

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

August 12, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 08/06/2013

Group Number: 1409302

SDG: PEK18

PO Number: ARCADIS

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
WS-014(1.5-2.0)080513 Filt Grab Surface Water	7151090
WS-014(5.5-6.0)080513 Filt Grab Surface Water	7151091
WS-012(1.5-2.0)080513 Filt Grab Surface Water	7151092
WS-012(5.0-5.5)080513 Filt Grab Surface Water	7151093
WS-010(1.5-2.0)080513 Filt Grab Surface Water	7151094
WS-010(3.5-4.0)080513 Filt Grab Surface Water	7151095
WS-006(0.5-1.5)080513 Filt Grab Surface Water	7151096
WS-006(0.5-1.5)080513MS Filt Grab Surface Water	7151097
WS-006(0.5-1.5)080513MSD Filt Grab Surface Water	7151098
WS-006(0.5-1.5)080513DUP Filt Grab Surface Water	7151099
WS-005(Surface)080513 Filt Grab Surface Water	7151100
WS-011(1.5-2.0)080513 Filt Grab Surface Water	7151101
WS-011(5.0-5.5)080513 Filt Grab Surface Water	7151102
WS-003(Surface)080513 Filt Grab Surface Water	7151103
WS-018(Surface)080513 Filt Grab Surface Water	7151104
WS-002(Surface)080513 Filt Grab Surface Water	7151105
WS-007(0.5-1.0)080513 Filt Grab Surface Water	7151106
WS-001(0.5-1.0)080513 Filt Grab Surface Water	7151107
WS-EB-21-80513 Filt Grab Water	7151108

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

ELECTRONIC COPY TO
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ARCADIS
ARCADIS

Attn: Stephen Barrick

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 #: 1409302

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.

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Sample Description: WS-014(1.5-2.0)080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151090
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 08:20 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05141 SDG#: PEK18-01

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	0.0114	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	132181848006	08/10/2013 10:30	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 09:27	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 10:30	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 09:27	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 10:30	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 10:30	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 10:30	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 09:27	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 09:27	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 06:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151091
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 08:30 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05142 SDG#: PEK18-02

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	0.0119	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	132181848006	08/10/2013 10:34	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 09:30	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 10:34	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 09:30	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 10:34	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 10:34	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 10:34	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 09:30	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 09:30	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 06:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

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Sample Description: WS-012(1.5-2.0)080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151092
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 08:40 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05121 SDG#: PEK18-03

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	0.0106	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	132181848006	08/10/2013 10:44	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 09:41	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 10:44	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 09:41	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 10:44	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 10:44	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 10:44	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 09:41	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 09:41	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 06:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151093
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 08:50 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05122 SDG#: PEK18-04

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	0.0100	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	132181848006	08/10/2013 10:48	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 09:45	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 10:48	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 09:45	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 10:48	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 10:48	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 10:48	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 09:45	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 09:45	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 06:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151094
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 09:10 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05101 SDG#: PEK18-05

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	0.0114	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	132181848006	08/10/2013 10:52	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 09:48	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 10:52	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 09:48	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 10:52	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 10:52	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 10:52	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 09:48	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 09:48	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 06:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151095
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 09:20 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05102 SDG#: PEK18-06

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	0.0119	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	132181848006	08/10/2013 10:55	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 09:52	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 10:55	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 09:52	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 10:55	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 10:55	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 10:55	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 09:52	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 09:52	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 06:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

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Sample Description: WS-006(0.5-1.5)080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151096
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 09:30 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05006 SDG#: PEK18-07BKG

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	0.0137	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	132181848006	08/10/2013 10:08	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 09:05	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 10:08	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 09:05	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 10:08	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 10:08	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 10:08	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 09:05	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 09:05	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 06:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.5)080513MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151097
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 09:30 by JW

