

ANALYTICAL RESULTS

Prepared by:

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2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

September 13, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 09/09/2013

Group Number: 1417372

SDG: PEL32

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LL)

WS-014(1.5-2.0)090713 Filt Grab Surface Water	7190392
WS-014(5.5-6.0)090713 Filt Grab Surface Water	7190393
WS-012(1.5-2.0)090713 Filt Grab Surface Water	7190394
WS-012(5.0-5.5)090713 Filt Grab Surface Water	7190395
WS-010(1.5-2.0)090713 Filt Grab Surface Water	7190396
WS-010(3.5-4.0)090713 Filt Grab Surface Water	7190397
WS-006(0.5-1.0)090713 Filt Grab Surface Water	7190398
WS-006(0.5-1.0)090713MS Filt Grab Surface Water	7190399
WS-006(0.5-1.0)090713MSD Filt Grab Surface Water	7190400
WS-006(0.5-1.0)090713DUP Filt Grab Surface Water	7190401
WS-005(Surface)090713 Filt Grab Surface Water	7190402
WS-002(Surface)090713 Filt Grab Surface Water	7190403
WS-011(1.5-2.0)090713 Filt Grab Surface Water	7190404
WS-011(5.0-5.5)090713 Filt Grab Surface Water	7190405
WS-018(Surface)090713 Filt Grab Surface Water	7190406
WS-003(Surface)090713 Filt Grab Surface Water	7190407
WS-007(0.5-1.0)090713 Filt Grab Surface Water	7190408
WS-001(0.5-1.0)090713 Filt Grab Surface Water	7190409
WS-EB-54-090713 Filt Grab Water	7190410
WS-014(1.5-2.0)090813 Filt Grab Surface Water	7190411
WS-014(5.5-6.0)090813 Filt Grab Surface Water	7190412
WS-012(1.5-2.0)090813 Filt Grab Surface Water	7190413
WS-012(5.0-5.5)090813 Filt Grab Surface Water	7190414
WS-010(1.5-2.0)090813 Filt Grab Surface Water	7190415
WS-010(3.5-4.0)090813 Filt Grab Surface Water	7190416

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

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1417372

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:**SW-846 6010B, Metals Dissolved**

Batch #: 132531848005 (Sample number(s): 7190392-7190414 UNSPK: 7190398 BKG: 7190398)

The duplicate RPD for the following analyte(s) exceeded the acceptance window:
Arsenic

Batch #: 132531848006 (Sample number(s): 7190415-7190416 UNSPK: P190424 BKG: P190424)

The duplicate RPD for the following analyte(s) exceeded the acceptance window:
Arsenic, Nickel

REVISED

Sample Description: WS-014(1.5-2.0)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190392
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 09:00 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F1415 SDG#: PEL32-01

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	0.0190	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	132531848005	09/12/2013 07:20	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 07:20	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 07:20	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 07:20	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 07:20	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 07:20	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 07:20	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 07:20	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 07:20	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 06:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-014(5.5-6.0)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190393
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 09:10 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F1455 SDG#: PEL32-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0247	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132531848005	09/12/2013 07:24	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 07:24	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 07:24	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 07:24	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 07:24	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 07:24	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 07:24	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 07:24	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 07:24	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 06:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-012(1.5-2.0)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190394
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 09:20 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F1215 SDG#: PEL32-03

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	0.0086 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0183	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						
00259	Mercury	7439-97-6	N.D.	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	132531848005	09/12/2013 07:36	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 07:36	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 07:36	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 07:36	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 07:36	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 07:36	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 07:36	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 07:36	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 07:36	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 06:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-012(5.0-5.5)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190395
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 09:30 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F1250 SDG#: PEL32-04

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	0.0254	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	132531848005	09/12/2013 07:40	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 07:40	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 07:40	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 07:40	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 07:40	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 07:40	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 07:40	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 07:40	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 07:40	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 06:47	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-010(1.5-2.0)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190396
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 09:40 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F1015 SDG#: PEL32-05

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	0.0080 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0278	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	132531848005	09/12/2013 07:44	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 07:44	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 07:44	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 07:44	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 07:44	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 07:44	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 07:44	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 07:44	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 07:44	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 06:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-010(3.5-4.0)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190397
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 09:50 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F1025 SDG#: PEL32-06

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	0.0340	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	132531848005	09/12/2013 07:48	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 07:48	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 07:48	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 07:48	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 07:48	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 07:48	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 07:48	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 07:48	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 07:48	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 06:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-006(0.5-1.0)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190398
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 10:00 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F0605 SDG#: PEL32-07BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0274	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	132531848005	09/12/2013 06:56	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 06:56	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 06:56	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 06:56	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 06:56	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 06:56	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 06:56	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 06:56	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 06:56	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 06:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-006(0.5-1.0)090713MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190399
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 10:00 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F0605 SDG#: PEL32-07MS

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	0.157	0.0068	0.0200	1
07046	Barium	7440-39-3	2.08	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0520	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.208	0.0016	0.0150	1
07055	Lead	7439-92-1	0.155	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.526	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.157	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0468	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.530	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00095	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	132531848005	09/12/2013 07:08	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 07:08	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 07:08	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 07:08	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 07:08	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 07:08	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 07:08	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 07:08	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 07:08	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-006(0.5-1.0)090713MSD Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190400
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 10:00 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F0605 SDG#: PEL32-07MSD

