

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

August 22, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 08/15/2013

Group Number: 1411676

SDG: PEK64

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LL)

WS-005(Surface)081313 Filt Grab Surface Water	7161982
WS-002(Surface)081313 Filt Grab Surface Water	7161983
WS-018(Surface)081313 Filt Grab Surface Water	7161984
WS-003(Surface)081313 Filt Grab Surface Water	7161985
WS-007(0.5-1.0)081313 Filt Grab Surface Water	7161986
WS-001(0.5-1.0)081313 Filt Grab Surface Water	7161987
WS-BKG-002(Surface)081313 Filt Grab Surface Water	7161988
WS-008(Surface)081313 Filt Grab Surface Water	7161989
WS-010(1.5-2.0)081413 Filt Grab Surface Water	7161990
WS-010(3.5-4.0)081413 Filt Grab Surface Water	7161991
WS-014(1.5-2.0)081413 Filt Grab Surface Water	7161992
WS-014(5.5-6.0)081413 Filt Grab Surface Water	7161993
WS-012(1.5-2.0)081413 Filt Grab Surface Water	7161994
WS-012(5.5-6.0)081413 Filt Grab Surface Water	7161995
WS-006(0.5-1.0)081413 Filt Grab Surface Water	7161996
WS-006(0.5-1.0)081413MS Filt Grab Surface Water	7161997
WS-006(0.5-1.0)081413MSD Filt Grab Surface Water	7161998
WS-006(0.5-1.0)081413DUP Filt Grab Surface Water	7161999
WS-005(Surface)081413 Filt Grab Surface Water	7162000
WS-002(Surface)081413 Filt Grab Surface Water	7162001
WS-018(Surface)081413 Filt Grab Surface Water	7162002
WS-011(1.5-2.0)081413 Filt Grab Surface Water	7162003
WS-011(5.0-5.5)081413 Filt Grab Surface Water	7162004
WS-007(0.5-1.0)081413 Filt Grab Surface Water	7162005
WS-003(Surface)081413 Filt Grab Surface Water	7162006
WS-001(0.5-1.0)081413 Filt Grab Surface Water	7162007
WS-008(Surface)081413 Filt Grab Surface Water	7162008
WS-BKG-002(Surface)081413 Filt Grab Surface Water	7162009
WS-EB-29-081413 Filt Grab Water	7162010

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

ELECTRONIC COPY TO	ARCADIS	Attn: Stephen Barrick
ELECTRONIC COPY TO	ARCADIS	Attn: Lyndi Mott
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael J. Firth
ELECTRONIC COPY TO	ARCADIS	Attn: Emily Leamer
ELECTRONIC COPY TO	ARCADIS	Attn: Rhiannon Parmalee
ELECTRONIC COPY TO	ARCADIS	Attn: Jamie Pritchard
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael L Sixsmith
ELECTRONIC COPY TO	ExxonMobil	Attn: Julie Foster
ELECTRONIC COPY TO	ExxonMobil	Attn: Carl Wideman

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1411676

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.

REVISED

Sample Description: WS-005(Surface)081313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161982
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/13/2013 14:30 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M5S3F SDG#: PEK64-01

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	132281848002	08/19/2013 09:04	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 09:04	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 09:04	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 09:04	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 09:04	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 09:04	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 09:04	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 09:04	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 09:04	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-002(Surface)081313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161983
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/13/2013 14:50 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M7S3F SDG#: PEK64-02

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	0.0214	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	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	132281848002	08/19/2013 09:08	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 09:08	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 09:08	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 09:08	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 09:08	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 09:08	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 09:08	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 09:08	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 09:08	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:22	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-018(Surface)081313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161984
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/13/2013 15:00 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M183F SDG#: PEK64-03

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	0.0234	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	132281848002	08/19/2013 09:20	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 09:20	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 09:20	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 09:20	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 09:20	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 09:20	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 09:20	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 09:20	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 09:20	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-003(Surface)081313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161985
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/13/2013 15:10 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M3S3F SDG#: PEK64-04

