ANALYTICAL RESULTS

Prepared by:
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2425 New Holland Pike
Lancaster, PA 17601

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

May 09, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/03/2013
Group Number: 1387367
SDG: PEH03
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description

<table>
<thead>
<tr>
<th>Sample Description</th>
<th>Lancaster Labs (LLI) #</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS-003(SURFACE)050213 Grab Surface Water</td>
<td>7043755</td>
</tr>
<tr>
<td>WS-002(SURFACE)050213 Grab Surface Water</td>
<td>7043756</td>
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<td>WS-005(SURFACE)050213 Grab Surface Water</td>
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<td>WS-008(SURFACE)050213 Grab Surface Water</td>
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<td>WS-001(SURFACE)050213 Grab Surface Water</td>
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<tr>
<td>WS-001(0.5-1.0)050213 Grab Surface Water</td>
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<td>WS-004(SURFACE)050213 Grab Surface Water</td>
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<td>WS-004(0.5-1.0)050213 Grab Surface Water</td>
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<td>WS-007(0.5-1.0)050213 Grab Surface Water</td>
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<td>WS-006(0.5-1.0)050213 Grab Surface Water</td>
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<td>WS-DUP-19-050213 Grab Surface Water</td>
<td>7043767</td>
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<tr>
<td>WS-TB31-050213 Water</td>
<td>7043768</td>
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</tbody>
</table>

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
ARCADIS Attn: Lyndi Mott
ExxonMobil Attn: Scott Bushroe
ExxonMobil Attn: Michael J. Firth
ARCADIS Attn: Emily Leamer
Respectfully Submitted,

Katherine A. Klinefelter  
Principal Specialist  
(717) 556-7256
Case Narrative

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1387367

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 8260B 25mL purge, GC/MS Volatiles**

Batch #: 1131251AA (Sample number(s): 7043755-7043768 UNSPK: 7043755)

The recovery(ies) for the following analyte(s) in the LCS exceeded the acceptance window indicating a positive bias: tert-Butylbenzene, 1,4-Dichlorobenzene

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: 2-Chlorotoluene, 4-Chlorotoluene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, p-Isopropyltoluene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene

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

Batch #: 13123WAH026 (Sample number(s): 7043755-7043767)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7043761, 7043762, 7043763, 7043764, 7043766

Sample #s: 7043755, 7043756, 7043757, 7043758, 7043759, 7043760, 7043765, 7043767

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

Sample #s: 7043761, 7043762, 7043763, 7043764, 7043766

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

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.
The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Magnesium

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

**Sample Description:** WS-003(SURFACE)050213 Grab Surface Water  
**Mayflower, AR**  
**Pipeline Incident**

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

Collected: 05/02/2013 09:50 by AD  
Submitted: 05/03/2013 09:30  
Reported: 05/09/2013 11:27  

<table>
<thead>
<tr>
<th>Analysis Name</th>
<th>CAS Number</th>
<th>As Received Result</th>
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<th>Dilution Factor</th>
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<td>CAT No.</td>
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</table>

*This limit was used in the evaluation of the final result
Sample Description: WS-003(SURFACE)050213 Grab Surface Water

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 09:50 by AD
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Reported: 05/09/2013 11:27

### GC/MS Volatiles

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### GC/MS Semivolatiles

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

### Metals

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The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.
Sample Description: WS-003(SURFACE)050213 Grab Surface Water Mayflower, AR Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 09:50 by AD
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

3S502 SDG#: PEH03-01

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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-002(SURFACE)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

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

**Collected:** 05/02/2013 10:30 by AD

**Submitted:** 05/03/2013 09:30

**Reported:** 05/09/2013 11:27

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

**Sample Description:** WS-002(SURFACE)050213 Grab Surface Water Mayflower, AR Pipeline Incident

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

**Collected:** 05/02/2013 10:30  
**Submitted:** 05/03/2013 09:30  
**Reported:** 05/09/2013 11:27

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

**Metals**

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

*This limit was used in the evaluation of the final result*
Sample Description: WS-002(SURFACE)050213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 10:30 by AD  
Submitted: 05/03/2013 09:30  
Reported: 05/09/2013 11:27  

2S502  SDG#: PEH03-02

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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-005(SURFACE)050213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

