

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 23, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 07/18/2013

Group Number: 1404974

SDG: PEJ21

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
WS-003(Surface)071713 Filt Grab Surface Water	7130813
WS-018(Surface)071713 Filt Grab Surface Water	7130814
WS-011(Surface)071713 Filt Grab Surface Water	7130815
WS-014(1.5-2.0)071713 Filt Grab Surface Water	7130816
WS-012(1.5-2.0)071713 Filt Grab Surface Water	7130817
WS-010(1.5-2.0)071713 Filt Grab Surface Water	7130818
WS-005(Surface)071713 Filt Grab Surface Water	7130819
WS-002(Surface)071713 Filt Grab Surface Water	7130820
WS-001(0.5-1.0)071713 Filt Grab Surface Water	7130821
WS-007(0.5-1.0)071713 Filt Grab Surface Water	7130822
WS-006(0.5-1.0)071713 Filt Grab Surface Water	7130823
DUP-WS-57-071713 Filt Grab Surface Water	7130824
WS-EB-03-071713 Filt Grab Water	7130825

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 #: 1404974

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

Analysis Specific Comments:

No additional comments are necessary.

Sample Description: WS-003 (Surface) 071713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7130813
LL Group # 1404974
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/17/2013 08:20 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/18/2013 09:25

PO Box 4416

Reported: 07/23/2013 13:09

Houston TX 77210-4416

1703F SDG#: PEJ21-01

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	0.0133	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	131991848006	07/20/2013 20:07	John P Hook	1
07046	Barium	SW-846 6010B	1	131991848006	07/20/2013 20:07	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131991848006	07/20/2013 20:07	John P Hook	1
07051	Chromium	SW-846 6010B	1	131991848006	07/20/2013 20:07	John P Hook	1
07055	Lead	SW-846 6010B	1	131991848006	07/20/2013 20:07	John P Hook	1
07061	Nickel	SW-846 6010B	1	131991848006	07/20/2013 20:07	John P Hook	1
07036	Selenium	SW-846 6010B	1	131991848006	07/20/2013 20:07	John P Hook	1
07066	Silver	SW-846 6010B	1	131991848006	07/20/2013 20:07	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131991848006	07/20/2013 20:07	John P Hook	1
00259	Mercury	SW-846 7470A	1	132005713001	07/23/2013 06:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848006	07/20/2013 08:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132005713001	07/22/2013 16:40	Nelli S Markaryan	1

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

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Sample Description: WS-018 (Surface) 071713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7130814
LL Group # 1404974
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/17/2013 11:35 by AP ExxonMobil
Mobil Pipeline Company
Submitted: 07/18/2013 09:25 PO Box 4416
Reported: 07/23/2013 13:09 Houston TX 77210-4416

1718F SDG#: PEJ21-02

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	0.0163	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	131991848006	07/20/2013 20:11	John P Hook	1
07046	Barium	SW-846 6010B	1	131991848006	07/20/2013 20:11	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131991848006	07/20/2013 20:11	John P Hook	1
07051	Chromium	SW-846 6010B	1	131991848006	07/20/2013 20:11	John P Hook	1
07055	Lead	SW-846 6010B	1	131991848006	07/20/2013 20:11	John P Hook	1
07061	Nickel	SW-846 6010B	1	131991848006	07/20/2013 20:11	John P Hook	1
07036	Selenium	SW-846 6010B	1	131991848006	07/20/2013 20:11	John P Hook	1
07066	Silver	SW-846 6010B	1	131991848006	07/20/2013 20:11	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131991848006	07/20/2013 20:11	John P Hook	1
00259	Mercury	SW-846 7470A	1	132005713001	07/23/2013 06:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848006	07/20/2013 08:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132005713001	07/22/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-011(Surface)071713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7130815
LL Group # 1404974
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/17/2013 08:10 by AP

