

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

August 07, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 07/31/2013
Group Number: 1407997
SDG: PEJ76
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)073013 Filt Grab Surface Water	7145087
WS-014(5.5-6.0)073013 Filt Grab Surface Water	7145088
WS-012(1.5-2.0)073013 Filt Grab Surface Water	7145089
WS-012(5.0-5.5)073013 Filt Grab Surface Water	7145090
WS-010(1.5-2.0)073013 Filt Grab Surface Water	7145091
WS-010(3.5-4.0)073013 Filt Grab Surface Water	7145092
WS-005(Surface)073013 Filt Grab Surface Water	7145093
WS-011(1.5-2.0)073013 Filt Grab Surface Water	7145094
WS-011(5.0-5.5)073013 Filt Grab Surface Water	7145095
WS-003(Surface)073013 Filt Grab Surface Water	7145096
WS-018(Surface)073013 Filt Grab Surface Water	7145097
WS-002(Surface)073013 Filt Grab Surface Water	7145098
WS-007(0.5-1.0)073013 Filt Grab Surface Water	7145099
WS-006(0.5-1.0)073013 Filt Grab Surface Water	7145100
WS-006(0.5-1.0)073013MS Filt Grab Surface Water	7145101
WS-006(0.5-1.0)073013MSD Filt Grab Surface Water	7145102
WS-006(0.5-1.0)073013DUP Filt Grab Surface Water	7145103
WS-001-(0.5-1.0)073013 Filt Grab Surface Water	7145104
WS-EB-15-073013 Filt Grab Water	7145105

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

ELECTRONIC ARCADIS
COPY TO
ELECTRONIC ARCADIS
COPY TO

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 #: 1407997

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)073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145087
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 08:10 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/31/2013 09:10

PO Box 4416

Reported: 08/07/2013 08:04

Houston TX 77210-4416

F0141 SDG#: PEJ76-01

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	0.0150	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	132121848003	08/06/2013 15:46	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 15:46	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 15:46	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 15:46	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 15:46	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 15:46	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 15:46	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 15:46	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 15:46	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

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Sample Description: WS-014(5.5-6.0)073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145088
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 08:20 by JW

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

Submitted: 07/31/2013 09:10

Reported: 08/07/2013 08:04

F0142 SDG#: PEJ76-02

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	0.0151	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	132121848003	08/06/2013 15:50	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 15:50	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 15:50	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 15:50	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 15:50	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 15:50	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 15:50	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 15:50	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 15:50	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	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)073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145089
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 08:30 by JW

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

Submitted: 07/31/2013 09:10

Reported: 08/07/2013 08:04

F0121 SDG#: PEJ76-03

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	0.0117	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132121848003	08/06/2013 16:01	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 16:01	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 16:01	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 16:01	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 16:01	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 16:01	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 16:01	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 16:01	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 16:01	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

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Sample Description: WS-012(5.0-5.5)073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145090
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 08:40 by JW ExxonMobil
Mobil Pipeline Company
Submitted: 07/31/2013 09:10 PO Box 4416
Reported: 08/07/2013 08:04 Houston TX 77210-4416

F0122 SDG#: PEJ76-04

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	0.0123	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	132121848003	08/06/2013 16:05	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 16:05	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 16:05	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 16:05	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 16:05	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 16:05	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 16:05	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 16:05	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 16:05	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145091
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 09:00 by JW

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

Submitted: 07/31/2013 09:10

Reported: 08/07/2013 08:04

F0101 SDG#: PEJ76-05

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	0.0140	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	132121848003	08/06/2013 16:09	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 16:09	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 16:09	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 16:09	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 16:09	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 16:09	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 16:09	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 16:09	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 16:09	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145092
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 09:10 by JW ExxonMobil
Mobil Pipeline Company
Submitted: 07/31/2013 09:10 PO Box 4416
Reported: 08/07/2013 08:04 Houston TX 77210-4416

F0102 SDG#: PEJ76-06

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	0.0143	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	132121848003	08/06/2013 16:13	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 16:13	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 16:13	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 16:13	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 16:13	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 16:13	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 16:13	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 16:13	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 16:13	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

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Sample Description: WS-005 (Surface) 073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145093
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 10:00 by JW ExxonMobil
Mobil Pipeline Company
Submitted: 07/31/2013 09:10 PO Box 4416
Reported: 08/07/2013 08:04 Houston TX 77210-4416

F0005 SDG#: PEJ76-07

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	0.0208	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	132121848003	08/06/2013 16:17	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 16:17	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 16:17	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 16:17	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 16:17	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 16:17	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 16:17	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 16:17	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 16:17	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

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Sample Description: WS-011(1.5-2.0)073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145094
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 10:30 by JW