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	0.0283	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	132281848002	08/19/2013 09:24	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 09:24	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 09:24	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 09:24	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 09:24	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 09:24	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 09:24	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 09:24	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 09:24	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-007(0.5-1.0)081313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161986
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/13/2013 15:20 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M703F SDG#: PEK64-05

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	0.0206	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.0017 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 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	132281848002	08/19/2013 09:27	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 09:27	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 09:27	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 09:27	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 09:27	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 09:27	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 09:27	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 09:27	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 09:27	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-001(0.5-1.0)081313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161987
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/13/2013 15:30 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M103F SDG#: PEK64-06

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	0.0154	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	132281848002	08/19/2013 09:31	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 09:31	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 09:31	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 09:31	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 09:31	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 09:31	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 09:31	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 09:31	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 09:31	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-BKG-002(Surface)081313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161988
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/13/2013 15:50 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

MB23F SDG#: PEK64-07

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	0.0216	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	0.0026 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	132281848002	08/19/2013 09:35	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 09:35	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 09:35	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 09:35	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 09:35	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 09:35	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 09:35	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 09:35	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 09:35	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-008(Surface)081313 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161989
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/13/2013 16:00 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M8S3F SDG#: PEK64-08

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	0.0221	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.0043 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	132281848002	08/19/2013 09:39	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 09:39	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 09:39	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 09:39	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 09:39	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 09:39	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 09:39	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 09:39	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 09:39	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-010(1.5-2.0)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161990
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 09:00 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

1014F SDG#: PEK64-09

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	0.0128	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	132281848002	08/19/2013 09:43	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 09:43	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 09:43	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 09:43	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 09:43	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 09:43	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 09:43	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 09:43	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 09:43	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-010(3.5-4.0)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161991
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 09:10 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

1034F SDG#: PEK64-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	SW-846 6010B 7440-38-2	mg/l N.D.	mg/l 0.0068	mg/l 0.0200	1
07046	Barium	7440-39-3	0.0123	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						
00259	Mercury	7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132281848002	08/19/2013 09:47	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 09:47	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 09:47	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 09:47	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 09:47	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 09:47	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 09:47	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 09:47	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 09:47	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-014(1.5-2.0)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161992
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 08:20 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

1414F SDG#: PEK64-11

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	132281848002	08/19/2013 09:51	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 09:51	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 09:51	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 09:51	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 09:51	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 09:51	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 09:51	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 09:51	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 09:51	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-014(5.5-6.0)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161993
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 08:30 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

1454F SDG#: PEK64-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	SW-846 6010B 7440-38-2	mg/l N.D.	mg/l 0.0068	mg/l 0.0200	1
07046	Barium	7440-39-3	0.0192	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
SW-846 7470A						
00259	Mercury	7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132281848002	08/19/2013 09:54	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 09:54	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 09:54	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 09:54	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 09:54	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 09:54	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 09:54	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 09:54	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 09:54	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-012(1.5-2.0)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161994
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 08:40 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

1214F SDG#: PEK64-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	SW-846 6010B 7440-38-2	mg/l N.D.	mg/l 0.0068	mg/l 0.0200	1
07046	Barium	7440-39-3	0.0136	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
SW-846 7470A						
00259	Mercury	7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132281848002	08/19/2013 10:06	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 10:06	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 10:06	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 10:06	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 10:06	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 10:06	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 10:06	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 10:06	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 10:06	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-012(5.5-6.0)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161995
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 08:50 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

1254F SDG#: PEK64-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0154	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
SW-846 6010B						
SW-846 7470A						
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132281848002	08/19/2013 10:10	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 10:10	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 10:10	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 10:10	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 10:10	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 10:10	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 10:10	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 10:10	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 10:10	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-006(0.5-1.0)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161996
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 09:30 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M604F SDG#: PEK64-15BKG

