

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 19, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 07/17/2013

Group Number: 1404597

SDG: PEJ16

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample DescriptionLancaster Labs (LL) #

WS-003(Surface)071613 Filt Grab Surface Water
WS-018(1.5-2.0)071613 Filt Grab Surface Water
WS-011(1.5-2.0)071613 Filt Grab Surface Water
WS-014(1.5-2.0)071613 Filt Grab Surface Water
WS-012(1.5-2.0)071613 Filt Grab Surface Water
WS-010(1.5-2.0)071613 Filt Grab Surface Water
WS-005(Surface)071613 Filt Grab Surface Water
WS-002(Surface)071613 Filt Grab Surface Water
WS-001(0.5-1.0)071613 Filt Grab Surface Water
WS-007(0.5-1.0)071613 Filt Grab Surface Water
WS-006(0.5-1.0)071613 Filt Grab Surface Water
WS-006(0.5-1.0)071613MS Filt Grab Surface Water
WS-006(0.5-1.0)071613MSD Filt Grab Surface Water
WS-006(0.5-1.0)071613DUP Filt Grab Surface Water
WS-EB-02-071613 Filt Grab Water

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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

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1404597

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-003(Surface)071613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129365
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 07:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

1603F SDG#: PEJ16-01

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	0.0111	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						
SW-846 7470A						
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	131991848001	07/19/2013 12:06	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 12:06	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 12:06	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 12:06	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 12:06	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 12:06	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 12:06	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 12:06	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 12:06	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 08:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-018(1.5-2.0)071613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129366
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 07:20 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

1618F SDG#: PEJ16-02

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	0.0247	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	131991848001	07/19/2013 12:18	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 12:18	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 12:18	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 12:18	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 12:18	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 12:18	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 12:18	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 12:18	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 12:18	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 08:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)071613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129367
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 08:10 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

1611F SDG#: PEJ16-03

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	0.0118	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	131991848001	07/19/2013 12:22	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 12:22	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 12:22	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 12:22	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 12:22	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 12:22	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 12:22	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 12:22	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 12:22	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 08:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-014(1.5-2.0)071613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129368
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 09:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

1614F SDG#: PEJ16-04

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	0.0169	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
		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	131991848001	07/19/2013 12:25	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 12:25	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 12:25	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 12:25	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 12:25	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 12:25	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 12:25	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 12:25	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 12:25	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 08:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)071613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129369
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 10:10 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

1612F SDG#: PEJ16-05

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	0.0117	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	131991848001	07/19/2013 12:29	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 12:29	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 12:29	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 12:29	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 12:29	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 12:29	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 12:29	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 12:29	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 12:29	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 08:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)071613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129370
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 10:35 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

1610F SDG#: PEJ16-06

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	0.0129	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	131991848001	07/19/2013 12:33	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 12:33	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 12:33	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 12:33	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 12:33	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 12:33	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 12:33	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 12:33	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 12:33	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 08:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)071613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129371
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 12:35 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

1605F SDG#: PEJ16-07

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	0.0086	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	131991848001	07/19/2013 12:37	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 12:37	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 12:37	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 12:37	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 12:37	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 12:37	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 12:37	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 12:37	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 12:37	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 08:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)071613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129372
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 12:05 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

1602F SDG#: PEJ16-08

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	0.0111	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	131991848001	07/19/2013 12:41	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 12:41	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 12:41	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 12:41	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 12:41	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 12:41	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 12:41	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 12:41	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 12:41	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 09:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)071613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129373
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 13:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

1601F SDG#: PEJ16-09

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	0.0066	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						
SW-846 7470A						
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	131991848001	07/19/2013 12:44	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 12:44	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 12:44	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 12:44	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 12:44	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 12:44	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 12:44	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 12:44	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 12:44	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 09:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)071613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129374
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 14:00 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

1607F SDG#: PEJ16-10

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	0.0174	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	131991848001	07/19/2013 12:48	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 12:48	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 12:48	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 12:48	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 12:48	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 12:48	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 12:48	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 12:48	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 12:48	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 09:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)071613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129375
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 14:15 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

1606F SDG#: PEJ16-11BKG

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	0.0070	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	131991848001	07/19/2013 11:40	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 11:40	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 11:40	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 11:40	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 11:40	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 11:40	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 11:40	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 11:40	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 11:40	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 09:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)071613MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129376
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 14:15 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

1606F SDG#: PEJ16-11MS

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	0.156	0.0068	0.0200	1
07046	Barium	7440-39-3	2.15	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0523	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.211	0.0016	0.0150	1
07055	Lead	7439-92-1	0.162	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.538	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.160	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0517	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.539	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0010	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	131991848001	07/19/2013 11:51	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 11:51	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 11:51	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 11:51	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 11:51	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 11:51	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 11:51	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 11:51	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 11:51	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 09:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)071613MSD Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129377
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 14:15 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

