-018 (Surface) 101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239801
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 11:50 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16018 SDG#: PEM25-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 5.59 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.68 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | N.D. | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 17:32 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 17:32 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/19/2013 23:34 | Chad A Moline | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:06 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:06 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:06 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:06 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:06 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:06 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:06 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:06 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:06 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:06 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:06 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 09:15 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:49 | Michelle L Lalli | 1 |

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

Sample Description: WS-003 (Surface)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239802
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 12:00 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16003 SDG#: PEM25-13

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-003 (Surface)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239802**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 12:00 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16003 SDG#: PEM25-13

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Naphthalene | 91-20-3 | 0.079 | 0.032 | 0.053 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.032 | 0.053 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.011 | 0.053 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 24.2 | 0.033 | 0.20 | 1 |
| | 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 | 0.0445 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: WS-003 (Surface) 101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239802
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 12:00 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16003 SDG#: PEM25-13

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 5.30 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.66 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | 2.6 J | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 17:53 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 17:53 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/20/2013 00:03 | Chad A Moline | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:10 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:10 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:10 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:10 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:10 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:10 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:10 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:10 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:10 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:10 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:10 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 09:17 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:49 | Michelle L Lalli | 1 |

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

Sample Description: WS-007(0.5-1.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239803
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 12:40 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16007 SDG#: PEM25-14

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | Acetone | 67-64-1 | 3.9 J | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-007(0.5-1.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239803**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 12:40 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16007 SDG#: PEM25-14

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.011 | 0.053 | 1 |
| 08357 | Naphthalene | 91-20-3 | N.D. | 0.032 | 0.053 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.032 | 0.053 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.011 | 0.053 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 23.0 | 0.033 | 0.20 | 1 |
| | SW-846 6010B | mg/l | mg/l | mg/l | | |
| 07035 | Arsenic | 7440-38-2 | 0.0101 J | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0515 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: WS-007(0.5-1.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239803
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 12:40 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16007 SDG#: PEM25-14

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 5.31 | 0.0334 | 0.200 | 1 |
| 07051 | Chromium | 7440-47-3 | 0.0016 J | 0.0016 | 0.0150 | 1 |
| 07055 | Lead | 7439-92-1 | N.D. | 0.0047 | 0.0150 | 1 |
| 01757 | Magnesium | 7439-95-4 | 2.38 | 0.0167 | 0.100 | 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 | 0.0022 J | 0.0020 | 0.0050 | 1 |
| SW-846 7470A | | | | | | |
| | SW-846 7470A | | mg/l | mg/l | mg/l | |
| 00259 | Mercury | 7439-97-6 | N.D. | 0.000060 | 0.00020 | 1 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | N.D. | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 18:14 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 18:14 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/20/2013 00:33 | Chad A Moline | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:22 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:22 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:22 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:22 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:22 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:22 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:22 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:22 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:22 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:22 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:22 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 09:23 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:49 | Michelle L Lalli | 1 |

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

Sample Description: WS-001(0.5-1.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239804
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 13:00 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16001 SDG#: PEM25-15

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-001(0.5-1.0)101613 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239804**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 13:00 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16001 SDG#: PEM25-15

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.010 | 0.051 | 1 |
| 08357 | Naphthalene | 91-20-3 | 0.062 | 0.030 | 0.051 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.030 | 0.051 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.010 | 0.051 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 23.0 | 0.033 | 0.20 | 1 |
| | 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 | 0.0346 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: WS-001(0.5-1.0)101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239804
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 13:00 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16001 SDG#: PEM25-15

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 5.08 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.49 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | N.D. | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 18:35 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 18:35 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/20/2013 01:02 | Chad A Moline | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:26 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:26 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:26 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:26 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:26 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:26 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:26 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:26 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:26 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:26 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:26 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 09:25 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:49 | Michelle L Lalli | 1 |

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

Sample Description: DUP-WS-103-101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239805
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16103 SDG#: PEM25-16FD

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: DUP-WS-103-101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239805
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16103 SDG#: PEM25-16FD

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.011 | 0.054 | 1 |
| 08357 | Naphthalene | 91-20-3 | 0.074 | 0.033 | 0.054 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.033 | 0.054 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.011 | 0.054 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 22.5 | 0.033 | 0.20 | 1 |
| | 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 | 0.0365 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: DUP-WS-103-101613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239805
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16103 SDG#: PEM25-16FD

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|----------------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 4.96 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 2.45 | 0.0167 | 0.100 | 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 |
| Wet Chemistry | | | | | | |
| | EPA 1664A | | mg/l | mg/l | mg/l | |
| 08079 | HEM (oil & grease) | n.a. | N.D. | 1.4 | 5.0 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 18:57 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 18:57 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/20/2013 01:32 | Chad A Moline | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:31 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:31 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:31 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:31 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:31 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:31 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:31 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:31 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:31 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:31 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:31 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 09:27 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |
| 08079 | HEM (oil & grease) | EPA 1664A | 1 | 13296807902A | 10/23/2013 16:49 | Michelle L Lalli | 1 |

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

Sample Description: **WS-EB-93-101613 Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239806**
LL Group # **1426979**
Account # **14739**

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

Collected: 10/16/2013 13:30 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16E93 SDG#: PEM25-17EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|-----------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | purge | | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: **WS-EB-93-101613 Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239806**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 13:30 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16E93 SDG#: PEM25-17EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|--------------|---------------------------|--------------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |
| GC/MS | Semivolatiles | SW-846 8270C SIM | ug/l | ug/l | ug/l | |
| 08357 | Acenaphthene | 83-32-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Acenaphthylene | 208-96-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Anthracene | 120-12-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(a)pyrene | 50-32-8 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(b)fluoranthene | 205-99-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Chrysene | 218-01-9 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluoranthene | 206-44-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Fluorene | 86-73-7 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.010 | 0.052 | 1 |
| 08357 | Naphthalene | 91-20-3 | 0.035 J | 0.031 | 0.052 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.031 | 0.052 | 1 |
| 08357 | Pyrene | 129-00-0 | N.D. | 0.010 | 0.052 | 1 |

