

## ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

August 07, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 08/01/2013

Group Number: 1408374

SDG: PEJ85

PO Number: ARCADIS

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
WS-014(1.5-2.0)073113 Filt Grab Surface Water	7146745
WS-014(5.5-6.0)073113 Filt Grab Surface Water	7146746
WS-012(1.5-2.0)073113 Filt Grab Surface Water	7146747
WS-012(5.0-5.5)073113 Filt Grab Surface Water	7146748
WS-010(1.5-2.0)073113 Filt Grab Surface Water	7146749
WS-010(3.5-4.0)073113 Filt Grab Surface Water	7146750
WS-005(Surface)073113 Filt Grab Surface Water	7146751
WS-011(1.5-2.0)073113 Filt Grab Surface Water	7146752
WS-011(5.0-5.5)073113 Filt Grab Surface Water	7146753
WS-003(Surface)073113 Filt Grab Surface Water	7146754
WS-018(Surface)073113 Filt Grab Surface Water	7146755
WS-002(Surface)073113 Filt Grab Surface Water	7146756
WS-007(0.5-1.0)073113 Filt Grab Surface Water	7146757
WS-006(0.5-1.0)073113 Filt Grab Surface Water	7146758
WS-001(0.5-1.0)073113 Filt Grab Surface Water	7146759
WS-EB-16-073113 Filt Grab Water	7146760
DUP-WS-64-073113 Filt Grab Surface Water	7146761

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

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

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

Respectfully Submitted,



Katherine A. Klinefelter  
Principal Specialist

(717) 556-7256

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Project Name: Mayflower, AR Pipeline Incident  
LLI Group #: 1408374

**General Comments:**

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

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

Project specific QC samples are not included in this data set

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

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

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

**Analysis Specific Comments:**

No additional comments are necessary.

Sample Description: WS-014(1.5-2.0)073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146745  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 08:40 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/01/2013 09:50

PO Box 4416

Reported: 08/07/2013 06:11

Houston TX 77210-4416

3114F SDG#: PEJ85-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0153	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 03:56	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 03:56	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 03:56	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 03:56	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 03:56	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 03:56	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 03:56	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 03:56	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 03:56	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 08:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

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Sample Description: WS-014(5.5-6.0)073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146746  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 08:50 by HVA ExxonMobil  
Mobil Pipeline Company  
Submitted: 08/01/2013 09:50 PO Box 4416  
Reported: 08/07/2013 06:11 Houston TX 77210-4416

31F14 SDG#: PEJ85-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0157	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 03:59	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 03:59	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 03:59	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 03:59	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 03:59	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 03:59	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 03:59	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 03:59	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 03:59	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 08:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

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Sample Description: WS-012(1.5-2.0)073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146747  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 09:10 by HVA ExxonMobil  
Mobil Pipeline Company  
Submitted: 08/01/2013 09:50 PO Box 4416  
Reported: 08/07/2013 06:11 Houston TX 77210-4416

3112F SDG#: PEJ85-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0157	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 04:11	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 04:11	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 04:11	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 04:11	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 04:11	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 04:11	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 04:11	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 04:11	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 04:11	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 08:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

Sample Description: WS-012(5.0-5.5)073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146748  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 09:20 by HVA ExxonMobil  
Submitted: 08/01/2013 09:50 Mobil Pipeline Company  
Reported: 08/07/2013 06:11 PO Box 4416  
Houston TX 77210-4416

31F12 SDG#: PEJ85-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0171	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 04:15	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 04:15	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 04:15	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 04:15	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 04:15	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 04:15	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 04:15	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 04:15	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 04:15	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 08:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

Sample Description: WS-010(1.5-2.0)073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146749  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 09:50 by HVA ExxonMobil  
Mobil Pipeline Company  
Submitted: 08/01/2013 09:50 PO Box 4416  
Reported: 08/07/2013 06:11 Houston TX 77210-4416

3110F SDG#: PEJ85-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0169	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 04:18	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 04:18	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 04:18	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 04:18	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 04:18	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 04:18	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 04:18	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 04:18	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 04:18	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 08:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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



Sample Description: WS-010(3.5-4.0)073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146750  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 10:00 by HVA ExxonMobil  
Mobil Pipeline Company  
Submitted: 08/01/2013 09:50 PO Box 4416  
Reported: 08/07/2013 06:11 Houston TX 77210-4416

31F10 SDG#: PEJ85-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0172	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 04:22	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 04:22	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 04:22	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 04:22	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 04:22	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 04:22	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 04:22	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 04:22	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 04:22	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 08:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

Sample Description: WS-005 (Surface) 073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146751  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 10:40 by HVA ExxonMobil  
Mobil Pipeline Company  
Submitted: 08/01/2013 09:50 PO Box 4416  
Reported: 08/07/2013 06:11 Houston TX 77210-4416