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

Submitted: 07/18/2013 09:25

Reported: 07/23/2013 13:09

1711F SDG#: PEJ21-03

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	0.0119	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	131991848006	07/20/2013 20:21	John P Hook	1
07046	Barium	SW-846 6010B	1	131991848006	07/20/2013 20:21	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131991848006	07/20/2013 20:21	John P Hook	1
07051	Chromium	SW-846 6010B	1	131991848006	07/20/2013 20:21	John P Hook	1
07055	Lead	SW-846 6010B	1	131991848006	07/20/2013 20:21	John P Hook	1
07061	Nickel	SW-846 6010B	1	131991848006	07/20/2013 20:21	John P Hook	1
07036	Selenium	SW-846 6010B	1	131991848006	07/20/2013 20:21	John P Hook	1
07066	Silver	SW-846 6010B	1	131991848006	07/20/2013 20:21	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131991848006	07/20/2013 20:21	John P Hook	1
00259	Mercury	SW-846 7470A	1	132005713001	07/23/2013 06:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848006	07/20/2013 08:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132005713001	07/22/2013 16:40	Nelli S Markaryan	1

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

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Sample Description: WS-014(1.5-2.0)071713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7130816
LL Group # 1404974
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/17/2013 10:00 by AP

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

Submitted: 07/18/2013 09:25

Reported: 07/23/2013 13:09

1714F SDG#: PEJ21-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0133	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	131991848006	07/20/2013 20:25	John P Hook	1
07046	Barium	SW-846 6010B	1	131991848006	07/20/2013 20:25	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131991848006	07/20/2013 20:25	John P Hook	1
07051	Chromium	SW-846 6010B	1	131991848006	07/20/2013 20:25	John P Hook	1
07055	Lead	SW-846 6010B	1	131991848006	07/20/2013 20:25	John P Hook	1
07061	Nickel	SW-846 6010B	1	131991848006	07/20/2013 20:25	John P Hook	1
07036	Selenium	SW-846 6010B	1	131991848006	07/20/2013 20:25	John P Hook	1
07066	Silver	SW-846 6010B	1	131991848006	07/20/2013 20:25	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131991848006	07/20/2013 20:25	John P Hook	1
00259	Mercury	SW-846 7470A	1	132005713001	07/23/2013 06:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848006	07/20/2013 08:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132005713001	07/22/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)071713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7130817
LL Group # 1404974
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/17/2013 10:20 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/18/2013 09:25

PO Box 4416

Reported: 07/23/2013 13:09

Houston TX 77210-4416

1712F SDG#: PEJ21-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0109	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	131991848006	07/20/2013 20:29	John P Hook	1
07046	Barium	SW-846 6010B	1	131991848006	07/20/2013 20:29	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131991848006	07/20/2013 20:29	John P Hook	1
07051	Chromium	SW-846 6010B	1	131991848006	07/20/2013 20:29	John P Hook	1
07055	Lead	SW-846 6010B	1	131991848006	07/20/2013 20:29	John P Hook	1
07061	Nickel	SW-846 6010B	1	131991848006	07/20/2013 20:29	John P Hook	1
07036	Selenium	SW-846 6010B	1	131991848006	07/20/2013 20:29	John P Hook	1
07066	Silver	SW-846 6010B	1	131991848006	07/20/2013 20:29	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131991848006	07/20/2013 20:29	John P Hook	1
00259	Mercury	SW-846 7470A	1	132005713001	07/23/2013 06:47	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848006	07/20/2013 08:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132005713001	07/22/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)071713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7130818
LL Group # 1404974
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/17/2013 10:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/18/2013 09:25