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

| Metals | SM 2340 B-1997 | mg/l | mg/l | mg/l | | |
|---------------|-------------------------|-------------|-------------|-------------|--------|---|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 0.71 | 0.033 | 0.20 | 1 |
| | 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 | 0.00037 J | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00076 | 0.0050 | 1 |

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

Sample Description: **WS-EB-93-101613 Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7239806**
 LL Group # **1426979**
 Account # **14739**

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

Collected: 10/16/2013 13:30 by HVA

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16E93 SDG#: PEM25-17EB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------------|---------------------|------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| Metals | | | | | | |
| | SW-846 6010B | | mg/l | mg/l | mg/l | |
| 01750 | Calcium | 7440-70-2 | 0.222 | 0.0334 | 0.200 | 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 |
| 01757 | Magnesium | 7439-95-4 | 0.0370 J | 0.0167 | 0.100 | 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

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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 11:11 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 11:11 | Jason M Long | 1 |
| 08357 | PAHs in waters by SIM | SW-846 8270C SIM | 1 | 13290WAR026 | 10/20/2013 02:01 | Chad A Moline | 1 |
| 10470 | BNA Water Extraction (SIM) | SW-846 3510C | 1 | 13290WAR026 | 10/18/2013 10:00 | David S Schrum | 1 |
| 06256 | Total Hardness as CaCO3 | SM 2340 B-1997 | 1 | 132976256001 | 10/24/2013 10:15 | Deborah A Krady | 1 |
| 07035 | Arsenic | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:35 | John W Yanzuk II | 1 |
| 07046 | Barium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:35 | John W Yanzuk II | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:35 | John W Yanzuk II | 1 |
| 01750 | Calcium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:35 | John W Yanzuk II | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:35 | John W Yanzuk II | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:35 | John W Yanzuk II | 1 |
| 01757 | Magnesium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:35 | John W Yanzuk II | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:35 | John W Yanzuk II | 1 |
| 07036 | Selenium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:35 | John W Yanzuk II | 1 |
| 07066 | Silver | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:35 | John W Yanzuk II | 1 |
| 07071 | Vanadium | SW-846 6010B | 1 | 132901848002 | 10/24/2013 05:35 | John W Yanzuk II | 1 |
| 00259 | Mercury | SW-846 7470A | 1 | 132905713001 | 10/18/2013 09:29 | Damary Valentin | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 132901848002 | 10/20/2013 09:36 | James L Mertz | 1 |
| 05713 | WW SW846 Hg Digest | SW-846 7470A | 1 | 132905713001 | 10/17/2013 16:40 | Nelli S Markaryan | 1 |

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

Sample Description: WS-TB-178-101613 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239807
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16178 SDG#: PEM25-18TB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|-----------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | Acetone | 67-64-1 | N.D. | 3.0 | 5.0 | 1 |
| 02898 | Allyl Chloride | 107-05-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Benzene | 71-43-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromobenzene | 108-86-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromochloromethane | 74-97-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromodichloromethane | 75-27-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromoform | 75-25-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Bromomethane | 74-83-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2-Butanone | 78-93-3 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | n-Butylbenzene | 104-51-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | sec-Butylbenzene | 135-98-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | tert-Butylbenzene | 98-06-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Carbon Tetrachloride | 56-23-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chlorobenzene | 108-90-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroethane | 75-00-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloroform | 67-66-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Chloromethane | 74-87-3 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 2-Chlorotoluene | 95-49-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Chlorotoluene | 106-43-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromo-3-chloropropane | 96-12-8 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Dibromochloromethane | 124-48-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dibromomethane | 74-95-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorodifluoromethane | 75-71-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethane | 75-34-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloroethene | 75-35-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Dichlorofluoromethane | 75-43-4 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | 1,2-Dichloropropane | 78-87-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3-Dichloropropane | 142-28-9 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 2,2-Dichloropropane | 594-20-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1-Dichloropropene | 563-58-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethyl ether | 60-29-7 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Ethylbenzene | 100-41-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Freon 113 | 76-13-1 | N.D. | 0.2 | 0.5 | 1 |
| 02898 | Hexachlorobutadiene | 87-68-3 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Isopropylbenzene | 98-82-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | p-Isopropyltoluene | 99-87-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 4-Methyl-2-Pentanone | 108-10-1 | N.D. | 1.0 | 5.0 | 1 |
| 02898 | Methylene Chloride | 75-09-2 | N.D. | 0.2 | 0.5 | 1 |

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

Sample Description: WS-TB-178-101613 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7239807
LL Group # 1426979
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/16/2013

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

Submitted: 10/17/2013 09:30

Reported: 10/24/2013 10:20

16178 SDG#: PEM25-18TB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit* | As Received Limit of Quantitation | Dilution Factor |
|---------|---------------------------|-------------------|--------------------|-------------------------------------|-----------------------------------|-----------------|
| GC/MS | Volatiles | SW-846 8260B 25mL | ug/l | ug/l | ug/l | |
| | | purge | | | | |
| 02898 | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| 02898 | Toluene | 108-88-3 | 0.1 J | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,2,3-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| 02898 | 1,2,4-Trimethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | 1,3,5-Trimethylbenzene | 108-67-8 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| 02898 | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |

