ANALYTICAL RESULTS

Prepared by:
Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:
ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

May 30, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/24/2013
Group Number: 1392314
SDG: PEH77
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description
Lancaster Labs (LLI) #
WS-003(Surface)052313 Grab Surface Water 7068969
WS-002(Surface)052313 Grab Surface Water 7068970
WS-BKG-002(Surface)052313 Grab Surface Water 7068971
WS-005(Surface)052313 Grab Surface Water 7068972
WS-008(Surface)052313 Grab Surface Water 7068973
WS-008(Surface)052313MS Grab Surface Water 7068974
WS-008(Surface)052313MSD Grab Surface Water 7068975
WS-008(Surface)052313DUP Grab Surface Water 7068976
WS-001(Surface)052313 Grab Surface Water 7068977
WS-001(0.5-1.0)052313 Grab Surface Water 7068978
WS-004(Surface)052313 Grab Surface Water 7068979
WS-004(0.5-1.0)052313 Grab Surface Water 7068980
WS-007(Surface)052313 Grab Surface Water 7068981
WS-007(0.5-1.0)052313 Grab Surface Water 7068982
WS-006(Surface)052313 Grab Surface Water 7068983
WS-006(0.5-1.0)052313 Grab Surface Water 7068984
WS-TB-51-052313 Water 7068985

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

ELECTRONIC COPY TO
ARCADIS Attn: Stephen Barrick
ELECTRONIC COPY TO
ARCADIS Attn: Lyndi Mott
ELECTRONIC COPY TO
ExxonMobil Attn: Michael J. Firth
Respectfully Submitted,

[Signature]

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256
Case Narrative

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1392314

General Comments:

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

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

Project specific QC samples are included in this data set.

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

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

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

Analysis Specific Comments:

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

Batch #: 13144WAH026 (Sample number(s): 7068969-7068975, 7068977-7068984 UNSPK: 7068973)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7068979, 7068980, 7068981, 7068982

**SW-846 6010B, Metals**

Batch #: 131441848001 (Sample number(s): 7068969-7068984 UNSPK: 7068973 BKG: 7068973)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Cadmium
### Analysis Report

**Sample Description:** WS-003(Surface)052313 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

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

Collected: 05/23/2013 09:00  
Submitted: 05/24/2013 09:15  
Reported: 05/30/2013 09:57

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<table>
<thead>
<tr>
<th>CAT No.</th>
<th>Analysis Name</th>
<th>CAS Number</th>
<th>As Received Result</th>
<th>As Received Method Detection Limit</th>
<th>As Received Limit of Quantitation</th>
<th>Dilution Factor</th>
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<tbody>
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</tbody>
</table>

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

Sample Description: WS-003(Surface)052313 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:00  
Submitted: 05/24/2013 09:15  
Reported: 05/30/2013 09:57  

**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**  

| CAT No. | n-Propylbenzene | 103-65-1 | N.D. | 0.1 | 0.5 | 1 |
| CAT No. | Styrene | 100-42-5 | N.D. | 0.1 | 0.5 | 1 |
| CAT No. | 1,1,1,2-Tetrachloroethane | 630-20-6 | N.D. | 0.1 | 0.5 | 1 |
| CAT No. | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 0.1 | 0.5 | 1 |
| CAT No. | Tetrachloroethene | 127-18-4 | N.D. | 0.1 | 0.5 | 1 |
| CAT No. | Tetrahydrofuran | 109-99-9 | N.D. | 2.0 | 5.0 | 1 |
| CAT No. | Toluene | 108-88-3 | 0.2 J | 0.1 | 0.5 | 1 |
| CAT No. | 1,2,3-Trichlorobenzene | 87-61-6 | N.D. | 0.1 | 0.5 | 1 |
| CAT No. | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 0.1 | 0.5 | 1 |
| CAT No. | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.1 | 0.5 | 1 |
| CAT No. | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 0.1 | 0.5 | 1 |
| CAT No. | 1,2-Chloroethene | 79-01-6 | N.D. | 0.1 | 0.5 | 1 |
| CAT No. | 1,2,3-Trichlorofluoromethane | 75-69-4 | N.D. | 0.1 | 0.5 | 1 |
| CAT No. | 1,2,4-Trichloropropane | 96-18-4 | N.D. | 0.3 | 1.0 | 1 |
| CAT No. | 1,2,4-Timethylbenzene | 95-63-6 | N.D. | 0.1 | 0.5 | 1 |
| CAT No. | Vinyl Chloride | 75-01-4 | N.D. | 0.1 | 0.5 | 1 |
| CAT No. | Xylene (Total) | 1330-20-7 | N.D. | 0.1 | 0.5 | 1 |