ExxonMobil

Submitted: 08/06/2013 09:30

Mobil Pipeline Company

Reported: 08/12/2013 04:41

PO Box 4416

Houston TX 77210-4416

05006 SDG#: PEK18-07MS

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	0.153	0.0068	0.0200	1
07046	Barium	7440-39-3	2.06	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0499	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.204	0.0016	0.0150	1
07055	Lead	7439-92-1	0.146	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.514	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.145	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0566	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.500	0.0020	0.0050	1
SW-846 6010B			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00092	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	132181848006	08/10/2013 10:19	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 09:15	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 10:19	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 09:15	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 10:19	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 10:19	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 10:19	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 09:15	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 09:15	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 06:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.5)080513MSD Filtr Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151098
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 09:30 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 08/06/2013 09:30

PO Box 4416

Reported: 08/12/2013 04:41

Houston TX 77210-4416

05006 SDG#: PEK18-07MSD

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	0.149	0.0068	0.0200	1
07046	Barium	7440-39-3	2.05	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0498	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.204	0.0016	0.0150	1
07055	Lead	7439-92-1	0.146	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.507	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.140	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0562	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.492	0.0020	0.0050	1
SW-846 6010B			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00092	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	132181848006	08/10/2013 10:23	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 09:19	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 10:23	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 09:19	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 10:23	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 10:23	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 10:23	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 09:19	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 09:19	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 06:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.5)080513DUP Filtr Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151099
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 09:30 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05006 SDG#: PEK18-07DUP

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	0.0135	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	132181848006	08/10/2013 10:16	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 09:12	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 10:16	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 09:12	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 10:16	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 10:16	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 10:16	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 09:12	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 09:12	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 06:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-005 (Surface) 080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151100
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 09:50 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05005 SDG#: PEK18-08

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	0.0185	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	132181848006	08/10/2013 10:59	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 09:55	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 10:59	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 09:55	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 10:59	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 10:59	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 10:59	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 09:55	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 09:55	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 06:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151101
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 10:20 by JW ExxonMobil
Mobil Pipeline Company
Submitted: 08/06/2013 09:30 PO Box 4416
Reported: 08/12/2013 04:41 Houston TX 77210-4416

05111 SDG#: PEK18-09

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

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132181848006	08/10/2013 11:03	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 09:59	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 11:03	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 09:59	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 11:03	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 11:03	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 11:03	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 09:59	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 09:59	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 07:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151102
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 10:30 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05112 SDG#: PEK18-10

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	0.0138	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	132181848006	08/10/2013 11:06	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 10:03	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 11:06	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 10:03	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 11:06	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 11:06	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 11:06	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 10:03	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 10:03	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 07:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

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Sample Description: WS-003 (Surface) 080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151103
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 10:40 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05003 SDG#: PEK18-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0125	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	132181848006	08/10/2013 11:10	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 10:06	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 11:10	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 10:06	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 11:10	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 11:10	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 11:10	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 10:06	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 10:06	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 07:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-018 (Surface) 080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151104
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 11:10 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05018 SDG#: PEK18-12

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	0.0173	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	132181848006	08/10/2013 11:14	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 10:10	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 11:14	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 10:10	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 11:14	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 11:14	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 11:14	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 10:10	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 10:10	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 07:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

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

Sample Description: WS-002 (Surface) 080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151105
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 11:30 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05002 SDG#: PEK18-13

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	0.0090	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	132181848006	08/10/2013 11:17	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 10:14	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 11:17	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 10:14	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 11:17	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 11:17	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 11:17	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 10:14	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 10:14	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 07:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151106
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 11:40 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05007 SDG#: PEK18-14

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	0.0177	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	132181848006	08/10/2013 11:28	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 10:24	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 11:28	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 10:24	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 11:28	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 11:28	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 11:28	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 10:24	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 10:24	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 07:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)080513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7151107
LL Group # 1409302
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/05/2013 12:00 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05001 SDG#: PEK18-15

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	0.0105	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	132181848006	08/10/2013 11:31	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 10:28	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 11:31	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 10:28	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 11:31	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 11:31	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 11:31	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 10:28	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 10:28	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 07:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Sample Description: **WS-EB-21-80513 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7151108**
 LL Group # **1409302**
 Account # **14739**

