

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

July 29, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 07/23/2013

Group Number: 1405871

SDG: PEJ33

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample DescriptionLancaster Labs (LL) #

WS-014(1.5-2.0)072213 Filt Grab Surface Water	7135245
WS-012(1.5-2.0)072213 Filt Grab Surface Water	7135246
WS-010(1.5-2.0)072213 Filt Grab Surface Water	7135247
WS-005(Surface)072213 Filt Grab Surface Water	7135248
WS-011(1.5-2.0)072213 Filt Grab Surface Water	7135249
WS-003(Surface)072213 Filt Grab Surface Water	7135250
WS-018(Surface)072213 Filt Grab Surface Water	7135251
WS-002(Surface)072213 Filt Grab Surface Water	7135252
WS-007(0.5-1.0)072213 Filt Grab Surface Water	7135253
WS-006(0.5-1.0)072213 Filt Grab Surface Water	7135254
WS-006(0.5-1.0)072213MS Filt Grab Surface Water	7135255
WS-006(0.5-1.0)072213MSD Filt Grab Surface Water	7135256
WS-006(0.5-1.0)072213DUP Filt Grab Surface Water	7135257
WS-001(0.5-1.0)072213 Filt Grab Surface Water	7135258
WS-EB-8-072213 Filt Grab Water	7135259

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

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ARCADIS

ARCADIS

ExxonMobil

ExxonMobil

ExxonMobil

Attn: Rhiannon Parmalee

Attn: Jamie Pritchard

Attn: Michael L Sixsmith

Attn: Julie Foster

Attn: Carl Wideman

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1405871

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

Analysis Specific Comments:

No additional comments are necessary.

Sample Description: WS-014(1.5-2.0)072213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135245
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 08:15 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/23/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:59

Houston TX 77210-4416

22F14 SDG#: PEJ33-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0147	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
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132041848004	07/25/2013 09:56	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 09:56	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 09:56	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 09:56	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 09:56	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 09:56	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 09:56	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 09:56	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 09:56	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 06:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)072213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135246
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 08:30 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/23/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:59

Houston TX 77210-4416

22F12 SDG#: PEJ33-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0139	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132041848004	07/25/2013 10:00	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 10:00	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 10:00	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 10:00	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 10:00	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 10:00	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 10:00	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 10:00	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 10:00	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 06:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)072213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135247
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 08:50 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/23/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:59

Houston TX 77210-4416

22F10 SDG#: PEJ33-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0149	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132041848004	07/25/2013 10:04	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 10:04	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 10:04	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 10:04	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 10:04	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 10:04	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 10:04	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 10:04	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 10:04	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 07:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)072213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135248
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 09:15 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/23/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:59

Houston TX 77210-4416

22F05 SDG#: PEJ33-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0250	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
SW-846 6010B						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
SW-846 7470A						
			mg/l	mg/l	mg/l	

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	132041848004	07/25/2013 10:08	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 10:08	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 10:08	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 10:08	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 10:08	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 10:08	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 10:08	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 10:08	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 10:08	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 07:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)072213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135249
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 11:10 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/23/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:59

Houston TX 77210-4416

22F11 SDG#: PEJ33-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0159	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132041848004	07/25/2013 10:11	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 10:11	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 10:11	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 10:11	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 10:11	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 10:11	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 10:11	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 10:11	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 10:11	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 07:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-003(Surface)072213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135250
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 11:25 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/23/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:59

Houston TX 77210-4416

22F03 SDG#: PEJ33-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	SW-846 6010B 7440-38-2	mg/l N.D.	mg/l 0.0068	mg/l 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
SW-846 7470A						
00259	Mercury	7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 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	132041848004	07/25/2013 10:15	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 10:15	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 10:15	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 10:15	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 10:15	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 10:15	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 10:15	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 10:15	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 10:15	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 07:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-018(Surface)072213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135251
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 11:35 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/23/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:59

Houston TX 77210-4416

22F18 SDG#: PEJ33-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0179	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132041848004	07/25/2013 10:19	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 10:19	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 10:19	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 10:19	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 10:19	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 10:19	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 10:19	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 10:19	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 10:19	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 07:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)072213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135252
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 11:52 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/23/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:59

Houston TX 77210-4416

22F02 SDG#: PEJ33-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0164	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132041848004	07/25/2013 10:30	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 10:30	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 10:30	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 10:30	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 10:30	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 10:30	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 10:30	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 10:30	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 10:30	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 07:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)072213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135253
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 12:05 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/23/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:59

Houston TX 77210-4416

22F07 SDG#: PEJ33-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0181	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132041848004	07/25/2013 10:34	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 10:34	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 10:34	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 10:34	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 10:34	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 10:34	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 10:34	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 10:34	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 10:34	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 07:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)072213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135254
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 12:20 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/23/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:59

Houston TX 77210-4416

22F06 SDG#: PEJ33-10BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	SW-846 6010B 7440-38-2	mg/l N.D.	mg/l 0.0068	mg/l 0.0200	1
07046	Barium	7440-39-3	0.0210	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
SW-846 7470A						
00259	Mercury	7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 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	132041848004	07/25/2013 09:07	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 09:07	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 09:07	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 09:07	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 09:07	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 09:07	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 09:07	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 09:07	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 09:07	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 07:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)072213MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135255
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 12:20 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/23/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:59

Houston TX 77210-4416

22F06 SDG#: PEJ33-10MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	SW-846 6010B 7440-38-2	mg/l 0.147	mg/l 0.0068	mg/l 0.0200	1
07046	Barium	7440-39-3	2.00	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0490	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.199	0.0016	0.0150	1
07055	Lead	7439-92-1	0.150	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.506	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.143	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0478	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.507	0.0020	0.0050	1
SW-846 7470A						
00259	Mercury	7439-97-6	mg/l 0.0011	mg/l 0.000060	mg/l 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	132041848004	07/25/2013 09:18	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 09:18	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 09:18	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 09:18	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 09:18	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 09:18	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 09:18	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 09:18	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 09:18	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 07:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)072213MSD Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135256
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 12:20 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/23/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:59