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

| CAT No. | Acenaphthene | 83-32-9 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | Acenaphthylene | 208-94-8 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | Anthracene | 120-12-7 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | Benzo[a]anthracene | 56-55-3 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | Benzo[a]pyrene | 50-32-8 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | Benzo[b]fluoranthene | 205-99-2 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | Benzo[g,h,i]perylene | 191-24-2 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | Benzo[k]fluoranthene | 207-08-9 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | Chrylene | 218-01-9 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | Dibenzo[a,h]anthracene | 53-70-3 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | Fluoranthene | 206-44-0 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | Flourene | 86-73-7 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | Indeno[1,2,3-cd]pyrene | 193-39-5 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | 1-Methylnaphthalene | 90-12-0 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | 2-Methylnaphthalene | 91-57-6 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | Naphthalene | 91-20-3 | G.056 | 0.031 | 0.052 | 1 |
| CAT No. | Phenanthrene | 85-01-8 | N.D. | 0.010 | 0.052 | 1 |
| CAT No. | Pyrene | 129-00-0 | N.D. | 0.010 | 0.052 | 1 |

**Metals**  
**SM 2340 B-1997**

| CAT No. | Total Hardness as CaCO3 | 471-34-1 | 18.0 | 0.064 | 0.20 | 1 |

**Metals**  
**SW-846 6010B**

| CAT No. | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| CAT No. | Barium | 7440-39-3 | G.0208 | 0.00033 | 0.0050 | 1 |
| CAT No. | Cadmium | 7440-43-9 | N.D. | 0.00036 | 0.0050 | 1 |
| CAT No. | Calcium | 7440-70-2 | 3.99 | 0.0640 | 0.200 | 1 |

* *= This limit was used in the evaluation of the final result
**Sample Description:** WS-003(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

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

Collected: 05/23/2013 09:00 by JO
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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### Metals

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<th>Analysis Name</th>
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<th>As Received Limit of Quantitation</th>
<th>CAS Number</th>
<th>Dilution Factor</th>
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**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.

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**Laboratory Sample Analysis Record**

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<th>Analysis Name</th>
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<th>Trial#</th>
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<th>Analyst</th>
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*This limit was used in the evaluation of the final result.
## Analysis Report

**Sample Description:** WS-002(Surface)052313 Grab Surface Water  
**Location:** Mayflower, AR  
**Pipeline Incident**

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

**Collected:** 05/23/2013 09:10  
**Submitted:** 05/24/2013 09:15  
**Reported:** 05/30/2013 09:57

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

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### GC/MS Volatiles

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*This limit was used in the evaluation of the final result*
**Sample Description:** WS-002(Surface)052313 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

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

**Collected:** 05/23/2013 09:10 by JO  
**Submitted:** 05/24/2013 09:15  
**Reported:** 05/30/2013 09:57

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*=This limit was used in the evaluation of the final result
**Sample Description:** WS-002(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

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

Collected: 05/23/2013 09:10 by JO
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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**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**

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*This limit was used in the evaluation of the final result.*
**Project Name:** Mayflower, AR Pipeline Incident  
**Collected:** 05/23/2013 09:20 by JO  
**Submitted:** 05/24/2013 09:15 ExxonMobil  
**Reported:** 05/30/2013 09:57 Mobil Pipeline Company  
**PO Box 4416**  
**Houston TX 77210-4416**

**Sample Description:** WS-BKG-002(Surface)052313 Grab Surface Water  
**Mayflower, AR**  
**Pipeline Incident**

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<th>As Received Method Detection Limit*</th>
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*This limit was used in the evaluation of the final result
Sample Description: WS-BKG-002(Surface)052313 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:20 by JO  
Submitted: 05/24/2013 09:15  
Reported: 05/30/2013 09:57

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| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0400 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00036 | 0.0050 | 1 |
| 01750 | Calcium | 7440-70-2 | 5.23 | 0.0640 | 0.2000 | 1 |

*This limit was used in the evaluation of the final result
Sample Description: WS-BKG-002(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:20 by JO
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

23BK2  SDG#: PEH77-03

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| SW-846 7470A | mg/l | mg/l | mg/l |                  |                  |                                   |                 |
|--------------|------|------|------|------------------|------------------|-----------------------------------|                 |
| 00259        | Mercury | 7439-97-6 | N.D. | 0.000070         | 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