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	132281848002	08/19/2013 08:41	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 08:41	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 08:41	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 08:41	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 08:41	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 08:41	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 08:41	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 08:41	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 08:41	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-006(0.5-1.0)081413MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161997
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 09:30 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M604F SDG#: PEK64-15MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	7440-38-2	mg/l	mg/l	mg/l	
07046	Barium	7440-39-3	0.151	0.0068	0.0200	1
07049	Cadmium	7440-43-9	1.98	0.00033	0.0050	1
07051	Chromium	7440-47-3	0.0502	0.00076	0.0050	1
07055	Lead	7439-92-1	0.202	0.0016	0.0150	1
07061	Nickel	7440-02-0	0.149	0.0047	0.0150	1
07036	Selenium	7440-02-0	0.506	0.0015	0.0100	1
07066	Silver	7782-49-2	0.147	0.0084	0.0200	1
07071	Vanadium	7440-22-4	0.0548	0.0021	0.0050	1
		7440-62-2	0.514	0.0020	0.0050	1
SW-846 7470A						
00259	Mercury	7439-97-6	mg/l	mg/l	mg/l	
			0.0010	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132281848002	08/19/2013 08:53	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 08:53	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 08:53	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 08:53	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 08:53	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 08:53	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 08:53	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 08:53	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 08:53	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 08:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-006 (0.5-1.0) 081413MSD Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161998
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 09:30 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M604F SDG#: PEK64-15MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	7440-38-2	0.152	0.0068	0.0200	1
07046	Barium	7440-39-3	1.97	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0507	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.200	0.0016	0.0150	1
07055	Lead	7439-92-1	0.147	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.506	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.149	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0542	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.510	0.0020	0.0050	1
SW-846 6010B						
00259	Mercury	7439-97-6	0.00097	0.000060	0.00020	1
SW-846 7470A						

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	132281848002	08/19/2013 08:57	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 08:57	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 08:57	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 08:57	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 08:57	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 08:57	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 08:57	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 08:57	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 08:57	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 08:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-006(0.5-1.0)081413DUP Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7161999
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 09:30 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M604F SDG#: PEK64-15DUP

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	132281848002	08/19/2013 08:49	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 08:49	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 08:49	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 08:49	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 08:49	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 08:49	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 08:49	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 08:49	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 08:49	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 07:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-005(Surface)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7162000
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 09:50 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M5S4F SDG#: PEK64-16

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	0.0172	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	132281848002	08/19/2013 10:14	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 10:14	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 10:14	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 10:14	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 10:14	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 10:14	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 10:14	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 10:14	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 10:14	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 08:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-002(Surface)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7162001
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 10:10 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M2S4F SDG#: PEK64-17

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	0.0162	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	132281848002	08/19/2013 10:17	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 10:17	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 10:17	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 10:17	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 10:17	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 10:17	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 10:17	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 10:17	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 10:17	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 08:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-018(Surface)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7162002
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 10:30 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M184F SDG#: PEK64-18

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	0.0251	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	132281848002	08/19/2013 10:21	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 10:21	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 10:21	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 10:21	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 10:21	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 10:21	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 10:21	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 10:21	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 10:21	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 08:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-011(1.5-2.0)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7162003
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 10:40 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

1114F SDG#: PEK64-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	SW-846 6010B 7440-38-2	mg/l N.D.	mg/l 0.0068	mg/l 0.0200	1
07046	Barium	7440-39-3	0.0152	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 7470A						
00259	Mercury	7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132281848002	08/19/2013 10:25	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 10:25	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 10:25	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 10:25	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 10:25	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 10:25	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 10:25	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 10:25	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 10:25	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 08:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-011(5.0-5.5)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7162004
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 10:50 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