PO Box 4416

Reported: 07/23/2013 13:09

Houston TX 77210-4416

1710F SDG#: PEJ21-06

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	0.0108	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	131991848006	07/20/2013 20:32	John P Hook	1
07046	Barium	SW-846 6010B	1	131991848006	07/20/2013 20:32	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131991848006	07/20/2013 20:32	John P Hook	1
07051	Chromium	SW-846 6010B	1	131991848006	07/20/2013 20:32	John P Hook	1
07055	Lead	SW-846 6010B	1	131991848006	07/20/2013 20:32	John P Hook	1
07061	Nickel	SW-846 6010B	1	131991848006	07/20/2013 20:32	John P Hook	1
07036	Selenium	SW-846 6010B	1	131991848006	07/20/2013 20:32	John P Hook	1
07066	Silver	SW-846 6010B	1	131991848006	07/20/2013 20:32	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131991848006	07/20/2013 20:32	John P Hook	1
00259	Mercury	SW-846 7470A	1	132005713001	07/23/2013 06:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848006	07/20/2013 08:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132005713001	07/22/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-005 (Surface) 071713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7130819
LL Group # 1404974
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/17/2013 11:15 by AP

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

Submitted: 07/18/2013 09:25

Reported: 07/23/2013 13:09

1705F SDG#: PEJ21-07

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	0.0079	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	131991848006	07/20/2013 19:46	John P Hook	1
07046	Barium	SW-846 6010B	1	131991848006	07/20/2013 19:46	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131991848006	07/20/2013 19:46	John P Hook	1
07051	Chromium	SW-846 6010B	1	131991848006	07/20/2013 19:46	John P Hook	1
07055	Lead	SW-846 6010B	1	131991848006	07/20/2013 19:46	John P Hook	1
07061	Nickel	SW-846 6010B	1	131991848006	07/20/2013 19:46	John P Hook	1
07036	Selenium	SW-846 6010B	1	131991848006	07/20/2013 19:46	John P Hook	1
07066	Silver	SW-846 6010B	1	131991848006	07/20/2013 19:46	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131991848006	07/20/2013 19:46	John P Hook	1
00259	Mercury	SW-846 7470A	1	132005713001	07/23/2013 06:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848006	07/20/2013 08:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132005713001	07/22/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-002 (Surface) 071713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7130820
LL Group # 1404974
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/17/2013 11:50 by AP

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

Submitted: 07/18/2013 09:25

Reported: 07/23/2013 13:09

1702F SDG#: PEJ21-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved			mg/l	mg/l	mg/l	
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			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	131991848006	07/20/2013 20:36	John P Hook	1
07046	Barium	SW-846 6010B	1	131991848006	07/20/2013 20:36	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131991848006	07/20/2013 20:36	John P Hook	1
07051	Chromium	SW-846 6010B	1	131991848006	07/20/2013 20:36	John P Hook	1
07055	Lead	SW-846 6010B	1	131991848006	07/20/2013 20:36	John P Hook	1
07061	Nickel	SW-846 6010B	1	131991848006	07/20/2013 20:36	John P Hook	1
07036	Selenium	SW-846 6010B	1	131991848006	07/20/2013 20:36	John P Hook	1
07066	Silver	SW-846 6010B	1	131991848006	07/20/2013 20:36	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131991848006	07/20/2013 20:36	John P Hook	1
00259	Mercury	SW-846 7470A	1	132005713001	07/23/2013 06:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848006	07/20/2013 08:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132005713001	07/22/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)071713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7130821
LL Group # 1404974
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/17/2013 12:30 by AP

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

Submitted: 07/18/2013 09:25

Reported: 07/23/2013 13:09

1701F SDG#: PEJ21-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0053	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	131991848006	07/20/2013 20:39	John P Hook	1
07046	Barium	SW-846 6010B	1	131991848006	07/20/2013 20:39	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131991848006	07/20/2013 20:39	John P Hook	1
07051	Chromium	SW-846 6010B	1	131991848006	07/20/2013 20:39	John P Hook	1
07055	Lead	SW-846 6010B	1	131991848006	07/20/2013 20:39	John P Hook	1
07061	Nickel	SW-846 6010B	1	131991848006	07/20/2013 20:39	John P Hook	1
07036	Selenium	SW-846 6010B	1	131991848006	07/20/2013 20:39	John P Hook	1
07066	Silver	SW-846 6010B	1	131991848006	07/20/2013 20:39	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131991848006	07/20/2013 20:39	John P Hook	1
00259	Mercury	SW-846 7470A	1	132005713001	07/23/2013 06:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848006	07/20/2013 08:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132005713001	07/22/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)071713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7130822
LL Group # 1404974
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/17/2013 12:40 by AP