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

Submitted: 07/31/2013 09:10

Reported: 08/07/2013 08:04

F0111 SDG#: PEJ76-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0127	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	132121848003	08/06/2013 16:20	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 16:20	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 16:20	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 16:20	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 16:20	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 16:20	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 16:20	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 16:20	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 16:20	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145095
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 10:40 by JW ExxonMobil
Mobil Pipeline Company
Submitted: 07/31/2013 09:10 PO Box 4416
Reported: 08/07/2013 08:04 Houston TX 77210-4416

F0112 SDG#: PEJ76-09

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	0.0135	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	132121848003	08/06/2013 16:24	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 16:24	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 16:24	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 16:24	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 16:24	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 16:24	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 16:24	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 16:24	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 16:24	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

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Sample Description: WS-003 (Surface) 073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145096
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 11:00 by JW ExxonMobil
Mobil Pipeline Company
Submitted: 07/31/2013 09:10 PO Box 4416
Reported: 08/07/2013 08:04 Houston TX 77210-4416

F0003 SDG#: PEJ76-10

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	0.0156	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	132121848003	08/06/2013 16:28	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 16:28	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 16:28	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 16:28	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 16:28	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 16:28	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 16:28	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 16:28	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 16:28	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:22	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-018 (Surface) 073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145097
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 11:10 by JW ExxonMobil
Mobil Pipeline Company
Submitted: 07/31/2013 09:10 PO Box 4416
Reported: 08/07/2013 08:04 Houston TX 77210-4416

F0018 SDG#: PEJ76-11

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

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132121848003	08/06/2013 16:32	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 16:32	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 16:32	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 16:32	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 16:32	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 16:32	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 16:32	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 16:32	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 16:32	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-002 (Surface) 073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145098
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 11:50 by JW ExxonMobil
Mobil Pipeline Company
Submitted: 07/31/2013 09:10 PO Box 4416
Reported: 08/07/2013 08:04 Houston TX 77210-4416

F0002 SDG#: PEJ76-12

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	0.0152	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	132121848003	08/06/2013 16:36	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 16:36	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 16:36	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 16:36	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 16:36	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 16:36	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 16:36	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 16:36	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 16:36	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

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Sample Description: WS-007(0.5-1.0)073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145099
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 12:00 by JW

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

Submitted: 07/31/2013 09:10

Reported: 08/07/2013 08:04

F0007 SDG#: PEJ76-13

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	0.0236	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	0.0016 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 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	132121848003	08/06/2013 16:47	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 16:47	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 16:47	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 16:47	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 16:47	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 16:47	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 16:47	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 16:47	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 16:47	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

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Sample Description: WS-006(0.5-1.0)073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145100
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 12:20 by JW

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

Submitted: 07/31/2013 09:10

Reported: 08/07/2013 08:04

F0006 SDG#: PEJ76-14BKG

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	132121848003	08/06/2013 15:23	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 15:23	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 15:23	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 15:23	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 15:23	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 15:23	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 15:23	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 15:23	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 15:23	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)073013MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145101
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 12:20 by JW

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

Submitted: 07/31/2013 09:10

Reported: 08/07/2013 08:04

F0006 SDG#: PEJ76-14MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.154	0.0068	0.0200	1
07046	Barium	7440-39-3	2.05	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0517	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.206	0.0016	0.0150	1
07055	Lead	7439-92-1	0.156	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.532	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.147	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0487	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.499	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0011	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132121848003	08/06/2013 15:34	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 15:34	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 15:34	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 15:34	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 15:34	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 15:34	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 15:34	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 15:34	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 15:34	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)073013MSD Filtr Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145102
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 12:20 by JW

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

Submitted: 07/31/2013 09:10

Reported: 08/07/2013 08:04

F0006 SDG#: PEJ76-14MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.151	0.0068	0.0200	1
07046	Barium	7440-39-3	2.05	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0510	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.204	0.0016	0.0150	1
07055	Lead	7439-92-1	0.154	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.529	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.148	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0488	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.497	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0011	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132121848003	08/06/2013 15:38	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 15:38	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 15:38	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 15:38	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 15:38	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 15:38	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 15:38	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 15:38	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 15:38	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)073013DUP Filtr Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145103
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 12:20 by JW

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

Submitted: 07/31/2013 09:10

Reported: 08/07/2013 08:04

F0006 SDG#: PEJ76-14DUP

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

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132121848003	08/06/2013 15:31	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 15:31	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 15:31	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 15:31	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 15:31	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 15:31	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 15:31	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 15:31	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 15:31	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-001-(0.5-1.0)073013 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7145104
LL Group # 1407997
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/30/2013 13:00 by JW

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

Submitted: 07/31/2013 09:10

Reported: 08/07/2013 08:04

F0001 SDG#: PEJ76-15

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	0.0168	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	132121848003	08/06/2013 16:51	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 16:51	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 16:51	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 16:51	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 16:51	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 16:51	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 16:51	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 16:51	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 16:51	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