1154F SDG#: PEK64-20

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	0.0158	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	132281848002	08/19/2013 10:29	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132281848002	08/19/2013 10:29	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132281848002	08/19/2013 10:29	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132281848002	08/19/2013 10:29	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132281848002	08/19/2013 10:29	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848002	08/19/2013 10:29	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132281848002	08/19/2013 10:29	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132281848002	08/19/2013 10:29	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132281848002	08/19/2013 10:29	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132315713001	08/21/2013 08:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848002	08/18/2013 11:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713001	08/20/2013 08:45	Damary Valentin	1

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

REVISED

Sample Description: WS-007(0.5-1.0)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7162005
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 11:20 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M704F SDG#: PEK64-21

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	0.0230	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.0017 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 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	2	132281848004	08/22/2013 06:54	Deborah A Krady	1
07046	Barium	SW-846 6010B	1	132281848004	08/22/2013 06:54	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	2	132281848004	08/22/2013 06:54	Deborah A Krady	1
07051	Chromium	SW-846 6010B	2	132281848004	08/22/2013 06:54	Deborah A Krady	1
07055	Lead	SW-846 6010B	1	132281848004	08/22/2013 09:37	Eric L Eby	1
07061	Nickel	SW-846 6010B	2	132281848004	08/22/2013 06:54	Deborah A Krady	1
07036	Selenium	SW-846 6010B	2	132281848004	08/22/2013 09:37	Eric L Eby	1
07066	Silver	SW-846 6010B	2	132281848004	08/22/2013 09:37	Eric L Eby	1
07071	Vanadium	SW-846 6010B	2	132281848004	08/22/2013 06:54	Deborah A Krady	1
00259	Mercury	SW-846 7470A	1	132285713004	08/20/2013 01:48	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848004	08/18/2013 12:12	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132285713004	08/19/2013 11:40	Katlin N Cataldi	1

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

REVISED

Sample Description: WS-003(Surface)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7162006
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 11:00 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M3S4F SDG#: PEK64-22

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	SW-846 6010B 7440-38-2	mg/l N.D.	mg/l 0.0068	mg/l 0.0200	1
07046	Barium	7440-39-3	0.0158	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
SW-846 7470A						
00259	Mercury	7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	2	132281848004	08/22/2013 06:58	Deborah A Krady	1
07046	Barium	SW-846 6010B	1	132281848004	08/22/2013 06:58	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	2	132281848004	08/22/2013 06:58	Deborah A Krady	1
07051	Chromium	SW-846 6010B	2	132281848004	08/22/2013 06:58	Deborah A Krady	1
07055	Lead	SW-846 6010B	1	132281848004	08/22/2013 09:41	Eric L Eby	1
07061	Nickel	SW-846 6010B	2	132281848004	08/22/2013 06:58	Deborah A Krady	1
07036	Selenium	SW-846 6010B	2	132281848004	08/22/2013 09:41	Eric L Eby	1
07066	Silver	SW-846 6010B	2	132281848004	08/22/2013 09:41	Eric L Eby	1
07071	Vanadium	SW-846 6010B	2	132281848004	08/22/2013 06:58	Deborah A Krady	1
00259	Mercury	SW-846 7470A	1	132285713004	08/20/2013 01:56	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848004	08/18/2013 12:12	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132285713004	08/19/2013 11:40	Katlin N Cataldi	1

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

REVISED

Sample Description: WS-001(0.5-1.0)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7162007
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 11:30 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M104F SDG#: PEK64-23