General Sample Comments

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 |
|---------|--------------------------------|----------------------------|--------|-----------|------------------------|--------------|-----------------|
| 02898 | Silvertip & Mayflower VOCs8260 | SW-846 8260B 25mL purge | 1 | I132911AA | 10/18/2013 11:32 | Jason M Long | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | I132911AA | 10/18/2013 11:32 | Jason M Long | 1 |

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 10/24/13 at 10:20 AM

Group Number: 1426979

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: I132911AA | Sample number(s): 7239790-7239807 | | | | | | | | |
| Acetone | N.D. | 3.0 | 5.0 | ug/l | 102 | | 60-139 | | |
| Allyl Chloride | N.D. | 0.1 | 0.5 | ug/l | 94 | | 61-130 | | |
| Benzene | N.D. | 0.1 | 0.5 | ug/l | 92 | | 80-120 | | |
| Bromobenzene | N.D. | 0.1 | 0.5 | ug/l | 95 | | 80-120 | | |
| Bromochloromethane | N.D. | 0.1 | 0.5 | ug/l | 95 | | 80-125 | | |
| Bromodichloromethane | N.D. | 0.1 | 0.5 | ug/l | 96 | | 80-120 | | |
| Bromoform | N.D. | 0.1 | 0.5 | ug/l | 103 | | 73-128 | | |
| Bromomethane | N.D. | 0.1 | 0.5 | ug/l | 69 | | 62-126 | | |
| 2-Butanone | N.D. | 1.0 | 5.0 | ug/l | 94 | | 70-130 | | |
| n-Butylbenzene | N.D. | 0.1 | 0.5 | ug/l | 92 | | 80-120 | | |
| sec-Butylbenzene | N.D. | 0.1 | 0.5 | ug/l | 93 | | 80-120 | | |
| tert-Butylbenzene | N.D. | 0.1 | 0.5 | ug/l | 92 | | 80-120 | | |
| Carbon Tetrachloride | N.D. | 0.1 | 0.5 | ug/l | 95 | | 80-129 | | |
| Chlorobenzene | N.D. | 0.1 | 0.5 | ug/l | 91 | | 80-120 | | |
| Chloroethane | N.D. | 0.1 | 0.5 | ug/l | 71 | | 68-120 | | |
| Chloroform | N.D. | 0.1 | 0.5 | ug/l | 95 | | 80-120 | | |
| Chloromethane | N.D. | 0.2 | 0.5 | ug/l | 67 | | 55-120 | | |
| 2-Chlorotoluene | N.D. | 0.1 | 0.5 | ug/l | 93 | | 80-120 | | |
| 4-Chlorotoluene | N.D. | 0.1 | 0.5 | ug/l | 93 | | 80-120 | | |
| 1,2-Dibromo-3-chloropropane | N.D. | 0.2 | 0.5 | ug/l | 92 | | 64-141 | | |
| Dibromochloromethane | N.D. | 0.1 | 0.5 | ug/l | 98 | | 80-126 | | |
| 1,2-Dibromoethane | N.D. | 0.1 | 0.5 | ug/l | 97 | | 80-120 | | |
| Dibromomethane | N.D. | 0.1 | 0.5 | ug/l | 97 | | 80-120 | | |
| 1,2-Dichlorobenzene | N.D. | 0.1 | 0.5 | ug/l | 97 | | 80-120 | | |
| 1,3-Dichlorobenzene | N.D. | 0.1 | 0.5 | ug/l | 98 | | 80-120 | | |
| 1,4-Dichlorobenzene | N.D. | 0.1 | 0.5 | ug/l | 97 | | 80-120 | | |
| Dichlorodifluoromethane | N.D. | 0.1 | 0.5 | ug/l | 50 | | 39-120 | | |
| 1,1-Dichloroethane | N.D. | 0.1 | 0.5 | ug/l | 97 | | 80-120 | | |
| 1,2-Dichloroethane | N.D. | 0.1 | 0.5 | ug/l | 100 | | 80-127 | | |
| 1,1-Dichloroethene | N.D. | 0.1 | 0.5 | ug/l | 93 | | 80-123 | | |
| cis-1,2-Dichloroethene | N.D. | 0.1 | 0.5 | ug/l | 92 | | 80-120 | | |
| trans-1,2-Dichloroethene | N.D. | 0.1 | 0.5 | ug/l | 93 | | 80-120 | | |
| Dichlorofluoromethane | N.D. | 0.2 | 0.5 | ug/l | 92 | | 75-145 | | |
| 1,2-Dichloropropane | N.D. | 0.1 | 0.5 | ug/l | 99 | | 80-120 | | |
| 1,3-Dichloropropane | N.D. | 0.1 | 0.5 | ug/l | 97 | | 80-120 | | |
| 2,2-Dichloropropane | N.D. | 0.1 | 0.5 | ug/l | 91 | | 75-122 | | |
| 1,1-Dichloropropene | N.D. | 0.1 | 0.5 | ug/l | 89 | | 80-121 | | |
| cis-1,3-Dichloropropene | N.D. | 0.1 | 0.5 | ug/l | 97 | | 80-123 | | |
| trans-1,3-Dichloropropene | N.D. | 0.1 | 0.5 | ug/l | 94 | | 80-120 | | |
| Ethyl ether | N.D. | 0.1 | 0.5 | ug/l | 76 | | 59-130 | | |
| Ethylbenzene | N.D. | 0.1 | 0.5 | ug/l | 90 | | 80-120 | | |
| Freon 113 | N.D. | 0.2 | 0.5 | ug/l | 85 | | 78-132 | | |
| Hexachlorobutadiene | N.D. | 0.1 | 0.5 | ug/l | 101 | | 73-120 | | |

*- 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.