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

Collected: 08/05/2013 14:00 by JW

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

Submitted: 08/06/2013 09:30

Reported: 08/12/2013 04:41

05E21 SDG#: PEK18-16EB*

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	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 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	132181848006	08/10/2013 11:35	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132181848006	08/11/2013 10:32	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132181848006	08/10/2013 11:35	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132181848006	08/11/2013 10:32	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132181848006	08/10/2013 11:35	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132181848006	08/10/2013 11:35	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132181848006	08/10/2013 11:35	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132181848006	08/11/2013 10:32	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132181848006	08/11/2013 10:32	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132185713007	08/08/2013 07:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132181848006	08/07/2013 10:24	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132185713007	08/07/2013 16:45	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 08/12/13 at 04:41 AM

Group Number: 1409302

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: 132181848006	Sample number(s): 7151090-7151108								
Arsenic	N.D.	0.0068	0.0200	mg/l	100		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	103		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	99		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	103		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	97		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	102		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	93		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	113		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	101		90-110		
Batch number: 132185713007	Sample number(s): 7151090-7151108								
Mercury	N.D.	0.00006	0.00020	mg/l	93		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: 132181848006	Sample number(s): 7151090-7151108 UNSPK: 7151096 BKG: 7151096								
Arsenic	102	99	81-123	3	20	N.D.	N.D.	0 (1)	20
Barium	102	102	78-118	1	20	0.0137	0.0135	1 (1)	20
Cadmium	100	100	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	102	102	81-120	0	20	N.D.	N.D.	0 (1)	20
Lead	98	97	75-125	0	20	N.D.	N.D.	0 (1)	20
Nickel	103	101	86-115	1	20	N.D.	N.D.	0 (1)	20
Selenium	96	94	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	113	112	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	100	98	90-111	2	20	N.D.	N.D.	0 (1)	20
Batch number: 132185713007	Sample number(s): 7151090-7151108 UNSPK: 7151096 BKG: 7151096								
Mercury	92	92	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.

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
Group # 1469302 Sample # 7151090-108
Instructions on reverse side correspond with circled numbers.

1002

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks																																								
Facility #/SID <u>MAYFLOWER PIPELINE INCIDENT</u>				Soil <input type="checkbox"/>	Sediment <input type="checkbox"/>	Potable <input type="checkbox"/>	Ground <input type="checkbox"/>	Water <input type="checkbox"/>	NPDES <input type="checkbox"/>	Surface <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	Air <input type="checkbox"/>	Total # of Containers	Preservation Code										SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																		
Site Address <u>MAYFLOWER, AR.</u>														<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td><td>#</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#											
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ExxonMobil PM <u>SCOTT BUSTROE</u>		Cost Center/AFE		Grab		Composite		VOC's <u>82600 B</u> PAH's <u>8270 SIM</u> ACRA METALS + V.N.I. <u>CONC</u> DISS METALS HEAVY OIL & GREASE		⑥ Remarks LAB TO FILTER AND PRESERVE DISS. METALS UPON RECEIPT.																																																
Consultant/Office <u>ATCADIS</u>		Consultant Phone # <u>919 202 6799</u>		Date		Time																																																				
Consultant PM <u>STEVE BARRICK</u>		Sampler <u>J. WALDRON / J. MCCOMAS</u>		Sample Identification		Turnaround Time Requested (TAT) (please circle)		Relinquished by		Date		Time		Received by		Date		Time																																								
⑦ Standard <u>5 day</u> 4 day 72 hour 48 hour 24 hour		⑧ Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____		EDD (circle if required) Locus EIM (default) Other _____		Relinquished by Commercial Carrier UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		Temperature Upon Receipt <u>0.6 - 3.5°C</u>		Custody Seals Intact? <u>Yes</u> No																																																
WS-014 (1.5-2.0) 080513	8/5/13	0820	X			X					9	X	X	X	X	X																																										
WS-014 (5.5-6.0) 080513	8/5/13	0830	X			X					9	X	X	X	X	X																																										
WS-012 (1.5-2.0) 080513	8/5/13	0840	X			X					9	X	X	X	X	X																																										
WS-012 (5.0-5.5) 080513	8/5/13	0850	X			X					9	X	X	X	X	X																																										
WS-016 (1.5-2.0) 080513	8/5/13	0910	X			X					9	X	X	X	X	X																																										
WS-010 (3.5-4.0) 080513	8/5/13	0920	X			X					9	X	X	X	X	X																																										
WS-006 (0.5-1.0) 080513	8/5/13	0930	X			X					9	X	X	X	X	X																																										
WS-006 (0.5-1.0) 080513 MS/MSD	8/5/13	0930	X			X					18	X	X	X	X	X																																										
WS-005 (SURFACE) 080513	8/5/13	0950	X			X					9	X	X	X	X	X																																										
WS-011 (1.5-2.0) 080513	8/5/13	1020	X			X					9	X	X	X	X	X																																										
WS-011 (5.0-5.5) 080513	8/5/13	1030	X			X					9	X	X	X	X	X																																										
WS-003 (SURFACE) 080513	8/5/13	1040	X			X					9	X	X	X	X	X																																										