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

Submitted: 07/18/2013 09:25

Reported: 07/23/2013 13:09

1707F SDG#: PEJ21-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0214	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	0.0017 J	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	131991848006	07/20/2013 20:43	John P Hook	1
07046	Barium	SW-846 6010B	1	131991848006	07/20/2013 20:43	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131991848006	07/20/2013 20:43	John P Hook	1
07051	Chromium	SW-846 6010B	1	131991848006	07/20/2013 20:43	John P Hook	1
07055	Lead	SW-846 6010B	1	131991848006	07/20/2013 20:43	John P Hook	1
07061	Nickel	SW-846 6010B	1	131991848006	07/20/2013 20:43	John P Hook	1
07036	Selenium	SW-846 6010B	1	131991848006	07/20/2013 20:43	John P Hook	1
07066	Silver	SW-846 6010B	1	131991848006	07/20/2013 20:43	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131991848006	07/20/2013 20:43	John P Hook	1
00259	Mercury	SW-846 7470A	1	132005713001	07/23/2013 07:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848006	07/20/2013 08:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132005713001	07/22/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)071713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7130823
LL Group # 1404974
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/17/2013 12:50 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 07/18/2013 09:25

PO Box 4416

Reported: 07/23/2013 13:09

Houston TX 77210-4416

1706F SDG#: PEJ21-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0073	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	131991848006	07/20/2013 20:47	John P Hook	1
07046	Barium	SW-846 6010B	1	131991848006	07/20/2013 20:47	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131991848006	07/20/2013 20:47	John P Hook	1
07051	Chromium	SW-846 6010B	1	131991848006	07/20/2013 20:47	John P Hook	1
07055	Lead	SW-846 6010B	1	131991848006	07/20/2013 20:47	John P Hook	1
07061	Nickel	SW-846 6010B	1	131991848006	07/20/2013 20:47	John P Hook	1
07036	Selenium	SW-846 6010B	1	131991848006	07/20/2013 20:47	John P Hook	1
07066	Silver	SW-846 6010B	1	131991848006	07/20/2013 20:47	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131991848006	07/20/2013 20:47	John P Hook	1
00259	Mercury	SW-846 7470A	1	132005713001	07/23/2013 07:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848006	07/20/2013 08:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132005713001	07/22/2013 16:40	Nelli S Markaryan	1

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

Sample Description: DUP-WS-57-071713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7130824
LL Group # 1404974
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/17/2013 by AP

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

Submitted: 07/18/2013 09:25

Reported: 07/23/2013 13:09

1757F SDG#: PEJ21-12FD

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	0.0221	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	0.000081 J	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	131991848006	07/20/2013 20:50	John P Hook	1
07046	Barium	SW-846 6010B	1	131991848006	07/20/2013 20:50	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131991848006	07/20/2013 20:50	John P Hook	1
07051	Chromium	SW-846 6010B	1	131991848006	07/20/2013 20:50	John P Hook	1
07055	Lead	SW-846 6010B	1	131991848006	07/20/2013 20:50	John P Hook	1
07061	Nickel	SW-846 6010B	1	131991848006	07/20/2013 20:50	John P Hook	1
07036	Selenium	SW-846 6010B	1	131991848006	07/20/2013 20:50	John P Hook	1
07066	Silver	SW-846 6010B	1	131991848006	07/20/2013 20:50	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131991848006	07/20/2013 20:50	John P Hook	1
00259	Mercury	SW-846 7470A	1	132005713001	07/23/2013 07:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848006	07/20/2013 08:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132005713001	07/22/2013 16:40	Nelli S Markaryan	1