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 10/24/13 at 10:20 AM

Group Number: 1426979

| <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>LCS D %REC</u> | <u>LCS/LCS D Limits</u> | <u>RPD</u> | <u>RPD Max</u> |
|-----------------------------|---------------------|--------------------|------------------|---------------------|-----------------|-------------------|-------------------------|------------|----------------|
| Isopropylbenzene | N.D. | 0.1 | 0.5 | ug/l | 89 | | 80-120 | | |
| p-Isopropyltoluene | N.D. | 0.1 | 0.5 | ug/l | 93 | | 80-120 | | |
| Methyl Tertiary Butyl Ether | N.D. | 0.1 | 0.5 | ug/l | 92 | | 80-120 | | |
| 4-Methyl-2-Pentanone | N.D. | 1.0 | 5.0 | ug/l | 103 | | 69-135 | | |
| Methylene Chloride | N.D. | 0.2 | 0.5 | ug/l | 97 | | 80-120 | | |
| n-Propylbenzene | N.D. | 0.1 | 0.5 | ug/l | 94 | | 80-120 | | |
| Styrene | N.D. | 0.1 | 0.5 | ug/l | 90 | | 80-120 | | |
| 1,1,1,2-Tetrachloroethane | N.D. | 0.1 | 0.5 | ug/l | 96 | | 80-120 | | |
| 1,1,2,2-Tetrachloroethane | N.D. | 0.1 | 0.5 | ug/l | 102 | | 80-125 | | |
| Tetrachloroethene | N.D. | 0.1 | 0.5 | ug/l | 92 | | 80-120 | | |
| Tetrahydrofuran | N.D. | 2.0 | 5.0 | ug/l | 86 | | 65-131 | | |
| Toluene | N.D. | 0.1 | 0.5 | ug/l | 88 | | 80-120 | | |
| 1,2,3-Trichlorobenzene | N.D. | 0.1 | 0.5 | ug/l | 95 | | 63-120 | | |
| 1,2,4-Trichlorobenzene | N.D. | 0.1 | 0.5 | ug/l | 96 | | 70-120 | | |
| 1,1,1-Trichloroethane | N.D. | 0.1 | 0.5 | ug/l | 93 | | 80-120 | | |
| 1,1,2-Trichloroethane | N.D. | 0.1 | 0.5 | ug/l | 98 | | 80-120 | | |
| Trichloroethene | N.D. | 0.1 | 0.5 | ug/l | 92 | | 80-120 | | |
| Trichlorofluoromethane | N.D. | 0.1 | 0.5 | ug/l | 78 | | 77-132 | | |
| 1,2,3-Trichloropropane | N.D. | 0.3 | 1.0 | ug/l | 103 | | 80-120 | | |
| 1,2,4-Trimethylbenzene | N.D. | 0.1 | 0.5 | ug/l | 94 | | 80-120 | | |
| 1,3,5-Trimethylbenzene | N.D. | 0.1 | 0.5 | ug/l | 94 | | 80-120 | | |
| Vinyl Chloride | N.D. | 0.1 | 0.5 | ug/l | 66 | | 65-127 | | |
| Xylene (Total) | N.D. | 0.1 | 0.5 | ug/l | 89 | | 80-120 | | |

Batch number: 13290WAR026

Sample number(s): 7239790-7239806

| | | | | | | | | | |
|------------------------|------|-------|-------|------|-----|-----|--------|---|----|
| Acenaphthene | N.D. | 0.010 | 0.050 | ug/l | 101 | 100 | 77-118 | 1 | 30 |
| Acenaphthylene | N.D. | 0.010 | 0.050 | ug/l | 107 | 106 | 80-123 | 1 | 30 |
| Anthracene | N.D. | 0.010 | 0.050 | ug/l | 102 | 101 | 78-123 | 1 | 30 |
| Benzo(a)anthracene | N.D. | 0.010 | 0.050 | ug/l | 100 | 100 | 73-127 | 0 | 30 |
| Benzo(a)pyrene | N.D. | 0.010 | 0.050 | ug/l | 95 | 98 | 72-120 | 3 | 30 |
| Benzo(b)fluoranthene | N.D. | 0.010 | 0.050 | ug/l | 102 | 104 | 79-136 | 2 | 30 |
| Benzo(g,h,i)perylene | N.D. | 0.010 | 0.050 | ug/l | 95 | 97 | 64-130 | 2 | 30 |
| Benzo(k)fluoranthene | N.D. | 0.010 | 0.050 | ug/l | 106 | 110 | 73-131 | 4 | 30 |
| Chrysene | N.D. | 0.010 | 0.050 | ug/l | 97 | 96 | 76-125 | 1 | 30 |
| Dibenz(a,h)anthracene | N.D. | 0.010 | 0.050 | ug/l | 85 | 85 | 58-131 | 0 | 30 |
| Fluoranthene | N.D. | 0.010 | 0.050 | ug/l | 104 | 104 | 79-124 | 0 | 30 |
| Fluorene | N.D. | 0.010 | 0.050 | ug/l | 99 | 98 | 74-115 | 1 | 30 |
| Indeno(1,2,3-cd)pyrene | N.D. | 0.010 | 0.050 | ug/l | 90 | 91 | 62-130 | 1 | 30 |
| 1-Methylnaphthalene | N.D. | 0.010 | 0.050 | ug/l | 107 | 106 | 80-126 | 1 | 30 |
| 2-Methylnaphthalene | N.D. | 0.010 | 0.050 | ug/l | 105 | 103 | 81-124 | 1 | 30 |
| Naphthalene | N.D. | 0.030 | 0.050 | ug/l | 104 | 102 | 75-120 | 2 | 30 |
| Phenanthrene | N.D. | 0.030 | 0.050 | ug/l | 98 | 96 | 75-120 | 3 | 30 |
| Pyrene | N.D. | 0.010 | 0.050 | ug/l | 102 | 96 | 71-130 | 6 | 30 |