Sample Description: **WS-EB-15-073013 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7145105**
 LL Group # **1407997**
 Account # **14739**

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

Collected: 07/30/2013 13:30 by JW

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

Submitted: 07/31/2013 09:10

Reported: 08/07/2013 08:04

F0E15 SDG#: PEJ76-16EB*

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	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 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	132121848003	08/06/2013 16:55	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132121848003	08/06/2013 16:55	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132121848003	08/06/2013 16:55	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132121848003	08/06/2013 16:55	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132121848003	08/06/2013 16:55	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132121848003	08/06/2013 16:55	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132121848003	08/06/2013 16:55	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132121848003	08/06/2013 16:55	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132121848003	08/06/2013 16:55	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132125713002	08/02/2013 05:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132121848003	07/31/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132125713002	08/01/2013 16:00	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 08/07/13 at 08:04 AM

Group Number: 1407997

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: 132121848003	Sample number(s): 7145087-7145105								
Arsenic	N.D.	0.0068	0.0200	mg/l	101		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	102		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	102		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	102		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	105		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	106		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	98		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	97		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	99		90-110		
Batch number: 132125713002	Sample number(s): 7145087-7145105								
Mercury	N.D.	0.00006	0.00020	mg/l	108		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: 132121848003	Sample number(s): 7145087-7145105 UNSPK: 7145100 BKG: 7145100								
Arsenic	103	101	81-123	2	20	N.D.	N.D.	0 (1)	20
Barium	102	102	78-118	0	20	0.0163	0.0159	2 (1)	20
Cadmium	103	102	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	103	102	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	104	102	75-125	2	20	N.D.	N.D.	0 (1)	20
Nickel	106	106	86-115	1	20	N.D.	N.D.	0 (1)	20
Selenium	98	98	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	97	98	75-125	0	20	N.D.	N.D.	0 (1)	20
Vanadium	100	99	90-111	0	20	N.D.	N.D.	0 (1)	20
Batch number: 132125713002	Sample number(s): 7145087-7145105 UNSPK: 7145100 BKG: 7145100								
Mercury	108	106	80-120	2	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

For Lancaster Laboratories use only
 Acct. # 14739 Group # 1407997 Sample # 7145087-105
Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information				4 Matrix				5 Analyses Requested								SCR#: _____																																																																																																																																																																																																		
Facility #/SID <u>Mayflower Pipeline Incident</u>				Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/>				Preservation Code								6 Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																																																																																																																																																																																		
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ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 14739

For Lancaster Laboratories use only
 Group # 1407997 Sample # 7145087-105
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 Incident</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Oil <input type="checkbox"/> Air				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>								<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">H</td> <td style="width: 20%;">N</td> <td style="width: 20%;">H</td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> <tr> <td style="text-align: center;">VOCs B260B</td> <td style="text-align: center;">PAHs B270 SIM</td> <td style="text-align: center;">PCRA Metals V.Ni,Co,Mn</td> <td style="text-align: center;">Diss Metals</td> <td style="text-align: center;">HEM O.I. Grease</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="14" style="text-align: center; font-size: small;">Total # of Containers</td> </tr> </table>										H	N	H												VOCs B260B	PAHs B270 SIM	PCRA Metals V.Ni,Co,Mn	Diss Metals	HEM O.I. Grease										Total # of Containers													
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<u>WS-006(0.5-1.0)073013</u>		<u>7/30/13</u>	<u>1220</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																												
<u>WS-006(0.5-1.0)073013 MS/MSD</u>		<u>7/30/13</u>	<u>1220</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MS/MSD																																											
<u>WS-001(0.5-1.0)073013</u>		<u>7/30/13</u>	<u>1300</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																												
<u>WS-EB-15-073013</u>		<u>7/30/13</u>	<u>1330</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																												
<u>WS-TB-110-073013</u>		<u>7/30/13</u>	<u>---</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																												
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Environmental Sample Administration 1407997
Receipt Documentation Log

Client/Project: XOM Mayflower
Date of Receipt: 7/31/13
Time of Receipt: 0910
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	0.8	TB	WI	Y	B	
2		0.7					
3		0.8					
4		0.5					
5		2.3					
6	↓	4.0	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:
1 O+G bottle rec'd broken for WS-001 -Gr.1407996

Unpacker Signature/Emp#: Daneshund /208 Date/Time: 7/31/13 /0945

Environmental Sample Administration 1407997
 Receipt Documentation Log

Client/Project: XOM Mayflower

Shipping Container Sealed: YES NO

Date of Receipt: 7/31/13

Custody Seal Present * : YES NO

Time of Receipt: 0910

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

Source Code: SO-1

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
1x	DT121	4.2	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#: Daneslund/208

Date/Time: 7/31/13/0945

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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