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<th>Batch#</th>
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*=This limit was used in the evaluation of the final result
Sample Description: WS-005(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:40 by JO
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

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*This limit was used in the evaluation of the final result
### Project Name: Mayflower, AR Pipeline Incident

**Sample Description:** WS-005(Surface)052313 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

**Sample Description:**  
Mayflower, AR  
Pipeline Incident

**Collected:** 05/23/2013 09:40  
**Submitted:** 05/24/2013 09:15  
**Reported:** 05/30/2013 09:57

**Sample Description:** WS-005(Surface)052313 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

**Sample Description:**  
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**Collected:** 05/23/2013 09:40  
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### Analysis Report

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*This limit was used in the evaluation of the final result.*
Sample Description: WS-005(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:40 by JO  ExxonMobil
Submitted: 05/24/2013 09:15  Mobil Pipeline Company
Reported: 05/30/2013 09:57  PO Box 4416

Reported: 05/30/2013 09:57
PO Box 4416
Houston TX 77210-4416

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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

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

**Sample Description:** WS-008(Surface)052313 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

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

Collected: 05/23/2013 09:50 by JO  
Submitted: 05/24/2013 09:15  
Reported: 05/30/2013 09:57

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*= This limit was used in the evaluation of the final result
Sample Description: WS-008(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:50 by JO
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

---

### GC/MS Volatiles

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<th>As Received Limit of Quantitation</th>
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*This limit was used in the evaluation of the final result
## 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

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*=This limit was used in the evaluation of the final result
**Sample Description:** WS-008(Surface)052313MS Grab Surface Water

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

**Collected:** 05/23/2013 09:50    by JO

**Submitted:** 05/24/2013 09:15

**Reported:** 05/30/2013 09:57

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*This limit was used in the evaluation of the final result.
Sample Description: WS-008(Surface)052313MS Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:50 by JO
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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<th>As Received Method Detection Limit*</th>
<th>As Received Limit of Quantitation</th>
<th>Dilution Factor</th>
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| GC/MS Semivolatiles SW-846 8270C SIM | | | ug/l | ug/l | ug/l | |
| 08357  | Acenaphthene | 83-32-9 | 0.99 | 0.010 | 0.051 | 1 |
| 08357  | Acenaphthylene | 208-96-9 | 1.0 | 0.010 | 0.051 | 1 |
| 08357  | Anthracene | 120-12-7 | 1.0 | 0.010 | 0.051 | 1 |
| 08357  | Benzo[a]anthracene | 56-55-3 | 1.2 | 0.010 | 0.051 | 1 |
| 08357  | Benzo[a]pyrene | 50-32-8 | 0.84 | 0.010 | 0.051 | 1 |
| 08357  | Benzo[b]fluoranthene | 205-99-2 | 0.97 | 0.010 | 0.051 | 1 |
| 08357  | Benzo(g,h,i)perylene | 191-24-2 | 0.92 | 0.010 | 0.051 | 1 |
| 08357  | Benzo[k]fluoranthene | 207-08-9 | 0.93 | 0.010 | 0.051 | 1 |
| 08357  | Chrysene | 218-01-9 | 0.94 | 0.010 | 0.051 | 1 |
| 08357  | Dibenz[a,h]anthracene | 53-70-3 | 0.88 | 0.010 | 0.051 | 1 |
| 08357  | Fluoranthe | 206-44-0 | 1.0 | 0.010 | 0.051 | 1 |
| 08357  | Fluorene | 86-73-7 | 1.0 | 0.010 | 0.051 | 1 |
| 08357  | Indeno[1,2,3-cd]pyrene | 193-39-5 | 0.94 | 0.010 | 0.051 | 1 |
| 08357  | 1-Methylnaphthalene | 90-12-0 | 1.1 | 0.010 | 0.051 | 1 |
| 08357  | 2-Methylnaphthalene | 91-57-6 | 1.1 | 0.010 | 0.051 | 1 |
| 08357  | Naphthalene | 91-20-3 | 1.0 | 0.031 | 0.051 | 1 |
| 08357  | Phenanthrene | 85-01-8 | 0.98 | 0.031 | 0.051 | 1 |
| 08357  | Pyrene | 129-00-0 | 1.2 | 0.010 | 0.051 | 1 |

| Metals SM 2340 B-1997 | | | mg/l | mg/l | mg/l | |
| 06256  | Total Hardness as CaCO3 | 471-34-1 | 44.2 | 0.064 | 0.20 | 1 |

| SW-846 6010B | | | mg/l | mg/l | mg/l | |
| 07035  | Arsenic | 7440-38-2 | 0.158 | 0.0068 | 0.0200 | 1 |
| 07046  | Barium | 7440-39-3 | 2.13 | 0.00033 | 0.0050 | 1 |
| 07049  | Cadmium | 7440-43-9 | 0.0511 | 0.00036 | 0.0050 | 1 |
| 01750  | Calcium | 7440-70-2 | 9.25 | 0.0640 | 0.200 | 1 |