Batch number: 132901848002

Sample number(s): 7239790-7239806

| | | | | | | | | | |
|-----------|------|---------|--------|------|-----|--|--------|--|--|
| Arsenic | N.D. | 0.0068 | 0.0200 | mg/l | 100 | | 90-113 | | |
| Barium | N.D. | 0.00033 | 0.0050 | mg/l | 102 | | 90-110 | | |
| Cadmium | N.D. | 0.00076 | 0.0050 | mg/l | 101 | | 90-112 | | |
| Calcium | N.D. | 0.0334 | 0.200 | mg/l | 99 | | 90-112 | | |
| Chromium | N.D. | 0.0016 | 0.0150 | mg/l | 99 | | 90-110 | | |
| Lead | N.D. | 0.0047 | 0.0150 | mg/l | 106 | | 88-110 | | |
| Magnesium | N.D. | 0.0167 | 0.100 | mg/l | 98 | | 89-110 | | |
| 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 | 90 | | 80-120 | | |
| Vanadium | N.D. | 0.0020 | 0.0050 | mg/l | 100 | | 90-110 | | |

*- 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.

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 10/24/13 at 10:20 AM

Group Number: 1426979

| <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>LCS %REC</u> | <u>LCS/LCSD Limits</u> | <u>RPD</u> | <u>RPD Max</u> |
|--|---|--------------------|------------------|---------------------|-----------------|-----------------|------------------------|------------|----------------|
| Batch number: 132905713001 Mercury | Sample number(s): 7239790-7239806 N.D. | 0.00006 | 0.00020 | mg/l | 112 | | 80-120 | | |
| Batch number: 13296807902A HEM (oil & grease) | Sample number(s): 7239790-7239805 N.D. | 1.4 | 5.0 | mg/l | 92 | 92 | 78-114 | 0 | 16 |

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: I132911AA | Sample number(s): 7239790-7239807 UNSPK: 7239790 | | | | | | | | |
| Acetone | 110 | 104 | 57-163 | 6 | 30 | | | | |
| Allyl Chloride | 100 | 98 | 56-160 | 2 | 30 | | | | |
| Benzene | 100 | 99 | 87-126 | 1 | 30 | | | | |
| Bromobenzene | 97 | 97 | 80-123 | 0 | 30 | | | | |
| Bromochloromethane | 97 | 96 | 82-125 | 1 | 30 | | | | |
| Bromodichloromethane | 98 | 97 | 82-133 | 1 | 30 | | | | |
| Bromoform | 98 | 98 | 60-138 | 1 | 30 | | | | |
| Bromomethane | 71 | 72 | 66-130 | 1 | 30 | | | | |
| 2-Butanone | 96 | 93 | 56-160 | 3 | 30 | | | | |
| n-Butylbenzene | 100 | 99 | 83-131 | 1 | 30 | | | | |
| sec-Butylbenzene | 101 | 101 | 84-128 | 0 | 30 | | | | |
| tert-Butylbenzene | 97 | 108 | 84-135 | 10 | 30 | | | | |
| Carbon Tetrachloride | 109 | 107 | 81-148 | 2 | 30 | | | | |
| Chlorobenzene | 97 | 96 | 78-133 | 1 | 30 | | | | |
| Chloroethane | 76 | 76 | 70-139 | 1 | 30 | | | | |
| Chloroform | 101 | 101 | 86-136 | 0 | 30 | | | | |
| Chloromethane | 68 | 69 | 49-135 | 1 | 30 | | | | |
| 2-Chlorotoluene | 98 | 97 | 75-134 | 1 | 30 | | | | |
| 4-Chlorotoluene | 99 | 98 | 76-134 | 1 | 30 | | | | |
| 1,2-Dibromo-3-chloropropane | 95 | 93 | 43-143 | 2 | 30 | | | | |
| Dibromochloromethane | 98 | 97 | 79-125 | 1 | 30 | | | | |
| 1,2-Dibromoethane | 95 | 96 | 84-127 | 0 | 30 | | | | |
| Dibromomethane | 98 | 98 | 83-126 | 0 | 30 | | | | |
| 1,2-Dichlorobenzene | 99 | 99 | 83-117 | 0 | 30 | | | | |
| 1,3-Dichlorobenzene | 102 | 101 | 79-132 | 1 | 30 | | | | |
| 1,4-Dichlorobenzene | 101 | 99 | 79-120 | 1 | 30 | | | | |
| Dichlorodifluoromethane | 55 | 51 | 28-136 | 8 | 30 | | | | |
| 1,1-Dichloroethane | 102 | 103 | 88-136 | 1 | 30 | | | | |
| 1,2-Dichloroethane | 103 | 102 | 82-135 | 1 | 30 | | | | |
| 1,1-Dichloroethene | 106 | 104 | 83-150 | 2 | 30 | | | | |
| cis-1,2-Dichloroethene | 98 | 97 | 82-129 | 1 | 30 | | | | |
| trans-1,2-Dichloroethene | 101 | 100 | 88-127 | 1 | 30 | | | | |
| Dichlorofluoromethane | 99 | 99 | 81-161 | 0 | 30 | | | | |
| 1,2-Dichloropropane | 103 | 103 | 91-126 | 0 | 30 | | | | |
| 1,3-Dichloropropane | 97 | 97 | 80-127 | 1 | 30 | | | | |
| 2,2-Dichloropropane | 99 | 100 | 80-134 | 1 | 30 | | | | |
| 1,1-Dichloropropene | 101 | 99 | 86-139 | 2 | 30 | | | | |

*- 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.