3105F SDG#: PEJ85-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0176	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 03:33	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 03:33	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 03:33	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 03:33	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 03:33	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 03:33	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 03:33	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 03:33	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 03:33	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 08:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

Sample Description: WS-011(1.5-2.0)073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146752  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 11:20 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/01/2013 09:50

PO Box 4416

Reported: 08/07/2013 06:11

Houston TX 77210-4416

3111F SDG#: PEJ85-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0128	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 04:26	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 04:26	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 04:26	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 04:26	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 04:26	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 04:26	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 04:26	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 04:26	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 04:26	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 08:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

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Sample Description: WS-011(5.0-5.5)073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146753  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 11:30 by HVA ExxonMobil  
Mobil Pipeline Company  
Submitted: 08/01/2013 09:50 PO Box 4416  
Reported: 08/07/2013 06:11 Houston TX 77210-4416

31F11 SDG#: PEJ85-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0128	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 04:30	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 04:30	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 04:30	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 04:30	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 04:30	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 04:30	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 04:30	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 04:30	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 04:30	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 08:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

Sample Description: WS-003 (Surface) 073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146754  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 11:50 by HVA ExxonMobil  
Mobil Pipeline Company  
Submitted: 08/01/2013 09:50 PO Box 4416  
Reported: 08/07/2013 06:11 Houston TX 77210-4416

3103F SDG#: PEJ85-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0158	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 04:34	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 04:34	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 04:34	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 04:34	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 04:34	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 04:34	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 04:34	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 04:34	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 04:34	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 08:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

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Sample Description: WS-018 (Surface) 073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146755  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 12:00 by HVA ExxonMobil  
Mobil Pipeline Company  
Submitted: 08/01/2013 09:50 PO Box 4416  
Reported: 08/07/2013 06:11 Houston TX 77210-4416

3118F SDG#: PEJ85-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0165	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 04:38	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 04:38	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 04:38	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 04:38	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 04:38	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 04:38	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 04:38	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 04:38	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 04:38	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 08:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

Sample Description: WS-002 (Surface) 073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146756  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 12:20 by HVA ExxonMobil  
Mobil Pipeline Company  
Submitted: 08/01/2013 09:50 PO Box 4416  
Reported: 08/07/2013 06:11 Houston TX 77210-4416

3102F SDG#: PEJ85-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0144	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 04:41	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 04:41	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 04:41	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 04:41	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 04:41	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 04:41	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 04:41	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 04:41	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 04:41	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 08:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

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Sample Description: WS-007(0.5-1.0)073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146757  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 12:40 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/01/2013 09:50

PO Box 4416

Reported: 08/07/2013 06:11

Houston TX 77210-4416

3107F SDG#: PEJ85-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0187	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 04:45	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 04:45	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 04:45	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 04:45	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 04:45	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 04:45	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 04:45	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 04:45	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 04:45	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 08:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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



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

Sample Description: WS-006(0.5-1.0)073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146758  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 10:10 by HVA

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

Submitted: 08/01/2013 09:50

Reported: 08/07/2013 06:11

3106F SDG#: PEJ85-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0147	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 04:57	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 04:57	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 04:57	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 04:57	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 04:57	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 04:57	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 04:57	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 04:57	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 04:57	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 08:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

Sample Description: WS-001(0.5-1.0)073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146759  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 13:00 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/01/2013 09:50

PO Box 4416

Reported: 08/07/2013 06:11

Houston TX 77210-4416

3101F SDG#: PEJ85-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0199	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 05:00	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 05:00	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 05:00	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 05:00	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 05:00	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 05:00	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 05:00	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 05:00	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 05:00	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 09:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

Sample Description: **WS-EB-16-073113 Filt Grab Water**  
**Mayflower, AR**  
**Pipeline Incident**

LL Sample # **WW 7146760**  
 LL Group # **1408374**  
 Account # **14739**

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

Collected: 07/31/2013 13:30 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/01/2013 09:50

PO Box 4416

Reported: 08/07/2013 06:11

Houston TX 77210-4416

3116F SDG#: PEJ85-16EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
	<b>SW-846 6010B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0071	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	<b>SW-846 7470A</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 05:04	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 05:04	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 05:04	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 05:04	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 05:04	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 05:04	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 05:04	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 05:04	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 05:04	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 09:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

Sample Description: DUP-WS-64-073113 Filt Grab Surface Water  
Mayflower, AR  
Pipeline Incident

LL Sample # WW 7146761  
LL Group # 1408374  
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/31/2013 by HVA

ExxonMobil

Mobil Pipeline Company

Submitted: 08/01/2013 09:50

PO Box 4416

Reported: 08/07/2013 06:11

Houston TX 77210-4416

3164F SDG#: PEJ85-17FD\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>Metals Dissolved</b>						
		<b>SW-846 6010B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0155	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		<b>SW-846 7470A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