*This limit was used in the evaluation of the final result
Sample Description: WS-008(Surface)052313MS Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 09:50 by JO
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

23008  SDG#: PEH77-05MS

### Metals

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<th>As Received Result</th>
<th>As Received Method Detection Limit*</th>
<th>As Received Limit of Quantitation</th>
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### SW-846 7470A

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**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.

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**Laboratory Sample Analysis Record**

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<th>Trial#</th>
<th>Batch#</th>
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*This limit was used in the evaluation of the final result
**Sample Description:** WS-008(Surface)052313MSD Grab Surface Water  
**Project Name:** Mayflower, AR Pipeline Incident  
**Collected:** 05/23/2013 09:50 by JO  
**Submitted:** 05/24/2013 09:15 ExxonMobil  
**Reported:** 05/30/2013 09:57 Mobil Pipeline Company  
**PO Box 4416 Houston TX 77210-4416**  

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*This limit was used in the evaluation of the final result
**Sample Description:** WS-008(Surface) 052313MSD Grab Surface Water

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

**Collected:** 05/23/2013 09:50 by JO

**Submitted:** 05/24/2013 09:15

**Reported:** 05/30/2013 09:57

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**Metals**

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

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*This limit was used in the evaluation of the final result
### Sample Description:

WS-008(Surface)052313DUP Grab Surface Water

Mayflower, AR

Pipeline Incident

---

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

- **Collected:** 05/23/2013 09:50 by JO
- **Submitted:** 05/24/2013 09:15
- **Reported:** 05/30/2013 09:57

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

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#### General Sample Comments

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*This limit was used in the evaluation of the final result*
Sample Description: WS-001(Surface)052313 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:20    by JO  
Submitted: 05/24/2013 09:15  
Reported:  05/30/2013 09:57  

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*=This limit was used in the evaluation of the final result
Sample Description: WS-001(Surface)052313 Grab Surface Water  
Mayflower, AR  
Pipeline Incident  

Collected: 05/23/2013 10:20 by JO  
Submitted: 05/24/2013 09:15  
Reported: 05/30/2013 09:57  

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

Page 27 of 61
Sample Description: WS-001(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:20 by JO
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

As Received Limit of Quantitation

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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

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*=This limit was used in the evaluation of the final result
**Sample Description:** WS-001(0.5-1.0)052313 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

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

Collected: 05/23/2013 10:30 by JO  
Submitted: 05/24/2013 09:15  
Reported: 05/30/2013 09:57

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

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*As Received Method Detection Limit* was used in the evaluation of the final result.
**Sample Description:** WS-001(0.5-1.0)052313 Grab Surface Water

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

**Collected:** 05/23/2013 10:30 by JO

**Submitted:** 05/24/2013 09:15

**Reported:** 05/30/2013 09:57

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### Metals

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*Note: *=This limit was used in the evaluation of the final result
Sample Description: WS-001(0.5-1.0)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:30 by JO
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

23012   SDG#: PEH77-07

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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.

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*This limit was used in the evaluation of the final result
**Sample Description:** WS-004(Surface)052313 Grab Surface Water  
**Project Name:** Mayflower, AR Pipeline Incident

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*This limit was used in the evaluation of the final result.*
Sample Description: WS-004(Surface)052313 Grab Surface Water Mayflower, AR Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:35 by JO ExxonMobil
Submitted: 05/24/2013 09:15 Mobil Pipeline Company
Reported: 05/30/2013 09:57 Houston TX 77210-4416

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<th>As Received Limit of Quantitation</th>
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*This limit was used in the evaluation of the final result
Sample Description: WS-004(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:35  by JO  ExxonMobil
Submitted: 05/24/2013 09:15  Mobil Pipeline Company
Reported: 05/30/2013 09:57