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 10/24/13 at 10:20 AM

Group Number: 1426979

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</u> <u>%REC</u> | <u>MSD</u> <u>%REC</u> | <u>MS/MSD</u> <u>Limits</u> | <u>RPD</u> <u>RPD</u> | <u>RPD</u> <u>MAX</u> | <u>BKG</u> <u>Conc</u> | <u>DUP</u> <u>Conc</u> | <u>DUP</u> <u>RPD</u> | <u>Dup RPD</u> <u>Max</u> |
|-----------------------------|--------------------------|---------------------------|--------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|------------------------------|
| cis-1,3-Dichloropropene | 95 | 98 | 74-132 | 3 | 30 | | | | |
| trans-1,3-Dichloropropene | 92 | 92 | 71-128 | 0 | 30 | | | | |
| Ethyl ether | 74 | 75 | 57-139 | 2 | 30 | | | | |
| Ethylbenzene | 98 | 97 | 80-140 | 1 | 30 | | | | |
| Freon 113 | 104 | 98 | 77-147 | 7 | 30 | | | | |
| Hexachlorobutadiene | 113 | 113 | 65-128 | 0 | 30 | | | | |
| Isopropylbenzene | 98 | 97 | 81-133 | 0 | 30 | | | | |
| p-Isopropyltoluene | 99 | 99 | 84-124 | 1 | 30 | | | | |
| Methyl Tertiary Butyl Ether | 90 | 92 | 82-132 | 1 | 30 | | | | |
| 4-Methyl-2-Pentanone | 97 | 99 | 69-149 | 2 | 30 | | | | |
| Methylene Chloride | 101 | 102 | 77-135 | 1 | 30 | | | | |
| n-Propylbenzene | 101 | 100 | 79-131 | 1 | 30 | | | | |
| Styrene | 95 | 94 | 63-151 | 1 | 30 | | | | |
| 1,1,1,2-Tetrachloroethane | 100 | 99 | 87-126 | 1 | 30 | | | | |
| 1,1,2,2-Tetrachloroethane | 102 | 99 | 75-131 | 2 | 30 | | | | |
| Tetrachloroethene | 102 | 100 | 75-129 | 2 | 30 | | | | |
| Tetrahydrofuran | 85 | 82 | 56-154 | 3 | 30 | | | | |
| Toluene | 95 | 95 | 83-127 | 1 | 30 | | | | |
| 1,2,3-Trichlorobenzene | 97 | 99 | 73-125 | 2 | 30 | | | | |
| 1,2,4-Trichlorobenzene | 98 | 99 | 77-120 | 1 | 30 | | | | |
| 1,1,1-Trichloroethane | 104 | 103 | 85-140 | 1 | 30 | | | | |
| 1,1,2-Trichloroethane | 99 | 98 | 85-129 | 0 | 30 | | | | |
| Trichloroethene | 101 | 100 | 85-131 | 0 | 30 | | | | |
| Trichlorofluoromethane | 93 | 92 | 73-139 | 1 | 30 | | | | |
| 1,2,3-Trichloropropane | 98 | 100 | 76-120 | 2 | 30 | | | | |
| 1,2,4-Trimethylbenzene | 99 | 98 | 87-126 | 1 | 30 | | | | |
| 1,3,5-Trimethylbenzene | 99 | 99 | 89-129 | 1 | 30 | | | | |
| Vinyl Chloride | 71 | 72 | 62-135 | 1 | 30 | | | | |
| Xylene (Total) | 96 | 95 | 81-137 | 1 | 30 | | | | |

| Batch number: 132901848002 | Sample number(s): 7239790-7239806 | UNSPK: 7239796 | BKG: 7239796 | | | | | | |
|----------------------------|-----------------------------------|----------------|--------------|---|----|--------|--------|-------|----|
| Arsenic | 105 | 103 | 81-123 | 2 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Barium | 103 | 103 | 78-118 | 1 | 20 | 0.0329 | 0.0334 | 1 | 20 |
| Cadmium | 103 | 102 | 83-116 | 1 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Calcium | 102 | 97 | 75-125 | 2 | 20 | 4.98 | 5.01 | 1 | 20 |
| Chromium | 102 | 102 | 76-120 | 0 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Lead | 105 | 105 | 75-125 | 0 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Magnesium | 102 | 98 | 75-125 | 2 | 20 | 2.45 | 2.47 | 1 | 20 |
| Nickel | 105 | 105 | 86-115 | 1 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Selenium | 104 | 104 | 75-125 | 0 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Silver | 92 | 91 | 75-125 | 2 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Vanadium | 102 | 102 | 90-117 | 1 | 20 | N.D. | N.D. | 0 (1) | 20 |

| Batch number: 132905713001 | Sample number(s): 7239790-7239806 | UNSPK: 7239799 | BKG: 7239799 | | | | | | |
|----------------------------|-----------------------------------|----------------|--------------|---|----|------|------|-------|----|
| Mercury | 110 | 112 | 80-120 | 2 | 20 | N.D. | N.D. | 0 (1) | 20 |

| Batch number: 13296807902A | Sample number(s): 7239790-7239805 | UNSPK: 7239791 | | | | | | | |
|----------------------------|-----------------------------------|----------------|--------|--|--|--|--|--|--|
| HEM (oil & grease) | 2* | | 78-114 | | | | | | |

*- 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.