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

**Collected:** 05/02/2013 11:45 by AD  
**Submitted:** 05/03/2013 09:30

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

**Reported:** 05/09/2013 11:27

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

Page 11 of 54
**Sample Description:** WS-005(SURFACE)050213 Grab Surface Water Mayflower, AR Pipeline Incident

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

**Sample **Location:** Mayflower, AR

**Worked by:** AD

**Submitted:** 05/03/2013 09:30

**Reported:** 05/09/2013 11:27

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| 08357 | 208-96-0 | Acenaphthylene | 0.011 | 0.053 | 1 |
| 08357 | 120-12-7 | Anthracene | 0.011 | 0.053 | 1 |
| 08357 | 56-55-3 | Benzo(a)anthracene | 0.011 | 0.053 | 1 |
| 08357 | 50-32-8 | Benzo(a)pyrene | 0.011 | 0.053 | 1 |
| 08357 | 205-99-2 | Benzo(b)fluoranthene | 0.011 | 0.053 | 1 |
| 08357 | 191-24-2 | Benzo(g,h,i)perylene | 0.011 | 0.053 | 1 |
| 08357 | 207-08-9 | Benzo(k)fluoranthene | 0.011 | 0.053 | 1 |
| 08357 | 218-01-9 | Chrysene | 0.011 | 0.053 | 1 |
| 08357 | 53-70-3 | Dibenz(a,h)anthracene | 0.011 | 0.053 | 1 |
| 08357 | 206-44-0 | Fluoranthenes | 0.011 | 0.053 | 1 |
| 08357 | 86-73-7 | Fluorene | 0.011 | 0.053 | 1 |
| 08357 | 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.011 | 0.053 | 1 |
| 08357 | 90-12-0 | 1-Methylnaphthalene | 0.011 | 0.053 | 1 |
| 08357 | 91-57-6 | 2-Methylnaphthalene | 0.011 | 0.053 | 1 |
| 08357 | 91-20-3 | Naphthalene | 0.032 | 0.053 | 1 |
| 08357 | 85-01-8 | Phenanthrene | 0.032 | 0.053 | 1 |
| 08357 | 129-00-0 | Pyrene | 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 | | | |
|---------|----------------|----------------|------------------|
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 15.5 |
| 7440-38-2 | Arsenic | 0.0068 | 0.0200 | 1 |
| 7440-39-3 | Barium | 0.00033 | 0.0050 | 1 |
| 7440-43-9 | Cadmium | 0.00036 | 0.0050 | 1 |

*=This limit was used in the evaluation of the final result.
**Sample Description:** WS-005(SURFACE)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

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

Collected: 05/02/2013 11:45 by AD
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

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

---

## Metals

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<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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*This limit was used in the evaluation of the final result*
Sample Description: WS-008(SURFACE)050213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 12:00 by AD  
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

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

Sample Description: WS-008(SURFACE)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

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

- **Collected:** 05/02/2013 12:00  by AD
- **Submitted:** 05/03/2013 09:30
- **Reported:** 05/09/2013 11:27

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### GC/MS Semivolatiles

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

### Metals

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*This limit was used in the evaluation of the final result.
Sample Description: WS-008(SURFACE)050213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collectd: 05/02/2013 12:00 by AD  
Submitted: 05/03/2013 09:30

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

### Laboratory Sample Analysis Record

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

Sample Description: WS-001(SURFACE)050213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 13:40 by AD  
Submitted: 05/03/2013 09:30  
Reported: 05/09/2013 11:27

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*This limit was used in the evaluation of the final result
Sample Description: WS-001(SURFACE)050213 Grab Surface Water  
Mayflower, AR 
Pipeline Incident

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<th>As Received Method Detection Limit*</th>
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The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

**Metals**

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*This limit was used in the evaluation of the final result.
Sample Description: WS-001(SURFACE)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 13:40 by AD
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

1S502 SDG#: PEH03-05

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<th>As Received Limit of Quantitation</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.