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only

Group # 1409302

Sample # 7151090-108

202

Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested										SCR#:																									
Facility #/SID MAYFLOWER PIPELINE INCIDENT			Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/>	Ground <input type="checkbox"/> Surface <input checked="" type="checkbox"/>	Air <input type="checkbox"/>	Preservation Code										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																									
Site Address MAYFLOWER, AR.						<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">H</td> <td style="width: 10%; text-align: center;">N</td> <td style="width: 10%; text-align: center;">H</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table>												H	N	H											X	X	X	X	X	X	X	X	X	X	X
H	N	H																																							
X	X	X														X	X	X	X	X	X	X	X	X	X																
ExxonMobil PM SCOTT BUSHROE			Total # of Containers																																						
Cost Center/AFE			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">VOL'S 8260 B</td> <td style="width: 10%;">PAH'S 8270 SIM</td> <td style="width: 10%;">PCRA Metals + Ni, V, Cr, Pb</td> <td style="width: 10%;">DISS Metals</td> <td style="width: 10%;">FEM OIL & GEMPS</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> </table>										VOL'S 8260 B	PAH'S 8270 SIM	PCRA Metals + Ni, V, Cr, Pb	DISS Metals	FEM OIL & GEMPS																								
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Consultant/Office ARCADIS													6 Remarks 																												
Consultant PM STEVE BARRICK																																									
Consultant Phone # 919 202 6799			3		Grab Composite Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/>																																				
Sampler J WALDRON / J MCCOMAS																																									
2 Sample Identification			Collected		Grab	Composite																																			
			Date	Time																																					
WS-018 (SURFACE) 080512			8/5/13	1110	X		X		9	X	X	X	X	X																											
WS-002 (SURFACE) 080513			8/5/13	1130	X		X		9	X	X	X	X	X																											
WS-007 (0.5-1.0) 080513			8/5/13	1140	X		X		9	X	X	X	X	X																											
WS-001 (0.5-1.0) 080513			8/5/13	1200	X		X		9	X	X	X	X	X																											
WS-TB-116-080513			8/5/13	---	X		X		2	X																															
WS-EB-21-080513			8/5/13	1400	X		X		7	X	X	X	X																												

7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour 24 hour	Relinquished by		Date	Time	Received by	Date	Time
			8/5/13	16:30			
8 Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____	EDD (circle if required) Locus EIM (default) Other _____	Relinquished by Commercial Carrier		Received by		Date	Time
		UPS <input checked="" type="checkbox"/> FedEx _____ Other _____				8/6/13	0930
		Temperature Upon Receipt 0.6 - 35 °C		Custody Seals Intact? <input checked="" type="checkbox"/> Yes No			

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

Environmental Sample Administration 1409302
Receipt Documentation Log

Client/Project: Mayflower
Date of Receipt: 8/6/13
Time of Receipt: 0930
Source Code: 60-1

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

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

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT146	0.8	TB	WI	Y	B	
2	↓	0.6	↓	↓	↓	↓	
3		1.5					
4		3.5					
5		1.2					
6		1.9					

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: C. Esler 3647 Date/Time: 8/6/13 1020

Environmental Sample Administration *1409302*
Receipt Documentation Log

Client/Project: Mayflower
Date of Receipt: 8/6/13
Time of Receipt: 0930
Source Code: 60-1

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

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT146	0.7	TB	WI	Y	B	
2							
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: *CE* 3647 Date/Time: 8/6/13 1020

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

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

Inorganic Qualifiers

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

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

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

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

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

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