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

Sample Description: **WS-EB-03-071713 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7130825**
 LL Group # **1404974**
 Account # **14739**

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

Collected: 07/17/2013 14:30 by AP

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

Submitted: 07/18/2013 09:25

Reported: 07/23/2013 13:09

17E3F SDG#: PEJ21-13EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	N.D.	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	131991848006	07/20/2013 20:54	John P Hook	1
07046	Barium	SW-846 6010B	1	131991848006	07/20/2013 20:54	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131991848006	07/20/2013 20:54	John P Hook	1
07051	Chromium	SW-846 6010B	1	131991848006	07/20/2013 20:54	John P Hook	1
07055	Lead	SW-846 6010B	1	131991848006	07/20/2013 20:54	John P Hook	1
07061	Nickel	SW-846 6010B	1	131991848006	07/20/2013 20:54	John P Hook	1
07036	Selenium	SW-846 6010B	1	131991848006	07/20/2013 20:54	John P Hook	1
07066	Silver	SW-846 6010B	1	131991848006	07/20/2013 20:54	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131991848006	07/20/2013 20:54	John P Hook	1
00259	Mercury	SW-846 7470A	1	132005713001	07/23/2013 07:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131991848006	07/20/2013 08:38	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132005713001	07/22/2013 16:40	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/23/13 at 01:09 PM

Group Number: 1404974

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: 131991848006	Sample number(s): 7130813-7130825								
Arsenic	N.D.	0.0068	0.0200	mg/l	100		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	99		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	97		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	100		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	99		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	102		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	98		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	111		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	103		90-110		
Batch number: 132005713001	Sample number(s): 7130813-7130825								
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: 131991848006	Sample number(s): 7130813-7130825 UNSPK: 7130819 BKG: 7130819								
Arsenic	101	103	81-123	2	20	N.D.	N.D.	0 (1)	20
Barium	99	100	78-118	0	20	0.0079	0.0077	3 (1)	20
Cadmium	96	98	83-116	2	20	N.D.	N.D.	0 (1)	20
Chromium	101	100	81-120	0	20	N.D.	N.D.	0 (1)	20
Lead	97	98	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	101	102	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	98	98	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	113	111	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	104	104	90-111	0	20	N.D.	N.D.	0 (1)	20
Batch number: 132005713001	Sample number(s): 7130813-7130825 UNSPK: 7130821 BKG: 7130821								
Mercury	104	104	80-120	1	20	N.D.	N.D.	0 (1)	20

*- Outside of specification

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

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

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

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 14739

For Lancaster Laboratories use only

Group # 1404974 Sample # 7130813-25

Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks							
Facility #/SID <u>MAYFLOWER PIPELINE INCIDENT</u>				Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/>	Ground <input type="checkbox"/> Surface <input checked="" type="checkbox"/>	NPDES <input type="checkbox"/> Air <input type="checkbox"/>	Total # of Containers	Preservation Code										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other							
Site Address <u>MAYFLOWER, AR</u>								Grab <input type="checkbox"/> Composite <input type="checkbox"/>	Soil <input type="checkbox"/>	VOCs <u>8260</u>	PAHs <u>8270</u>	PCRA METALS <u>CA, MG, V, S</u>	DISS. METALS *											* LAB TO FILTER AND PRESERVE UPON RECEIPT.	
ExxonMobil PM <u>SCOTT BUSHROE</u>		Cost Center/AFE																							
Consultant/Office <u>ARCADIS</u>		Consultant Phone # <u>919 202 6779</u>																							
Consultant PM <u>STEVE BARRICK</u>		Sampler <u>A. PARRINELLO / HANS VAN ALLER</u>																							
2 Sample Identification				3 Collected																					
		Date	Time	Grab	Composite																				
WS-003 (SURFACE)		071713	820	✓		7	3	2																	
WS-018 (SURFACE)		071713	1135	✓		7	3	2																	
WS-011 (SURFACE)		071713	810	✓		7	3	2																	
WS-014 (1.5-2.0)		071713	1000	✓		7	3	2																	
WS-012 (1.5-2.0)		071713	1020	✓		7	3	2																	
WS-010 (1.5-2.0)		071713	1045	✓		7	3	2																	
WS-005 (SURFACE)		071713	1115	✓		7	3	2																	
WS-002 (SURFACE)		071713	1150	✓		7	3	2																	
WS-001 (0.5-1.0)		071713	1230	✓		7	3	2																	
WS-007 (0.5-1.0)		071713	1240	✓		7	3	2																	
WS-006 (0.5-1.0)		071713	1250	✓		7	3	2																	
DWD-WS-57-071713		071713	-	✓		7	3	2																	