Laboratory Sample Analysis Record

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

**Sample Description:** WS-001(0.5-1.0)050213 Grab Surface Water

**Mayflower, AR**

**Pipeline Incident**

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

**Collected:** 05/02/2013 13:45 by AD

**Submitted:** 05/03/2013 09:30

**Reported:** 05/09/2013 11:27

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

### Sample Description:
**WS-001(0.5-1.0)050213 Grab Surface Water**
Mayflower, AR
Pipeline Incident

**Sample Description:** WS-001(0.5-1.0)050213 Grab Surface Water
Mayflower, AR Pipeline Incident

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

**Collected:** 05/02/2013 13:45 by AD
**Submitted:** 05/03/2013 09:30

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

**Reported:** 05/09/2013 11:27

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### GC/MS Volatiles

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

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

### Metals

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### SM 2046 6010B

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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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<td>0.0050</td>
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*This limit was used in the evaluation of the final result.
Sample Description: WS-001(0.5-1.0)050213 Grab Surface Water Mayflower, AR  
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 13:45 by AD
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

10502 SDG#: PEH03-06

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

**Sample Description:** WS-004(SURFACE)050213 Grab Surface Water  
**Location:** Mayflower, AR  
**Project Name:** Mayflower, AR Pipeline Incident

**Collection Details:**  
- **Collected:** 05/02/2013 13:55 by AD  
- **Submitted:** 05/03/2013 09:30  
- **Reported:** 05/09/2013 11:27

**Analytical Details:**  
- **Sample Name:** SW-846B  
- **CAS Numbers:** Various chemicals

### GC/MS Volatiles

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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-004(SURFACE)050213 Grab Surface Water

**Mayflower, AR**

**Pipeline Incident**

<table>
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<tr>
<th>Project Name: Mayflower, AR Pipeline Incident</th>
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<td>Collected: 05/02/2013 13:55 by AD ExxonMobil</td>
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<td>Submitted: 05/03/2013 09:30 Mobil Pipeline Company</td>
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<tr>
<td>Reported: 05/09/2013 11:27 Houston TX 77210-4416</td>
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### GC/MS Volatiles

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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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<tbody>
<tr>
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<td>103-65-1</td>
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### GC/MS Semivolatiles

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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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</table>

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis. The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

### Metals

<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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* = This limit was used in the evaluation of the final result
Sample Description: WS-004(SURFACE)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 13:55 by AD
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

Sample Description: WS-004(SURFACE)050213 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.

<table>
<thead>
<tr>
<th>CAT No.</th>
<th>Analysis Name</th>
<th>Method</th>
<th>Trial# Batch#</th>
<th>Analysis Date and Time</th>
<th>Analyst</th>
<th>Dilution Factor</th>
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<tbody>
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<td>SW-846 8260B 25mL purge</td>
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<td>00357</td>
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* = This limit was used in the evaluation of the final result
Sample Description: WS-004(0.5-1.0)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Colllected: 05/02/2013 14:00 by AD
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

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<th>CAS Number</th>
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<th>As Received Method 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)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

Collected: 05/02/2013 14:00 by AD
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

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<th>As Received Limit of Quantitation</th>
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The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Metals SM 2340 B-1997 mg/l mg/l mg/l
| Total Hardness as CaCO3 | 471-34-1 | 43.7 | 0.064 | 0.20 | 1 |

*=This limit was used in the evaluation of the final result
Sample Description: WS-004(0.5-1.0)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 14:00 by AD
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

Sample Description: WS-004(0.5-1.0)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

As Received
Limit of Quantitation

As Received
Method
Detection Limit*

As Received
Result
Analysis Name
CAS Number

Metals
SW-846 6010B
mg/l
mg/l
mg/l

07035 Arsenic
7440-38-2
0.0111 J
0.0068
0.0200
1

07046 Barium
7440-39-3
0.253
0.00033
0.0050
1

07049 Cadmium
7440-43-9
0.00058 J
0.00036
0.0050
1

01750 Calcium
7440-70-2
7.99
0.0640
0.200
1

07051 Chromium
7440-47-3
0.0340
0.011
0.0150
1

01757 Magnesium
7439-95-4
5.76
0.0606
0.100
1

07061 Nickel
7440-02-0
0.0276
0.011
0.0100
1

07036 Selenium
7782-49-2
N.D.
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0.0200
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07066 Silver
7440-22-4
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07071 Vanadium
7440-62-2
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SW-846 7470A
mg/l
mg/l
mg/l