### General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132141848001	08/07/2013 05:08	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132141848001	08/07/2013 05:08	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132141848001	08/07/2013 05:08	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132141848001	08/07/2013 05:08	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132141848001	08/07/2013 05:08	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132141848001	08/07/2013 05:08	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132141848001	08/07/2013 05:08	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132141848001	08/07/2013 05:08	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132141848001	08/07/2013 05:08	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132135713004	08/04/2013 09:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132141848001	08/04/2013 10:11	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132135713004	08/03/2013 09:25	Damary Valentin	1

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

## Quality Control Summary

Client Name: ExxonMobil  
Reported: 08/07/13 at 06:11 AM

Group Number: 1408374

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

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

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 132135713004	Sample number(s): 7146745-7146761								
Mercury	N.D.	0.00006	0.00020	mg/l	99		80-120		
		0							
Batch number: 132141848001	Sample number(s): 7146745-7146761								
Arsenic	N.D.	0.0068	0.0200	mg/l	99		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	102		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	102		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	99		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	105		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	105		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	98		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	97		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	98		90-110		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 132135713004	Sample number(s): 7146745-7146761 UNSPK: 7146745 BKG: 7146745								
Mercury	102	100	80-120	2	20	N.D.	N.D.	0 (1)	20
Batch number: 132141848001	Sample number(s): 7146745-7146761 UNSPK: 7146751 BKG: 7146751								
Arsenic	102	102	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	102	101	78-118	1	20	0.0176	0.0174	1 (1)	20
Cadmium	101	101	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	100	100	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	104	103	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	106	105	86-115	1	20	N.D.	N.D.	0 (1)	20
Selenium	100	98	75-125	2	20	N.D.	N.D.	0 (1)	20
Silver	97	97	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	99	97	90-111	1	20	N.D.	N.D.	0 (1)	20

\*- Outside of specification

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

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

# ExxonMobil Analysis Request/Chain of Custody



**Lancaster Laboratories**

Acct. # 14739 Group # 1408374 Sample # 7146745-61  
For Lancaster Laboratories use only  
Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information				4 Matrix				5 Analyses Requested								6 Remarks			
Facility #/SID <u>May-flower Pipeline Incident</u>				Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/>	Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/>	Surface <input checked="" type="checkbox"/>	Preservation Code								SCR#: _____				
Site Address <u>May flower, AK</u>							H <input type="checkbox"/> N <input type="checkbox"/> H <input type="checkbox"/>								<b>Preservation Codes</b> H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other				
ExxonMobil PM <u>Scott Bushroe</u>							Total # of Containers								* Lab to filter and preserve diss metals upon receipt.				
Consultant/Office <u>Arcadis</u>							VOCs B260B PAHs B270 SIM ACRA Metals <sup>includes V, Ni, Cu, Pb</sup> Diss Metal ITEM Oil Grease												
Consultant PM <u>Steve Barrick</u>							9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9												
Consultant Phone # <u>919 202 6799</u>				Grab <input type="checkbox"/> Composite <input type="checkbox"/>															
Sampler <u>H. Van Aller / J. Waldron</u>																			
2 Sample Identification		Collected		3	Soil	Water	Oil	Total # of Containers											
Date	Time	Grab	Composite																
WS-014(1.5-2.0)073113	7/31/13	840	X		X			9	X	X	X	X	X						
WS-014(5.5-6.0)073113		850	X		X			9	X	X	X	X	X						
WS-012(1.5-2.0)073113		910	X		X			9	X	X	X	X	X						
WS-012(5.0-5.5)073113		920	X		X			9	X	X	X	X	X						
WS-010(1.5-2.0)073113		950	X		X			9	X	X	X	X	X						
WS-010(3.5-4.0)073113		1000	X		X			9	X	X	X	X	X						
WS-005(surface)073113		1040	X		X			9	X	X	X	X	X						
WS-011(1.5-2.0)073113		1120	X		X			9	X	X	X	X	X						
WS-011(5.0-5.5)073113		1130	X		X			9	X	X	X	X	X						
WS-003(surface)073113		1150	X		X			9	X	X	X	X	X						
WS-018(surface)073113	✓	1200	X		X			9	X	X	X	X	X						
WS-002(surface)073113		1220	X		X			9	X	X	X	X	X						
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>H. Van Aller</u>				Date <u>7/31/13</u>		Time <u>1500</u>		Received by _____		Date _____		Time _____			
Standard <u>5 day</u> 4 day				Relinquished by _____				Date _____		Time _____		Received by _____		Date _____		Time _____			
72 hour      48 hour      24 hour				Relinquished by _____				Date _____		Time _____		Received by _____		Date _____		Time _____			
8 Data Package (circle if required)				Relinquished by Commercial Carrier				Date _____		Time _____		Received by <u>C. Fisher</u>		Date <u>8/1/13</u>		Time <u>0950</u>			
Type I - Full Type VI (Raw Data) NJ Reduced Other _____				EDD (circle if required) Locus EIM (default) Other _____				UPS <input checked="" type="checkbox"/> FedEx _____      Other _____		Temperature Upon Receipt <u>0.5-4.5°C</u>		Custody Seals Intact? <u>(Yes)</u> No							

# ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 14739 Group # 1408374 Sample # 7146745-61  
For Lancaster Laboratories use only  
Instructions on reverse side correspond with circled numbers.