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	SW-846 6010B 7440-38-2	mg/l N.D.	mg/l 0.0068	mg/l 0.0200	1
07046	Barium	7440-39-3	0.0151	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						
00259	Mercury	7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	2	132281848004	08/22/2013 07:09	Deborah A Krady	1
07046	Barium	SW-846 6010B	1	132281848004	08/22/2013 07:09	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	2	132281848004	08/22/2013 07:09	Deborah A Krady	1
07051	Chromium	SW-846 6010B	2	132281848004	08/22/2013 07:09	Deborah A Krady	1
07055	Lead	SW-846 6010B	1	132281848004	08/22/2013 09:52	Eric L Eby	1
07061	Nickel	SW-846 6010B	2	132281848004	08/22/2013 07:09	Deborah A Krady	1
07036	Selenium	SW-846 6010B	2	132281848004	08/22/2013 09:52	Eric L Eby	1
07066	Silver	SW-846 6010B	2	132281848004	08/22/2013 09:52	Eric L Eby	1
07071	Vanadium	SW-846 6010B	2	132281848004	08/22/2013 07:09	Deborah A Krady	1
00259	Mercury	SW-846 7470A	1	132285713004	08/20/2013 01:58	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848004	08/18/2013 12:12	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132285713004	08/19/2013 11:40	Katlin N Cataldi	1

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

REVISED

Sample Description: WS-008(Surface)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7162008
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 11:50 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

M8S4F SDG#: PEK64-24

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	0.0219	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	0.0037 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	2	132281848004	08/22/2013 06:31	Deborah A Krady	1
07046	Barium	SW-846 6010B	1	132281848004	08/22/2013 06:31	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	2	132281848004	08/22/2013 06:31	Deborah A Krady	1
07051	Chromium	SW-846 6010B	2	132281848004	08/22/2013 06:31	Deborah A Krady	1
07055	Lead	SW-846 6010B	1	132281848004	08/22/2013 09:14	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848004	08/22/2013 06:31	Deborah A Krady	1
07036	Selenium	SW-846 6010B	2	132281848004	08/22/2013 09:14	Eric L Eby	1
07066	Silver	SW-846 6010B	2	132281848004	08/22/2013 09:14	Eric L Eby	1
07071	Vanadium	SW-846 6010B	2	132281848004	08/22/2013 06:31	Deborah A Krady	1
00259	Mercury	SW-846 7470A	1	132285713004	08/20/2013 02:00	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848004	08/18/2013 12:12	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132285713004	08/19/2013 11:40	Katlin N Cataldi	1

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

REVISED

Sample Description: WS-BKG-002(Surface)081413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7162009
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 12:10 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

MB24F SDG#: PEK64-25

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	SW-846 6010B 7440-38-2	mg/l N.D.	mg/l 0.0068	mg/l 0.0200	1
07046	Barium	7440-39-3	0.0236	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	0.0031 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						
00259	Mercury	7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	2	132281848004	08/22/2013 07:13	Deborah A Krady	1
07046	Barium	SW-846 6010B	1	132281848004	08/22/2013 07:13	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	2	132281848004	08/22/2013 07:13	Deborah A Krady	1
07051	Chromium	SW-846 6010B	2	132281848004	08/22/2013 07:13	Deborah A Krady	1
07055	Lead	SW-846 6010B	1	132281848004	08/22/2013 09:56	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132281848004	08/22/2013 07:13	Deborah A Krady	1
07036	Selenium	SW-846 6010B	2	132281848004	08/22/2013 09:56	Eric L Eby	1
07066	Silver	SW-846 6010B	2	132281848004	08/22/2013 09:56	Eric L Eby	1
07071	Vanadium	SW-846 6010B	2	132281848004	08/22/2013 07:13	Deborah A Krady	1
00259	Mercury	SW-846 7470A	1	132285713004	08/20/2013 02:02	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848004	08/18/2013 12:12	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132285713004	08/19/2013 11:40	Katlin N Cataldi	1

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

REVISED

Sample Description: WS-EB-29-081413 Filt Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7162010
LL Group # 1411676
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/14/2013 13:00 by ML