23041 SDG#: PEH77-08

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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 |
|---------|------------------------|                        |       |           |                        |               |          |
| 02898   | Silvertip & Mayflower  | SW-846 8260B 25mL purge | 1      | C131441AA | 05/24/2013 19:07       | Kerri E Legerlotz | 1        |
| 01163   | GC/MS VOA Water Prep   | SW-846 5030B           | 1      | C131441AA | 05/24/2013 19:07       | Kerri E Legerlotz | 1        |
| 08157   | PAHs in waters by SIM  | SW-846 8270C SIM       | 1      | 13144WAH026 | 05/27/2013 17:51    | Linda M Hartenstein | 1        |
| 10470   | BNA Water Extraction   | SW-846 3510C           | 1      | 13144WAH026 | 05/25/2013 10:00    | Seth A Farrier   | 1        |
| 06256   | Total Hardness as CaCO3| SM 2340 B-1997         | 1      | 131446256001 | 05/24/2013 21:42    | John P Hook     | 1        |
| 07035   | Arsenic                | SW-846 6010B           | 1      | 131441848001 | 05/24/2013 17:46    | John P Hook     | 1        |
| 07045   | Barium                 | SW-846 6010B           | 1      | 131441848001 | 05/24/2013 17:46    | John P Hook     | 1        |
| 07049   | Cadmium                | SW-846 6010B           | 1      | 131441848001 | 05/24/2013 17:46    | John P Hook     | 1        |
| 01750   | Calcium                | SW-846 6010B           | 1      | 131441848001 | 05/24/2013 17:46    | John P Hook     | 1        |
| 07051   | Chromium               | SW-846 6010B           | 1      | 131441848001 | 05/24/2013 17:46    | John P Hook     | 1        |
| 07055   | Lead                   | SW-846 6010B           | 1      | 131441848001 | 05/24/2013 17:46    | John P Hook     | 1        |
| 01757   | Magnesium              | SW-846 6010B           | 1      | 131441848001 | 05/24/2013 17:46    | John P Hook     | 1        |
| 07061   | Nickel                 | SW-846 6010B           | 1      | 131441848001 | 05/24/2013 17:46    | John P Hook     | 1        |
| 07036   | Selenium               | SW-846 6010B           | 1      | 131441848001 | 05/24/2013 17:46    | John P Hook     | 1        |
| 07066   | Silver                 | SW-846 6010B           | 1      | 131441848001 | 05/24/2013 17:46    | John P Hook     | 1        |
| 07071   | Vanadium               | SW-846 6010B           | 1      | 131441848001 | 05/24/2013 17:46    | John P Hook     | 1        |
| 00259   | Mercury                | SW-846 7470A           | 1      | 131445713001 | 05/25/2013 06:48    | Damary Valentin | 1        |
| 01848   | WW SW846 ICP Digest (tot rec)| SW-846 3005A | 1 | 131441848001 | 05/24/2013 17:46    | John P Hook     | 1        |
| 05713   | WW SW846 Hg Digest     | SW-846 7470A           | 1      | 131445713001 | 05/24/2013 15:30    | Nelli S Markaryan | 1        |

*=This limit was used in the evaluation of the final result
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* = This limit was used in the evaluation of the final result
Sample Description: WS-004(0.5-1.0)052313 Grab Surface Water Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:40 by JO ExxonMobil
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

### GC/MS Volatiles

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<th>As Received Method</th>
<th>Detection Limit*</th>
<th>As Received Limit of Quantitation</th>
<th>Dilution Factor</th>
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### GC/MS Semivolatiles

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<th>As Received Method</th>
<th>Detection Limit*</th>
<th>As Received Limit of Quantitation</th>
<th>Dilution Factor</th>
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### Metals

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<th>Analysis Name</th>
<th>CAS Number</th>
<th>As Received Result</th>
<th>As Received Method</th>
<th>Detection Limit*</th>
<th>As Received Limit of Quantitation</th>
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* = This limit was used in the evaluation of the final result
Sample Description: WS-004(0.5-1.0)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:40 by JO
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

Sample Description: WS-004(0.5-1.0)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

As Received
Limit of Quantitation
As Received
Method Detection Limit*
As Received
Result Analysis Name
CAS Number
m g/l m g/l m g/l
144 Metals

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<th>CAS Number</th>
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<th>As Received Method Detection Limit*</th>
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SW-846 7470A

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* = This limit was used in the evaluation of the final result.
### Analysis Report

**Sample Description:** WS-007(Surface)052313 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

- **Project Name:** Mayflower, AR Pipeline Incident
- **Collected:** 05/23/2013 10:45 by JO
- **Submitted:** 05/24/2013 09:15 ExxonMobil
- **Reported:** 05/30/2013 09:57 Mobil Pipeline Company

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*This limit was used in the evaluation of the final result
Sample Description: WS-007(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 10:45 by JO