2 of 2

<b>1 Client Information</b>				<b>4 Matrix</b>			<b>5 Analyses Requested</b>							SCR#: _____							
Facility #/SID <u>Mayflower Pipeline Incident</u>				Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/>	Ground <input type="checkbox"/> Surface <input checked="" type="checkbox"/>	Preservation Code							<b>6 Preservation Codes</b> H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other								
Site Address <u>Mayflower, AR</u>						Total # of Containers	H														
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE					VOCs 8260 B PAHs 8270 SIM DCRA Metals V.N., Cr, Pb Diss Metals HEM Oil Grease														
Consultant/Office <u>Arcadis</u>							<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"><b>6 Remarks</b></td> </tr> <tr> <td style="padding: 5px;">* Lab to filter and preserve dissmetals upon receipt.</td> </tr> </table>								<b>6 Remarks</b>		* Lab to filter and preserve dissmetals upon receipt.				
<b>6 Remarks</b>																					
* Lab to filter and preserve dissmetals upon receipt.																					
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919 202 6749</u>																			
Sampler <u>H. Van Aller / J. Waldron</u>																					
<b>2 Collected</b>																					
<b>Sample Identification</b>		Date	Time	Grab	Composite	Soil	Water	Oil													
<u>WS-007(0.5-1.0)073113</u>		<u>7/31/13</u>	<u>1240</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<u>WS-006(0.5-1.0)073113</u>		<u>7/31/13</u>	<u>1010</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<u>WS-001(0.5-1.0)073113</u>		<u>7/31/13</u>	<u>1300</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<u>WS-EB-16-073113</u>		<u>7/31/13</u>	<u>1330</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<u>WS-TB-110-073113</u>		<u>7/31/13</u>	---	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>											
<u>DUP-WS-64-073113</u>		<u>7/31/13</u>	---	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<b>7 Turnaround Time Requested (TAT) (please circle)</b>				Relinquished by <u>M. Van Aller</u>			Date <u>7/31/13</u>	Time <u>1500</u>	Received by _____			Date	Time <b>9</b>								
Standard <input checked="" type="radio"/> 5 day      4 day				Relinquished by _____			Date	Time	Received by _____			Date	Time								
72 hour      48 hour      24 hour				Relinquished by _____			Date	Time	Received by _____			Date	Time								
<b>8 Data Package (circle if required)</b>				Relinquished by Commercial Carrier			Received by <u>C. E. ...</u>			Date <u>8/1/13</u>	Time <u>0950</u>										
Type I - Full				UPS <input checked="" type="checkbox"/> FedEx _____      Other _____			Temperature Upon Receipt <u>0.5-4.5°C</u>			Custody Seals Intact? <input checked="" type="radio"/> Yes      No											
Type VI (Raw Data)				EDD (circle if required)																	
NJ Reduced				Locus EIM (default)																	
Other _____				Other _____																	

Environmental Sample Administration  
Receipt Documentation Log

1408374

Client/Project: Mayflower  
Date of Receipt: 8/1/13  
Time of Receipt: 0950  
Source Code: 60-1

Shipping Container Sealed: YES NO  
Custody Seal Present \*: YES NO  
\* Custody seal was intact unless otherwise noted in the discrepancy section  
Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT146	1.4	TB	WI	Y	B	
2	↓	4.5	↓	↓	↓	↓	
3	↓	1.0	↓	↓	↓	↓	
4	↓	0.6	↓	↓	↓	↓	
5	↓	1.6	↓	↓	↓	↓	
6	↓	0.5	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Unpacker Signature/Emp#: Cash 3647 Date/Time: 8/1/13 1045



# Explanation of Symbols and Abbreviations

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

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter

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

> greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

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

**Inorganic Qualifiers**

- B** Value is  $<$ CRDL, but  $\geq$ IDL
- E** Estimated due to interference
- M** Duplicate injection precision not met
- N** Spike sample not within control limits
- S** Method of standard additions (MSA) used for calculation
- U** Compound was not detected
- W** Post digestion spike out of control limits
- \*** Duplicate analysis not within control limits
- +** Correlation coefficient for MSA  $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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