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 10/24/13 at 10:20 AM

Group Number: 1426979

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX 25-ml purge

Batch number: I132911AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 7239790 | 103 | 104 | 97 | 95 |
| 7239791 | 105 | 105 | 97 | 95 |
| 7239792 | 104 | 108 | 96 | 95 |
| 7239793 | 105 | 106 | 96 | 95 |
| 7239794 | 104 | 104 | 96 | 95 |
| 7239795 | 105 | 107 | 97 | 97 |
| 7239796 | 103 | 107 | 96 | 96 |
| 7239797 | 104 | 106 | 96 | 95 |
| 7239798 | 104 | 108 | 96 | 96 |
| 7239799 | 105 | 104 | 96 | 95 |
| 7239800 | 105 | 106 | 97 | 94 |
| 7239801 | 105 | 108 | 97 | 96 |
| 7239802 | 104 | 108 | 97 | 96 |
| 7239803 | 105 | 108 | 96 | 96 |
| 7239804 | 104 | 106 | 96 | 95 |
| 7239805 | 105 | 107 | 97 | 95 |
| 7239806 | 103 | 106 | 97 | 95 |
| 7239807 | 103 | 104 | 97 | 95 |
| Blank | 103 | 105 | 97 | 96 |
| LCS | 104 | 106 | 97 | 98 |
| MS | 104 | 107 | 97 | 99 |
| MSD | 105 | 106 | 97 | 98 |
| <hr/> | | | | |
| Limits: | 77-114 | 74-113 | 77-110 | 78-110 |

Analysis Name: PAHs in waters by SIM

Batch number: 13290WAR026

| | Fluoranthene-d10 | Benzo(a)pyrene-d12 | 1-Methylnaphthalene-d10 |
|---------|------------------|--------------------|-------------------------|
| 7239790 | 98 | 84 | 101 |
| 7239791 | 94 | 70 | 102 |
| 7239792 | 96 | 82 | 100 |
| 7239793 | 97 | 79 | 97 |
| 7239794 | 95 | 79 | 100 |
| 7239795 | 98 | 78 | 99 |
| 7239796 | 96 | 74 | 103 |
| 7239797 | 81 | 85 | 103 |
| 7239798 | 87 | 80 | 100 |
| 7239799 | 100 | 70 | 103 |
| 7239800 | 85 | 65 | 103 |
| 7239801 | 91 | 89 | 105 |
| 7239802 | 80 | 83 | 101 |
| 7239803 | 78 | 73 | 104 |
| 7239804 | 87 | 86 | 104 |
| 7239805 | 85 | 82 | 100 |
| 7239806 | 98 | 94 | 104 |
| Blank | 99 | 103 | 103 |
| LCS | 95 | 101 | 104 |

*- 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.

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 10/24/13 at 10:20 AM

Group Number: 1426979

Surrogate Quality Control

| | | | |
|---------|--------|--------|--------|
| LCSD | 95 | 103 | 102 |
| Limits: | 44-137 | 62-141 | 51-136 |

*- Outside of specification

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

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only

Group # 1426979 Sample # 7239790-807

Instructions on reverse side correspond with circled numbers.

pg 1 of 2

| 1 Client Information | | | | 4 Matrix | | | | 5 Analyses Requested | | | | | | | | 6 Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Facility #/SID <u>Mayflower Pipeline Incident</u> | | | | Soil <input type="checkbox"/> | Sediment <input type="checkbox"/> | Potable <input type="checkbox"/> | Ground <input type="checkbox"/> | NPDES <input type="checkbox"/> | Surface <input checked="" type="checkbox"/> | Oil <input type="checkbox"/> | Air <input type="checkbox"/> | Preservation Code | | | | | | | | SCR#: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site Address <u>Mayflower, AR</u> | | | | | | | | | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">H</th> <th style="width: 5%;">N</th> <th style="width: 5%;">S</th> <th style="width: 5%;">T</th> <th style="width: 5%;">B</th> <th style="width: 5%;">O</th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> | | | | | | | | H | N | S | T | B | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | N | S | T | B | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ExxonMobil PM <u>Scott Bushroe</u> | | | | Total # of Containers | | | | VOCs 8260B PAH 8270 SIM PCPA Metals + Ni, V, Cr, Mg Diss Metals HEM Oil & Grease | | | | | | | | Lab to filter and pressure diss. metals upon receipt. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Consultant/Office <u>ARCADIS</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Consultant PM <u>Steve Barrick</u> | | | | Consultant Phone # <u>919-302-6799</u> | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">Date</th> <th style="width: 5%;">Time</th> <th style="width: 5%;">Grab</th> <th style="width: 5%;">Composite</th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> <th style="width: 5%;"> </th> </tr> <tr> <td><u>10-16-13</u></td> <td><u>820</u></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> 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<td><u>10-16-13</u></td> <td><u>910</u></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><u>10-16-13</u></td> <td><u>920</u></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input 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| <u>10-16-13</u> | <u>920</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>10-16-13</u> | <u>940</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>10-16-13</u> | <u>1000</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>10-16-13</u> | <u>1040</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>10-16-13</u> | <u>1050</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>10-16-13</u> | <u>1110</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>10-16-13</u> | <u>1150</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input 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| Date | Time | Grab | Composite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>10-16-13</u> | <u>820</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>10-16-13</u> | <u>830</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>10-16-13</u> | <u>840</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>10-16-13</u> | <u>850</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>10-16-13</u> | <u>910</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>10-16-13</u> | <u>920</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>10-16-13</u> | <u>940</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>10-16-13</u> | <u>1000</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>10-16-13</u> | <u>1040</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>10-16-13</u> | <u>1050</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>10-16-13</u> | <u>1110</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>10-16-13</u> | <u>1150</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 <u>Daniel Mays</u> | Date <u>10-16-13</u> | Time <u>1600</u> | Received by | Date | Time |
| Relinquished by | Date | Time | Received by | Date | Time |
| Relinquished by | Date | Time | Received by | Date | Time |
| Relinquished by Commercial Carrier | UPS <input checked="" type="checkbox"/> FedEx _____ Other _____ | | Received by <u>CS</u> | Date <u>10/17/13</u> | Time <u>0930</u> |
| Temperature Upon Receipt <u>0.7-1.7 °C</u> | | | Custody Seals Intact? <u>Yes</u> No | | |