Submitted: 05/24/2013 09:15

Reported: 05/30/2013 09:57

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

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| Metals SM 2340 B-1997 | Total Hardness as CaCO3 | 471-34-1 | 46.9 | 0.064 | 0.20 | 1 |

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<th>As Received Result</th>
<th>As Received Method Detection Limit*</th>
<th>As Received Limit of Quantitation</th>
<th>Dilution Factor</th>
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*=This limit was used in the evaluation of the final result
## Sample Description

**WS-007(Surface)**052313 Grab Surface Water

**Mayflower, AR**

**Pipeline Incident**

---

### 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

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<th>Analysis Name</th>
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<th>Trial# Batch#</th>
<th>Analysis Date and Time</th>
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*=This limit was used in the evaluation of the final result*
Sample Description: WS-007(0.5-1.0)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

*Limit of Quantitation

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*=This limit was used in the evaluation of the final result
### Sample Description: WS-007(0.5-1.0)052313 Grab Surface Water

#### Mayflower, AR

**Pipeline Incident**

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

**Collected:** 05/23/2013 10:50 by JO

**Submitted:** 05/24/2013 09:15

**Reported:** 05/30/2013 09:57

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<th>As Received Limit of Quantitation</th>
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* = This limit was used in the evaluation of the final result.
## 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

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*=This limit was used in the evaluation of the final result
Sample Description: WS-006(Surface) 052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 11:00 by JO
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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

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*=This limit was used in the evaluation of the final result
**Sample Description:** WS-006(Surface)052313 Grab Surface Water  
*Mayflower, AR Pipeline Incident*

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

**Collected:** 05/23/2013 11:00  
**Submitted:** 05/24/2013 09:15  
**Reported:** 05/30/2013 09:57

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<th>As Received Method Detection Limit</th>
<th>As Received Limit of Quantitation</th>
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| 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 | 0.012 | 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 | 0.013 | 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 | 0.034 | 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 | 0.031 | 0.051 | 1 |
| 08357 | Phenanthrene | 85-01-8 | N.D. | 0.031 | 0.051 | 1 |
| 08357 | Pyrene | 129-00-0 | 0.029 | 0.010 | 0.051 | 1 |

| **Metals** | SM 2340 B-1997 | | | | | |
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 17.4 | 0.064 | 0.20 | 1 |

| **SW-846 6010B** | | | | | | |
| 07035 | Arsenic | 7440-38-2 | N.D. | 0.0068 | 0.0200 | 1 |
| 07046 | Barium | 7440-39-3 | 0.0270 | 0.00033 | 0.0050 | 1 |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.00036 | 0.0050 | 1 |
| 01750 | Calcium | 7440-70-2 | 3.81 | 0.0640 | 0.200 | 1 |

*This limit was used in the evaluation of the final result*
Sample Description: WS-006(Surface)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 11:00 by JO
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

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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

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*=This limit was used in the evaluation of the final result
Sample Description: WS-006(0.5-1.0)052313 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

Collected: 05/23/2013 11:10 by JO  
Submitted: 05/24/2013 09:15  
Reported: 05/30/2013 09:57

As Received  
Limit of  
Quantitation

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*=This limit was used in the evaluation of the final result
**Sample Description:** WS-006(0.5-1.0)052313 Grab Surface Water

**Mayflower, AR Pipeline Incident**

**Collected:** 05/23/2013 11:10  
**Submitted:** 05/24/2013 09:15  
**Reported:** 05/30/2013 09:57

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### Analysis Report

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

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

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* *=This limit was used in the evaluation of the final result
Sample Description: WS-006(0.5-1.0)052313 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013 11:10 by JO
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

23062   SDG#: PEH77-13

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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

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<th>Batch#</th>
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*This limit was used in the evaluation of the final result
**Analysis Report**

**Sample Description:** WS-TB-51-052313 Water
Mayflower, AR
Pipeline Incident

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

**Collected:** 05/23/2013
**Submitted:** 05/24/2013 09:15
**Reported:** 05/30/2013 09:57

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

**As Received**
**Limit of**
**Quantitation**
**As Received**
**Method**
**Detection Limit**

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*=This limit was used in the evaluation of the final result
Sample Description: WS-TB-51-052313 Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/23/2013
Submitted: 05/24/2013 09:15
Reported: 05/30/2013 09:57