7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>[Signature]</u>		Date	Time	Received by		Date	Time	
Standard	<u>5 day</u>	4 day		Relinquished by		Date	Time	Received by		Date	Time	
72 hour	48 hour	24 hour		Relinquished by		Date	Time	Received by		Date	Time	
8 Data Package (circle if required)				Relinquished by Commercial Carrier		Temperature Upon Receipt <u>24-34 °C</u>		Custody Seals Intact? <u>Yes</u>		Date		Time
Type I - Full Type VI (Raw Data) NJ Reduced Other _____				EDD (circle if required) Locus EIM (default) Other _____		UPS _____ FedEx <u>X</u> Other _____		Received by <u>Deborah Nesler</u>		Date <u>7/18/13</u>		Time <u>0925</u>

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories

For Lancaster Laboratories use only
 Acct. # 14739 Group # 1404974 Sample # 7130813-25
Instructions on reverse side correspond with circled numbers.

2 of 2

1 Client Information				4 Matrix				5 Analyses Requested												SCR#: _____																																																																																
Facility #/SID <u>MAYFLOWER PIPELINE FACILITY</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Soil <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Water <input type="checkbox"/> Oil				Preservation Code												6 Preservation Codes																																																																																
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Rachel L. Kreamer

A# 14739 Gr# 1404974 Samples 7130813-25

From: Chandler, Jennifer [Jennifer.Chandler@arcadis-us.com]
Sent: Thursday, July 18, 2013 2:08 PM
To: Rachel L. Kreamer
Cc: Kathy Klinefelter
Subject: RE: Collection time for sample received today

Rachel,

According to the field notes, WS-002(surface)071713 has a collection time of 1150, which matches the COC. The bottle label is incorrect.

Thanks,

Jennifer Chandler | Scientist 2 | jennifer.chandler@arcadis-us.com ARCADIS U.S., Inc. |
630 Plaza Drive, Suite 100 | Highlands Ranch, CO, 80129 T. 303.471.3549 | F. 720.344.3535
www.arcadis-us.com Please consider the environment before printing this email.

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

From: Rachel L. Kreamer [mailto:RKreamer@lancasterlabs.com]
Sent: Thursday, July 18, 2013 11:50 AM
To: Chandler, Jennifer
Cc: Kathy Klinefelter
Subject: Collection time for sample received today

Jennifer,

Attached are the chain and doc log for the surface water samples we received today. Sample WS-002(surface)071713 has a collection time of 1150 on the chain. The bottle labels say 1050. Which time should we use?

Thanks
Rachel

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

From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Thursday, July 18, 2013 1:45 PM
To: Rachel L. Kreamer
Subject:

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

Scan Date: 07.18.2013 13:44:41 (-0400)
Queries to: 39Scanner@lancasterlabs.com

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Environmental Sample Administration 1404974
Receipt Documentation Log

Client/Project: XOM Mayflower
 Date of Receipt: 7/18/13
 Time of Receipt: 0925
 Source Code: 50-1

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

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	3.4	TB	WI	Y	B	
2	↓	2.4	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:
US-002 Time on label = 1050

Unpacker Signature/Emp#: [Signature] / 208 Date/Time: 7/18/13 / 0940

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 limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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

ppb parts per billion

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

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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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