00259 Mercury
7439-97-6
0.00011 J
0.00070
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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*=This limit was used in the evaluation of the final result
### Analysis Report

**Sample Description:** WS-007(SURFACE)050213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

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

**Collected:** 05/02/2013 14:20  
**Submitted:** 05/03/2013 09:30  
**Reported:** 05/09/2013 11:27  
**by AD**  
**ExxonMobil**  
Mobil Pipeline Company  
PO Box 4416  
Houston TX 77210-4416

**As Received**

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*=This limit was used in the evaluation of the final result.
### Sample Description:
WS-007(SURFACE)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

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

**Collected:** 05/02/2013 14:20 by AD

**Submitted:** 05/03/2013 09:30

**Reported:** 05/09/2013 11:27

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<th>CAS Number</th>
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<th>As Received Method Detection Limit*</th>
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The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

### Metals

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06256  Total Hardness as CaCO3  471-34-1  39.5  0.064  0.20  1

* *= This limit was used in the evaluation of the final result.
**Sample Description:** WS-007(SURFACE)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

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

**Collected:** 05/02/2013 14:20 by AD
**Submitted:** 05/03/2013 09:30
**Reported:** 05/09/2013 11:27

**Sample Description:** WS-007(SURFACE)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

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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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Mayflower, AR  
Pipeline Incident

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### Sample Description:
WS-007(0.5-1.0)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

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

**Collected:** 05/02/2013 14:25 by AD

**Submitted:** 05/03/2013 09:30

**Reported:** 05/09/2013 11:27

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### Analysis Report

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<th>CAS Number</th>
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<th>As Received Limit of Quantitation</th>
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#### GC/MS Semivolatiles

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

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

### Metals

<table>
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<tr>
<th>Analysis Name</th>
<th>CAS Number</th>
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<th>As Received Method 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-007(0.5-1.0)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 14:25 by AD
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

Sample Description: WS-007(0.5-1.0)050213 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.

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<th>Analysis Name</th>
<th>Method</th>
<th>Trial#</th>
<th>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-006(SURFACE)050213 Grab Surface Water 
Mayflower, AR 
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 15:00 by AD
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

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*This limit was used in the evaluation of the final result
**Sample Description:** WS-006(SURFACE)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

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

**Collected:** 05/02/2013 15:00 by AD

**Submitted:** 05/03/2013 09:30 ExxonMobil

**Reported:** 05/09/2013 11:27 Mobil Pipeline Company

---

**GC/MS Volatiles**

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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**

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<th>As Received Limit of Quantitation</th>
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*The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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**Metals**

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

Sample Description: WS-006(SURFACE)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 15:00 by AD
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

6S502  SDG#: PEH03-11

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<th>CAT No.</th>
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<th>As Received Method</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>Trial# Batch#</th>
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*This limit was used in the evaluation of the final result
**Sample Description:** WS-006(0.5-1.0)050213 Grab Surface Water

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

**Collected:** 05/02/2013 15:05 by AD

**Submitted:** 05/03/2013 09:30

**Reported:** 05/09/2013 11:27

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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-006(0.5-1.0)050213 Grab Surface Water

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 15:05 by AD
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

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<th>As Received Method Detection Limit*</th>
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The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Metals SM 2340 B-1997 mg/l mg/l mg/l
| 06256 | Total Hardness as CaCO3 | 471-34-1 | 26.0 | 0.064 | 0.20 | 1 |

*=This limit was used in the evaluation of the final result
Sample Description: WS-006(0.5-1.0)050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 15:05 by AD
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

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.

Lab Sample Analysis Record

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

**Sample Description:** WS-DUP-19-050213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

**Sample Collection:**  
Collected: 05/02/2013 by AD  
Submitted: 05/03/2013 09:30  
Reported: 05/09/2013 11:27

**Analysis Report**

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*=This limit was used in the evaluation of the final result
Sample Description: WS-DUP-19-050213 Grab Surface Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 by AD

Submitted: 05/03/2013 09:30

Reported: 05/09/2013 11:27

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### Analysis Report

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<th>CAS Number</th>
<th>As Received Result</th>
<th>As Received Method Detection Limit</th>
<th>As Received Limit of Quantitation</th>
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The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