Houston TX 77210-4416

22F06 SDG#: PEJ33-10MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	7440-38-2	mg/l	mg/l	mg/l	
07046	Barium	7440-39-3	0.143	0.0068	0.0200	1
07049	Cadmium	7440-43-9	1.98	0.00033	0.0050	1
07051	Chromium	7440-47-3	0.0480	0.00076	0.0050	1
07055	Lead	7440-47-3	0.197	0.0016	0.0150	1
07061	Nickel	7439-92-1	0.149	0.0047	0.0150	1
07036	Selenium	7440-02-0	0.498	0.0015	0.0100	1
07066	Silver	7782-49-2	0.142	0.0084	0.0200	1
07071	Vanadium	7440-22-4	0.0476	0.0021	0.0050	1
		7440-62-2	0.499	0.0020	0.0050	1
SW-846 7470A						
00259	Mercury	7439-97-6	mg/l	mg/l	mg/l	
			0.0011	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	132041848004	07/25/2013 09:22	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 09:22	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 09:22	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 09:22	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 09:22	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 09:22	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 09:22	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 09:22	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 09:22	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 07:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)072213DUP Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135257
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 12:20 by LD

ExxonMobil

Submitted: 07/23/2013 09:20

Mobil Pipeline Company

Reported: 07/29/2013 15:59

PO Box 4416

Houston TX 77210-4416

22F06 SDG#: PEJ33-10DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0207	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132041848004	07/25/2013 09:14	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 09:14	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 09:14	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 09:14	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 09:14	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 09:14	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 09:14	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 09:14	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 09:14	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 07:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)072213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135258
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 12:40 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/23/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:59

Houston TX 77210-4416

22F01 SDG#: PEJ33-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0180	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132041848004	07/25/2013 10:38	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 10:38	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 10:38	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 10:38	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 10:38	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 10:38	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 10:38	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 10:38	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 10:38	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 07:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Sample Description: WS-EB-8-072213 Filt Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7135259
LL Group # 1405871
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/22/2013 13:05 by LD

ExxonMobil

Mobil Pipeline Company

Submitted: 07/23/2013 09:20

PO Box 4416

Reported: 07/29/2013 15:59

Houston TX 77210-4416

22FE8 SDG#: PEJ33-12EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	SW-846 6010B 7440-38-2	mg/l N.D.	mg/l 0.0068	mg/l 0.0200	1
07046	Barium	7440-39-3	0.0035 J	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
SW-846 7470A						
00259	Mercury	7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 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	132041848004	07/25/2013 10:42	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	132041848004	07/25/2013 10:42	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	132041848004	07/25/2013 10:42	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	132041848004	07/25/2013 10:42	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	132041848004	07/25/2013 10:42	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	132041848004	07/25/2013 10:42	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	132041848004	07/25/2013 10:42	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	132041848004	07/25/2013 10:42	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	132041848004	07/25/2013 10:42	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	132045713004	07/25/2013 07:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132041848004	07/24/2013 15:37	Kevin C Piaskowski	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132045713004	07/24/2013 12:30	Nelli S Markaryan	1

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

Quality Control SummaryClient Name: ExxonMobil
Reported: 07/29/13 at 03:59 PM

Group Number: 1405871

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: 132041848004	Sample number(s): 7135245-7135259								
Arsenic	N.D.	0.0068	0.0200	mg/l	96		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	99		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	98		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	100		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	102		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	102		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	97		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	98		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	102		90-110		
Batch number: 132045713004	Sample number(s): 7135245-7135259								
Mercury	N.D.	0.00006	0.00020	mg/l	103		80-120		
		0							

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: 132041848004	Sample number(s): 7135245-7135259 UNSPK: 7135254 BKG: 7135254								
Arsenic	98	95	81-123	3	20	N.D.	N.D.	0 (1)	20
Barium	99	98	78-118	1	20	0.0210	0.0207	2 (1)	20
Cadmium	98	96	83-116	2	20	N.D.	N.D.	0 (1)	20
Chromium	100	98	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	100	99	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	101	100	86-115	2	20	N.D.	N.D.	0 (1)	20
Selenium	95	95	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	96	95	75-125	0	20	N.D.	N.D.	0 (1)	20
Vanadium	101	100	90-111	2	20	N.D.	N.D.	0 (1)	20
Batch number: 132045713004	Sample number(s): 7135245-7135259 UNSPK: 7135254 BKG: 7135254								
Mercury	106	106	80-120	0	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.

Acct. # 14739

For Eurofins Lancaster Laboratories use only
Group # 1405871 Sample # 7135245-59
Instructions on reverse side correspond with circled numbers.

1 of 2

Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

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

Issued by Dept. 40 Management

7053 0413

For Eurofins Lancaster Laboratories use only
Acct. # 14739 Group # 1405871 Sample # 7135245-59
Instructions on reverse side correspond with circled numbers.

Instructions on reverse side correspond with circled numbers

2 of 2

[illegible]

Issued by Dept. 40 Management

7053 0413

Environmental Sample Administration
Receipt Documentation Log

1405871

Client/Project: Exxon mobilShipping Container Sealed: YES NODate of Receipt: 7.23.13Custody Seal Present *: YES NOTime of Receipt: 920* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 50-1Package: 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	DH46	0.7	TB	WI	Y	B	
2	↓	2.6	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Branchy Barclay 2299 Date/Time: 7.23.13 946

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , 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		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	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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