23T51  SDG#: PEH77-14TB*

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<th>CAT No.</th>
<th>Analysis Name</th>
<th>Method</th>
<th>Trial#</th>
<th>Batch#</th>
<th>Analysis Date and Time</th>
<th>Analyst</th>
<th>Dilution Factor</th>
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<td>1</td>
<td>C131441AA</td>
<td>05/24/2013 15:03</td>
<td>Kerri E Legerlotz</td>
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<td>C131441AA</td>
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</table>

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

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

<table>
<thead>
<tr>
<th>Analysis Name</th>
<th>Batch number: C131441AA</th>
<th>Sample number(s): 7068969-7068975, 7068977-7068985</th>
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<td>Bromochloromethane</td>
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<td>108 80-125</td>
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<td>Bromodichloromethane</td>
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<td>103 80-120</td>
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<tr>
<td>Bromoform</td>
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<td>sec-Butylbenzene</td>
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<td>1,2-Dichloroethane</td>
<td>N.D. 0.1 0.5 ug/l</td>
<td>102 80-127</td>
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<td>1,1-Dichloroethene</td>
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<td>113 80-123</td>
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*- 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  
**Group Number:** 1392314  
**Reported:** 05/30/13 at 09:57 AM

### Analysis Name Table

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<th>Blank Result</th>
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<th>LCS/LCSD %REC</th>
<th>Limits</th>
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### Additional Chemicals

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### Additional Elements

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**Notes:**

- * - 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                      Group Number: 1392314
Reported: 05/30/13 at 09:57 AM

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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

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* - 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.
### 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

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**Batch number:** 13144WAH026  
**Sample number(s):** 7068969-7068975, 7068977-7068984  
**UNSPK:** 7068973

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**Batch number:** 131441848001  
**Sample number(s):** 7068969-7068984  
**UNSPK:** 7068973  
**BKG:** 7068973

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**-** 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
Reported: 05/30/13 at 09:57 AM

### 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

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Batch number: 131445713001
Sample number(s): 7068969-7068984
UNSPK: 7068973
BKG: 7068973
Mercury
107     106     80-120     0 20 N.D.     N.D.     0 (1)   20

### 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.

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Limits: 77-114, 74-113, 77-110, 78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13144WAH026

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*- 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  
**Reported:** 05/30/13 at 09:57 AM  

### Surrogate Quality Control

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**Limits:** 64-120 62-141 58-134

* - 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.
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</table>

7 Turnaround Time Requested (TAT) (please circle)

<table>
<thead>
<tr>
<th>Standard</th>
<th>5 day</th>
<th>4 day</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 hour</td>
<td></td>
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</tbody>
</table>

8 Data Package (circle if required)

<table>
<thead>
<tr>
<th>Type I - Full</th>
<th>EDD (circle if required)</th>
<th>Type VI (Raw Data)</th>
<th>NJ Reduced</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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</tbody>
</table>

9 Requisitioned by

Requisitioned by Commercial Center

Temperature Upon Receipt 0.5 C

Custody Seals Intact? Yes No

Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300
The white copy should accompany samples to Eurofins Lancaster Laboratories. The yellow copy should be retained by the client.
# ExxonMobil Analysis Request/Chain of Custody

## 1. Client Information

<table>
<thead>
<tr>
<th>Facility#/SID</th>
<th>Mayflower Pipeline Incident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Address</td>
<td>Mayflower, AR</td>
</tr>
<tr>
<td>ExxonMobil PM</td>
<td>Scott Bushme</td>
</tr>
<tr>
<td>Cost Center/AFE</td>
<td></td>
</tr>
<tr>
<td>Consultant/Office</td>
<td>ARCADIS US</td>
</tr>
<tr>
<td>Consultant PM</td>
<td>Steve Barrick</td>
</tr>
<tr>
<td>Consultant Phone #</td>
<td>919-302-6997</td>
</tr>
<tr>
<td>Sampler</td>
<td>Joshua Oliver/Hans UnAller</td>
</tr>
<tr>
<td>Phone #</td>
<td>315-857-5743</td>
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</table>

## 2. Sample Identification

<table>
<thead>
<tr>
<th>Sample</th>
<th>Type</th>
<th>Date</th>
<th>Time</th>
<th>Collected</th>
<th>Grab</th>
<th>Composite</th>
<th>Soil</th>
<th>Water</th>
<th>Oil</th>
<th>Total # of Containers</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-006</td>
<td>Surface</td>
<td>5/23/13</td>
<td>1100</td>
<td>X</td>
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<tr>
<td>WS-006</td>
<td>Water</td>
<td>5/23/13</td>
<td>1100</td>
<td>X</td>
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<tr>
<td>WS-01</td>
<td>Sediment</td>
<td>5/23/13</td>
<td>1100</td>
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</tr>
</tbody>
</table>