### Metals

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*=This limit was used in the evaluation of the final result.
Sample Description: WS-DUP-19-050213 Grab Surface Water  
Mayflower, AR  
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013 by AD  
Submitted: 05/03/2013 09:30  
Reported: 05/09/2013 11:27

D1902  SDG#: PEH03-13FD

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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-TB31-050213 Water
Mayflower, AR
Pipeline Incident

Collected: 05/02/2013
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

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*This limit was used in the evaluation of the final result
Sample Description: WS-TB31-050213 Water
Mayflower, AR
Pipeline Incident

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/02/2013
Submitted: 05/03/2013 09:30
Reported: 05/09/2013 11:27

T3102  SDG#: PEH03-14TB*

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<th>CAS Number</th>
<th>As Received Result</th>
<th>As Received Method Detection Limit*</th>
<th>As Received Limit of Quantitation</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.

Laboratory Sample Analysis Record

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<th>Analysis Name</th>
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<th>Batch#</th>
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*=This limit was used in the evaluation of the final result
**Quality Control Summary**

Client Name: ExxonMobil                      Group Number: 1387367
Reported: 05/09/13 at 11:27 AM

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

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

### Laboratory Compliance Quality Control

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<th>Blank LOQ</th>
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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: 1387367
 Reported: 05/09/13 at 11:27 AM

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

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<th>Units</th>
<th>%REC</th>
<th>%REC Limits</th>
<th>RPD</th>
<th>RPD Max</th>
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Batch number: 13123WAH026  Sample number(s): 7043755-7043767

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<th>%REC</th>
<th>%REC Limits</th>
<th>RPD</th>
<th>RPD Max</th>
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Batch number: 131231848001  Sample number(s): 7043755-7043767

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<th>%REC Limits</th>
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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: 1387367
Reported: 05/09/13 at 11:27 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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<th>RPD Max</th>
<th>Conc BKG</th>
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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: 1387367
Reported: 05/09/13 at 11:27 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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<th>BKG Conc</th>
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Batch number: 131231848001 Sample number(s): 7043755-7043767 UNSPK: 7043761 BKG: 7043761

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Batch number: 131235713001 Sample number(s): 7043755-7043767 UNSPK: P043907 BKG: P043907

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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: NHDES VOCs 25ml purge

* - 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: 05/09/13 at 11:27 AM

Group Number: 1387367

Surrogate Quality Control

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

Analysis Name: PAHs in waters by SIM
Batch number: 13123WAH026

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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.
### Client Information
- **Facility/SSID**: Mayflower Pipeline Linden
- **Site Address**: Mayflower, AR
- **ExxonMobil PM**: Scott Burris
- **Consultant/Office**: ARCADIS
- **Consultant PM**: Steve Barrick
- **Sample**: Aaron Daykin / Angie Pandrino (734) 607-1707

### Sample Identification

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<th>Sample Identification</th>
<th>Collected</th>
<th>Grab</th>
<th>Composite</th>
<th>Soil</th>
<th>Water</th>
<th>Oil</th>
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<th>Total # of Containers</th>
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### Turnaround Time Requested (TAT) (please circle)
- Standard: 5 day
- 24 hour
- 48 hour
- 72 hour
- 4 day

### Data Package
- Type I - Full
- Type VI (Raw Data)
- Locus EIM (default)
- Other

### EDD (circle if required)
- Other

### Temperature Upon Receipt
- 10.3 °C

### Remarks
- Data Analysis Quotes:
  - Lynch Mott, ARCADIS
  - Other

### Analysis Requested

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The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.
**Environmental Sample Administration**  
**Receipt Documentation Log**

- **Client/Project:** Mayflower  
- **Date of Receipt:** 5/3/13  
- **Time of Receipt:** 0930  
- **Source Code:** 50  
- **Shipping Container Sealed:** YES  
- **Custody Seal Present:** YES  

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

- **Package:** Chilled

---

### Temperature of Shipping Containers

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

**Paperwork Discrepancy/Unpacking Problems:**

---

**Unpacker Signature/Emp#:** Pat Ga  3472  
**Date/Time:** 5/3/13 1005

Issued by Dept. 6042 Management  
2174.06
Explanation of Symbols and Abbreviations

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

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

**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 ≥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
- **+**: 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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