1606F SDG#: PEJ16-11MSD

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	0.158	0.0068	0.0200	1
07049	Cadmium	7440-43-9	2.16	0.00033	0.0050	1
07051	Chromium	7440-47-3	0.0526	0.00076	0.0050	1
07055	Lead	7440-47-3	0.212	0.0016	0.0150	1
07061	Nickel	7439-92-1	0.163	0.0047	0.0150	1
07036	Selenium	7440-02-0	0.540	0.0015	0.0100	1
07066	Silver	7782-49-2	0.160	0.0084	0.0200	1
07071	Vanadium	7440-22-4	0.0513	0.0021	0.0050	1
		7440-62-2	0.543	0.0020	0.0050	1
SW-846 7470A						
00259	Mercury	7439-97-6	mg/l	mg/l	mg/l	
			0.0010	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	131991848001	07/19/2013 11:55	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 11:55	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 11:55	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 11:55	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 11:55	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 11:55	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 11:55	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 11:55	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 11:55	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 09:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)071613DUP Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129378
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 14:15 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

1606F SDG#: PEJ16-11DUP

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	0.0069	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						
SW-846 7470A						
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	131991848001	07/19/2013 11:47	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 11:47	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 11:47	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 11:47	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 11:47	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 11:47	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 11:47	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 11:47	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 11:47	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 09:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-EB-02-071613 Filt Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7129379
LL Group # 1404597
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/16/2013 15:10 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/17/2013 09:20

PO Box 4416

Reported: 07/19/2013 13:47

Houston TX 77210-4416

16E2F SDG#: PEJ16-12EB*

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	0.0026 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	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	131991848001	07/19/2013 12:52	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131991848001	07/19/2013 12:52	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131991848001	07/19/2013 12:52	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131991848001	07/19/2013 12:52	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131991848001	07/19/2013 12:52	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131991848001	07/19/2013 12:52	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131991848001	07/19/2013 12:52	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131991848001	07/19/2013 12:52	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131991848001	07/19/2013 12:52	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131995713001	07/19/2013 09:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848001	07/18/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131995713001	07/18/2013 16:30	Nelli S Markaryan	1

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

Quality Control SummaryClient Name: ExxonMobil
Reported: 07/19/13 at 01:47 PM

Group Number: 1404597

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: 131991848001	Sample number(s): 7129365-7129379								
Arsenic	N.D.	0.0068	0.0200	mg/l	104		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	107		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	106		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	106		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	108		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	109		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	105		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	103		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	107		90-110		
Batch number: 131995713001	Sample number(s): 7129365-7129379								
Mercury	N.D.	0.00006	0.00020	mg/l	100		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: 131991848001	Sample number(s): 7129365-7129379 UNSPK: 7129375 BKG: 7129375								
Arsenic	104	105	81-123	2	20	N.D.	N.D.	0 (1)	20
Barium	107	107	78-118	0	20	0.0070	0.0069	1 (1)	20
Cadmium	105	105	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	105	106	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	108	109	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	108	108	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	107	107	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	103	103	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	108	109	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 131995713001	Sample number(s): 7129365-7129379 UNSPK: 7129375 BKG: 7129375								
Mercury	105	105	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 Lancaster Laboratories use only
Group # 1404597 Sample # 7129365-79
Instructions on reverse side correspond with circled numbers.

1 of 2

Eurolins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300
The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management
7053.01

For Lancaster Laboratories use only
Acct. # 14739 Group # 1404597 Sample # 7129365-79
Instructions on reverse side correspond with circled numbers.

2 of 2

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

Issued by Dept. 40 Management
7053.01

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

Rachel L. Kreamer A# 14739 Gr# 1404597 Samples 7129365-79

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Wednesday, July 17, 2013 3:22 PM
To: Rachel L. Kreamer
Cc: Kathy Klinefelter; Chandler, Jennifer; Parrinello, Auguste; Lipka, Shelby
Subject: RE: MS/MSD sample for surface waters received Wednesday, 7/17

Rachel,

According to the field notes, the MS/MSD was collected at WS-006(0.5-1.0)071613. The coc is incorrect.

Lyndi Mott

-----Original Message-----

From: Rachel L. Kreamer [mailto:RKreamer@lanasterlabs.com]
Sent: Wednesday, July 17, 2013 1:22 PM
To: Mott, Lyndi
Cc: Kathy Klinefelter
Subject: MS/MSD sample for surface waters received Wednesday, 7/17

Lyndi,

I attached the chain and doc log for today's surface water samples. The chain lists the MS/MSD as WS-007(0.5-1.0)071613 but the labels say WS-006(0.5-1.0)071613. The collection information on the labels is 7/16/13 @ 1415. Can you please let me know which is correct?

Thanks
Rachel

-----Original Message-----

From: 39Scanner@lanasterlabs.com [mailto:39Scanner@lanasterlabs.com]
Sent: Wednesday, July 17, 2013 2:17 PM
To: Rachel L. Kreamer
Subject:

This E-mail was sent from "RNP367EC2" (MP 4001/LD140).

Scan Date: 07.17.2013 14:16:41 (-0400)
Queries to: 39Scanner@lanasterlabs.com

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Environmental Sample Administration
Receipt Documentation Log

1404597

Client/Project: Xom MayflowerShipping Container Sealed: YES NODate of Receipt: 7/17/13Custody Seal Present * : YES NOTime of Receipt: 0920* 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	DT121	0.4	TB	WI	Y	B	
2	↓	2.4	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

MS, MSD Samples = WS-006(0.5-1.0)071613 coll.
7/6/13 @ 1415Unpacker Signature/Emp#: Jameslund / 208 Date/Time: 7/17/13 / 0940

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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