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only

Group # 1426979 Sample # 7239790-807

Instructions on reverse side correspond with circled numbers.

pg 2 of 2

| 1 Client Information | | | | 4 Matrix | | | | 5 Analyses Requested | | | | | | | | SCR#: _____ | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|---|------------|--|--|------|--|-------------------------------------|--|---------------------|--|-----------------|--|--|---|-------------|-------------------|------------|---|------------|--|---|---|--------------|--|---|---|------------------------|--|---|---|-------------|--|---|---|-------------|--|---|---|------------------|
| Facility #/SID <u>Mayflower Pipeline Incident</u> | | | | Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/> | Preservation Code | | | | | | | | Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site Address <u>Mayflower, AR</u> | | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>#</th> <th>Analysis</th> <th>Preservation Code</th> <th>Containers</th> </tr> <tr> <td>9</td> <td>VOLs 8260B</td> <td></td> <td>9</td> </tr> <tr> <td>9</td> <td>PAH 8270 SIM</td> <td></td> <td>9</td> </tr> <tr> <td>9</td> <td>hardness Ni, V, Ca, Mg</td> <td></td> <td>9</td> </tr> <tr> <td>9</td> <td>RCRA Metals</td> <td></td> <td>9</td> </tr> <tr> <td>7</td> <td>Diss Metals</td> <td></td> <td>7</td> </tr> <tr> <td>2</td> <td>HEM Oil & Grease</td> <td></td> <td>2</td> </tr> </table> | | | | | | | | | | # | Analysis | Preservation Code | Containers | 9 | VOLs 8260B | | 9 | 9 | PAH 8270 SIM | | 9 | 9 | hardness Ni, V, Ca, Mg | | 9 | 9 | RCRA Metals | | 9 | 7 | Diss Metals | | 7 | 2 | HEM Oil & Grease |
| # | Analysis | Preservation Code | Containers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | VOLs 8260B | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | PAH 8270 SIM | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | hardness Ni, V, Ca, Mg | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | RCRA Metals | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Diss Metals | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | HEM Oil & Grease | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ExxonMobil PM <u>Scott Bushrae</u> | | Cost Center/AFE | | Grab <input type="checkbox"/> Composite <input type="checkbox"/> | | | | | | | | | | 6 Remarks Lab to filter and pressure diss. metals upon receipt | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Consultant/Office <u>ARCADIS</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Consultant PM <u>Steve Barrick</u> | | Consultant Phone # <u>919-302-6799</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler <u>Hans Van Aller / Daniel Mays</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Sample Identification | | | | Collected Date Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Identification | | Date | | | | Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>WS-003 (surface)</u> | | <u>10/16/13</u> | | <u>1206</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>WS-007 (0.5-1.0)</u> | | <u>10/16/13</u> | | <u>1240</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>WS-001 (0.5-1.0)</u> | | <u>10/16/13</u> | | <u>1300</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>DUP-WS-103</u> | | <u>10/16/13</u> | | <u>---</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>WS-EB-93</u> | | <u>10/16/13</u> | | <u>1330</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>WS-TB-178</u> | | <u>10/16/13</u> | | <u>---</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 Turnaround Time Requested (TAT) (please circle) | | | | Relinquished by <u>Daniel Mays</u> | | | | Date <u>10-16-13</u> | | Time <u>1600</u> | | Received by | | Date | | Time | | | | | | | | | | | | | | | | | | | | | | | | |
| Standard <u>5 day</u> 4 day | | | | Relinquished by | | | | Date | | Time | | Received by | | Date | | Time | | | | | | | | | | | | | | | | | | | | | | | | |
| 72 hour 48 hour 24 hour | | | | Relinquished by | | | | Date | | Time | | Received by | | Date | | Time | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 Data Package (circle if required) | | | | Relinquished by Commercial Carrier | | | | Received by | | | | Date | | Time | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type I - Full | | | | UPS <input checked="" type="checkbox"/> FedEx _____ Other _____ | | | | <u>Co. [Signature]</u> | | | | <u>10/17/13</u> | | <u>0930</u> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type VI (Raw Data) | | | | Temperature Upon Receipt <u>0.7 - 1.7</u> °C | | | | Custody Seals Intact? <u>Yes</u> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NJ Reduced | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

Environmental Sample Administration
Receipt Documentation Log

1426979

Client/Project: Mayflower
Date of Receipt: 10/17/13
Time of Receipt: 0930
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 | 1.0 | TB | WI | Y | B | |
| 2 | | 0.8 | | | | | |
| 3 | | 1.7 | | | | | |
| 4 | | 1.2 | | | | | |
| 5 | | 0.7 | | | | | |
| 6 | | 0.7 | | | | | |

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

Paperwork Discrepancy/Unpacking Problems:

1 broken O+G jar for VS-014 (1.5-2.0) 10/13 @ 820

Unpacker Signature/Emp#: C. Fisher 3647 Date/Time: 10/17/13 1008

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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