ExxonMobil c/o Arcadis
630 Plaza Drive, Suite 600
Highlands Ranch CO 80129

Submitted: 08/15/2013 09:08

Reported: 08/22/2013 12:13

ME29F SDG#: PEK64-26EB*

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	2	132281848004	08/22/2013 07:17	Deborah A Krady	1
07046	Barium	SW-846 6010B	2	132281848004	08/22/2013 07:17	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	2	132281848004	08/22/2013 07:17	Deborah A Krady	1
07051	Chromium	SW-846 6010B	2	132281848004	08/22/2013 07:17	Deborah A Krady	1
07055	Lead	SW-846 6010B	1	132281848004	08/22/2013 10:00	Eric L Eby	1
07061	Nickel	SW-846 6010B	2	132281848004	08/22/2013 07:17	Deborah A Krady	1
07036	Selenium	SW-846 6010B	2	132281848004	08/22/2013 10:00	Eric L Eby	1
07066	Silver	SW-846 6010B	2	132281848004	08/22/2013 10:00	Eric L Eby	1
07071	Vanadium	SW-846 6010B	2	132281848004	08/22/2013 07:17	Deborah A Krady	1
00259	Mercury	SW-846 7470A	1	132285713004	08/20/2013 02:04	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132281848004	08/18/2013 12:12	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132285713004	08/19/2013 11:40	Katlin N Cataldi	1

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 08/22/13 at 12:13 PM

Group Number: 1411676

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: 132281848002	Sample number(s): 7161982-7162004								
Arsenic	N.D.	0.0068	0.0200	mg/l	100		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	99		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	104		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	101		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	102		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	98		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	109		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	102		90-110		
Batch number: 132281848004	Sample number(s): 7162005-7162010								
Arsenic	N.D.	0.0068	0.0200	mg/l	101		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	105		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	105		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	107		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	108		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	102		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	97		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	102		90-110		
Batch number: 132285713004	Sample number(s): 7162005-7162010								
Mercury	N.D.	0.00006	0.00020	mg/l	104		80-120		
		0							
Batch number: 132315713001	Sample number(s): 7161982-7162004								
Mercury	N.D.	0.00006	0.00020	mg/l	106		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: 132281848002	Sample number(s): 7161982-7162004 UNSPK: 7161996 BKG: 7161996								
Arsenic	100	102	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	98	98	78-118	0	20	0.0137	0.0137	0 (1)	20
Cadmium	100	101	83-116	1	20	N.D.	N.D.	0 (1)	20

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis

Group Number: 1411676

Reported: 08/22/13 at 12:13 PM

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</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Chromium	101	100	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	99	98	75-125	2	20	N.D.	N.D.	0 (1)	20
Nickel	101	101	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	98	99	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	110	108	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	103	102	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132281848004 Sample number(s): 7162005-7162010 UNSPK: 7162008 BKG: 7162008									
Arsenic	99	101	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	103	103	78-118	0	20	0.0219	0.0217	1 (1)	20
Cadmium	103	104	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	101	101	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	104	106	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	106	106	86-115	0	20	0.0037 J	0.0040 J	6 (1)	20
Selenium	100	98	75-125	2	20	N.D.	N.D.	0 (1)	20
Silver	94	95	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	103	102	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132285713004 Sample number(s): 7162005-7162010 UNSPK: 7162005 BKG: 7162005									
Mercury	105	100	80-120	4	20	N.D.	N.D.	0 (1)	20
Batch number: 132315713001 Sample number(s): 7161982-7162004 UNSPK: 7161996 BKG: 7161996									
Mercury	104	97	80-120	7	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 # 1411676

Sample # 7161982-7162010

Instructions on reverse side correspond with circled numbers.