## 3. Turnaround Time Requested (TAT) (please circle)

- Standard: 5 day
- 72 hour: 48 hour
- 24 hour

## 4. Matrix

<table>
<thead>
<tr>
<th>H</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 5. Analyses Requested

- Preservation Codes
  - H = HCl
  - T = Thiosulfate
  - N = HNO₃
  - B = NaOH
  - S = H₂SO₄
  - O = Other

## 6. Remarks

Data: Analyte's Questions

Lynne Matt
Archives

## 7. Data Package (circle if required)

- Type I - Full
- Type VI (Raw Data)
- Other

## 8. Data Package (circle if required)

<table>
<thead>
<tr>
<th>EDD (circle if required)</th>
<th>Locus EIM (default)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
<td>Other</td>
</tr>
</tbody>
</table>

## 9. Temperature Upon Receipt

- 0.5 °C

## Custody Seals Intact

- Yes
- No

---

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Environmental Sample Administration
Receipt Documentation Log

Client/Project: XOM Mayflower  
Shipping Container Sealed: YES  NO
Date of Receipt: 5/24/13  
Custody Seal Present*: YES  NO
Time of Receipt: 0915  
* Custody seal was intact unless otherwise noted in the discrepancy section
Source Code: 50-1  
Package: Chilled  Not Chilled

<table>
<thead>
<tr>
<th>Cooler #</th>
<th>Thermometer ID</th>
<th>Temperature (°C)</th>
<th>Temp Bottle (TB) or Surface Temp (ST)</th>
<th>Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)</th>
<th>Ice Present? Y/N</th>
<th>Loose (L) Bagged Ice (B) or NA</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DT121</td>
<td>0.5</td>
<td>TB</td>
<td>WI</td>
<td>Y</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>0.5</td>
<td>J</td>
<td>J</td>
<td>Y</td>
<td>J</td>
<td></td>
</tr>
<tr>
<td>3</td>
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<td></td>
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<td>6</td>
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</tbody>
</table>

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

Paperwork Discrepancy/Unpacking Problems:


Unpacker Signature/Emp#: Barneslund /208  
Date/Time: 5/24/13 09:30

Issued by Dept. 6042 Management

2174.06
Explanation of Symbols and Abbreviations

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

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL</td>
<td>Reporting Limit</td>
</tr>
<tr>
<td>BMQL</td>
<td>Below Minimum Quantitation Level</td>
</tr>
<tr>
<td>N.D.</td>
<td>none detected</td>
</tr>
<tr>
<td>BMQL</td>
<td>Below Minimum Quantitation Level</td>
</tr>
<tr>
<td>TNTOC</td>
<td>Too Numerous To Count</td>
</tr>
<tr>
<td>IU</td>
<td>International Units</td>
</tr>
<tr>
<td>umhos/cm</td>
<td>micromhos/cm</td>
</tr>
<tr>
<td>C</td>
<td>degrees Celsius</td>
</tr>
<tr>
<td>meq</td>
<td>milliequivalents</td>
</tr>
<tr>
<td>g</td>
<td>gram(s)</td>
</tr>
<tr>
<td>µg</td>
<td>microgram(s)</td>
</tr>
<tr>
<td>mL</td>
<td>milliliter(s)</td>
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<tr>
<td>m3</td>
<td>cubic meter(s)</td>
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<tr>
<td>IU</td>
<td>International Units</td>
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<tr>
<td>NTU</td>
<td>nephelometric turbidity units</td>
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<tr>
<td>ng</td>
<td>nanogram(s)</td>
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<tr>
<td>F</td>
<td>degrees Fahrenheit</td>
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<td>kilogram(s)</td>
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<tr>
<td>mg</td>
<td>milligram(s)</td>
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<tr>
<td>µL</td>
<td>microliter(s)</td>
</tr>
<tr>
<td>pg/L</td>
<td>picogram/liter</td>
</tr>
</tbody>
</table>
<  | 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 |
J  | estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ). |
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 of gas 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. |

U.S. EPA CLP Data Qualifiers:

<table>
<thead>
<tr>
<th>Organic Qualifiers</th>
<th>Inorganic Qualifiers</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>B</td>
<td>E</td>
</tr>
<tr>
<td>C</td>
<td>M</td>
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<td>U</td>
</tr>
<tr>
<td>P</td>
<td>W</td>
</tr>
<tr>
<td>U</td>
<td>*</td>
</tr>
</tbody>
</table>

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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3768.07
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