1 of 3

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks				
Facility #/SID <u>Mayflower, Pipeline Incident</u>				☐ Sediment ☐ Potable ☐ Water ☐ Soil ☐ Grab ☐ Composite ☐ Ground ☒ Surface ☐ NPDES ☐ Air ☐ Oil ☐ 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>								H N H																
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE						VOCs 8260 B PAHs 82705 IM DCRA Metals + N, V, Cu, Pb Diss Metals HEM Oil & Grease												Remarks Lab to filter & preserve diss metals upon receipt.				
Consultant/Office <u>Arcadis</u>		Consultant Phone # <u>919 222-6799</u>																						
Sampler <u>M. Long / H. Van Aller</u>																								
2 Sample Identification			3 Collected																					
			Date	Time	Grab	Composite																		
WS-005(surface) 081313	8/13/13	1430	X				X			9	X	X	X	X	X									
WS-002(surface) 081313		1450	X				X			9	X	X	X	X	X									
WS-018(surface) 081313		1500	X				X			9	X	X	X	X	X									
WS-003(surface) 081313		1510	X				X			9	X	X	X	X	X									
WS-007(0.5-1.0) 081313		1520	X				X			9	X	X	X	X	X									
WS-001(0.5-1.0) 081313		1530	X				X			9	X	X	X	X	X									
WS-BK6-002(surface) 081313		1550	X				X			9	X	X	X	X	X									
WS-008(surface) 081313	8/13/13	1600	X				X			9	X	X	X	X	X									
WS-010(1.5-2.0) 081413	8/14/13	900	X				X			9	X	X	X	X	X									
WS-010(3.5-4.0) 081413	8/14/13	910	X				X			9	X	X	X	X	X									
WS-014(1.5-2.0) 081413	8/14/13	820	X				X			9	X	X	X	X	X									
WS-014(5.5-6.0) 081413	8/14/13	830	X				X			9	X	X	X	X	X									

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by <u>H. Van Aller</u>		Date <u>8/14/13</u>	Time <u>1600</u>	Received by		Date	Time
Standard <u>5 day</u> 4 day										
72 hour 48 hour 24 hour										
			Relinquished by		Date	Time	Received by		Date	Time
			Relinquished by		Date	Time	Received by		Date	Time
			Relinquished by		Date	Time	Received by		Date	Time
8 Data Package (circle if required)			EDD (circle if required)		Relinquished by Commercial Carrier		Received by		Date	Time
Type I - Full			Locus EIM (default)		UPS <u>X</u> FedEx Other		<u>C. Sh...</u>		<u>8/15/13</u>	<u>0930</u>
Type VI (Raw Data)			Other							
NJ Reduced										
Other					Temperature Upon Receipt <u>0.3-2.0 C</u>		Custody Seals Intact?		<u>Yes</u>	No

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7053 0713

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only
Group # 1411676 Sample # 7161982-7162010
Instructions on reverse side correspond with circled numbers.

2 of 3

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks	
Facility #/SID <u>Mayflower Pipeline Incident</u>				☐ Sediment ☐ Potable ☐ Ground ☐ NPDES ☒ Surface ☐ Water ☐ Oil ☐ Air				Preservation Code H N H <u>UDS 8260 B</u> <u>PAHs 8270 SIM</u> <u>PCRA Metals + Ni, V, Cr, Mg</u> <u>Diss Metals</u> <u>HEM Oil & Grease</u>												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>								Cost Center/AFE <u>Sett Bushroe</u>		Consultant/Office <u>Arcadis</u>		Consultant Phone # <u>919 202-6799</u>		6							
Sampler <u>M. Long / H. Van Aller</u>				Total # of Containers <u>9</u>		7															
2 Sample Identification			3																		
			Grab	Composite																	
Collected																					
Date	Time																				
WS-012(1.5-2.0) 08/14/13	840	X		X	9	X	X	X	X	X											
WS-012(5.5-6.0) 08/14/13	850	X		X	9	X	X	X	X	X											
WS-006(2.5-1.0) 08/14/13	930	X		X	9	X	X	X	X	X											
WS-006(0.5-1.0) 08/14/13 MS/MSD	930	X		X	18	X	X	X	X	X							MS/MSD				
WS-005(Surface) 08/14/13	950	X		X	9	X	X	X	X	X											
WS-002(Surface) 08/14/13	1010	X		X	9	X	X	X	X	X											
WS-018(Surface) 08/14/13	1030	X		X	9	X	X	X	X	X											
WS-011(1.5-2.0) 08/14/13	1040	X		X	9	X	X	X	X	X											
WS-011(5.0-5.5) 08/14/13	1050	X		X	9	X	X	X	X	X											
WS-007(0.5-1.0) 08/14/13	1120	X		X	9	X	X	X	X	X											
WS-003(Surface) 08/14/13	1100	X		X	9	X	X	X	X	X											
WS-001(0.5-1.0) 08/14/13	1130	X		X	9	X	X	X	X	X											
7 Turnaround Time Requested (TAT) (please circle) Standard <u>5 day</u> 4 day 72 hour 48 hour 24 hour					Relinquished by <u>J. Van Aller</u>		Date <u>8/14/13</u>		Time <u>1600</u>		Received by <u>[Signature]</u>		Date <u>8/15/13</u>		Time <u>0930</u>						
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 <u>X</u> FedEx _____ Other _____		Temperature Upon Receipt <u>0.3-2.0 °C</u>		Custody Seals Intact? <u>Yes</u> No										

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7053 0713

Acct. # 14739

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Group # 1411676

Sample # 7161982-7162010

Instructions on reverse side correspond with circled numbers

SCR#:

3 of 3

[illegible]

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7053 0713

Rachel L. Kreamer

A# 14739

As# 1411676 Sample 7161982-2010

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Thursday, August 15, 2013 3:33 PM
To: Rachel L. Kreamer
Cc: Kathy Klinefelter; Van Aller, Hans
Subject: RE: Surface Water IDs

The EB should be WS-EB-29-081413.

The sample collected at 1050 should be WS-011(5.0-5.5).

Lyndi Mott

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

From: Rachel L. Kreamer [mailto:RKreamer@lanasterlabs.com]
Sent: Thursday, August 15, 2013 1:54 PM
To: Mott, Lyndi
Cc: Kathy Klinefelter
Subject: Surface Water IDs

Lyndi,

One more question about the surface waters. The labels for WS-EB-29-081413 say WS-EB-30-081413. Which ID should we use?

Also, the metals bottle for WS-011(5.0-5.5) is labeled WS-011(1.5-2.0). Collection time is 1050 and matches the chain.

Thanks
Rachel

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

From: 39Scanner@lanasterlabs.com [mailto:39Scanner@lanasterlabs.com]
Sent: Thursday, August 15, 2013 2:47 PM
To: Rachel L. Kreamer
Subject:

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

Scan Date: 08.15.2013 14:46:40 (-0400)
Queries to: 39Scanner@lanasterlabs.com

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Environmental Sample Administration

Receipt Documentation Log 1411676

Client/Project: MayflowerShipping Container Sealed: YES NODate of Receipt: 8/15/13Custody Seal Present *: YES NOTime of Receipt: 0930* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 60-1Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.0	TB	WI	Y	B	
2		0.5					
3		0.4					
4		2.6					
5		1.3					
6		1.0					

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

Paperwork Discrepancy/Unpacking Problems:

Gr. 1411675 { missing 1 ob for WS-002 @ 1450
received extra ob for WS-006-002 @ 1550

EB-29 labeled EB-30

KM2 8-15-13

metals bottle for WS-011(50-5.5) labeled WS-011(1.5-2.1)
time matched.Unpacker Signature/Emp#: CEhl 3647Date/Time: 8/15/13 1120

Issued by Dept. 6042 Management

2174.06

Environmental Sample Administration

Receipt Documentation Log 1411676

Client/Project: MugflowerShipping Container Sealed: YES NODate of Receipt: 8/15/13Custody Seal Present *: YES NOTime of Receipt: 0930

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

Source Code: 60-1Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	0.3	TB	WI	Y	B	
2	↓	0.4	↓	↓	↓	↓	
3	↓	0.4	↓	↓	↓	↓	
4	↓	0.7	↓	↓	↓	↓	
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: CEH 3647 Date/Time: 8/15/13 1120

Issued by Dept. 6042 Management

2174.06

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

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

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

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

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

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