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	0.163	0.0068	0.0200	1
07046	Barium	7440-39-3	2.08	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0523	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.207	0.0016	0.0150	1
07055	Lead	7439-92-1	0.153	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.525	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.159	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0470	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.532	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00092	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	132531848005	09/12/2013 07:12	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 07:12	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 07:12	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 07:12	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 07:12	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 07:12	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 07:12	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 07:12	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 07:12	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-006(0.5-1.0)090713DUP Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190401
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 10:00 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F0605 SDG#: PEL32-07DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0081 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0272	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	132531848005	09/12/2013 07:04	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 07:04	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 07:04	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 07:04	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 07:04	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 07:04	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 07:04	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 07:04	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 07:04	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 06:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-005(Surface)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190402
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 10:35 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F05-S SDG#: PEL32-08

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	0.0299	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	132531848005	09/12/2013 07:52	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 07:52	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 07:52	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 07:52	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 07:52	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 07:52	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 07:52	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 07:52	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 07:52	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-002(Surface)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190403
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 11:00 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F02-S SDG#: PEL32-09

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	0.0126	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	132531848005	09/12/2013 07:56	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 07:56	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 07:56	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 07:56	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 07:56	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 07:56	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 07:56	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 07:56	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 07:56	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-011(1.5-2.0)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190404
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 11:10 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F1115 SDG#: PEL32-10

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 0.0070 J	mg/l 0.0068	mg/l 0.0200	1
07046	Barium	7440-39-3	0.0194	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	132531848005	09/12/2013 08:00	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 08:00	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 08:00	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 08:00	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 08:00	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 08:00	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 08:00	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 08:00	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 08:00	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-011(5.0-5.5)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190405
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 11:20 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F1850 SDG#: PEL32-11

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	0.0070 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0222	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	132531848005	09/12/2013 08:04	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 08:04	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 08:04	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 08:04	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 08:04	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 08:04	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 08:04	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 08:04	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 08:04	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-018(Surface)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190406
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 11:30 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F18S- SDG#: PEL32-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0544	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	132531848005	09/12/2013 08:08	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 08:08	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 08:08	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 08:08	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 08:08	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 08:08	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 08:08	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 08:08	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 08:08	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-003(Surface)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190407
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 11:40 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F03S- SDG#: PEL32-13

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	0.0073 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0160	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	132531848005	09/12/2013 08:12	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 08:12	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 08:12	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 08:12	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 08:12	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 08:12	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 08:12	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 08:12	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 08:12	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-007(0.5-1.0)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190408
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 12:00 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F0705 SDG#: PEL32-14

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	SW-846 6010B 7440-38-2	mg/l N.D.	mg/l 0.0068	mg/l 0.0200	1
07046	Barium	7440-39-3	0.0124	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	132531848005	09/12/2013 08:24	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 08:24	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 08:24	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 08:24	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 08:24	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 08:24	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 08:24	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 08:24	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 08:24	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:22	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-001(0.5-1.0)090713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190409
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 12:10 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F0105 SDG#: PEL32-15

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	0.0329	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	132531848005	09/12/2013 08:28	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 08:28	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 08:28	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 08:28	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 08:28	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 08:28	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 08:28	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 08:28	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 08:28	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-EB-54-090713 Filt Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190410
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/07/2013 12:30 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

FEB54 SDG#: PEL32-16EB

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

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132531848005	09/12/2013 08:32	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 08:32	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 08:32	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 08:32	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 08:32	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 08:32	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 08:32	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 08:32	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 08:32	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-014(1.5-2.0)090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190411
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 08:35 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F9814 SDG#: PEL32-17

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	0.0089 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0142	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	132531848005	09/12/2013 08:36	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 08:36	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 08:36	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 08:36	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 08:36	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 08:36	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 08:36	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 08:36	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 08:36	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-014(5.5-6.0)090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190412
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 08:45 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F8145 SDG#: PEL32-18

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	0.0147	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	132531848005	09/12/2013 08:40	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 08:40	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 08:40	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 08:40	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 08:40	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 08:40	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 08:40	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 08:40	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 08:40	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-012(1.5-2.0)090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190413
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 08:55 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F1218 SDG#: PEL32-19

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	0.0147	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	132531848005	09/12/2013 08:44	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 08:44	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 08:44	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 08:44	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 08:44	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 08:44	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 08:44	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 08:44	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 08:44	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-012(5.0-5.5)090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190414
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 09:05 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F1258 SDG#: PEL32-20

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	0.0177	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132531848005	09/12/2013 08:48	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132531848005	09/12/2013 08:48	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132531848005	09/12/2013 08:48	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132531848005	09/12/2013 08:48	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132531848005	09/12/2013 08:48	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132531848005	09/12/2013 08:48	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132531848005	09/12/2013 08:48	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132531848005	09/12/2013 08:48	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132531848005	09/12/2013 08:48	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132535713006	09/12/2013 07:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848005	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713006	09/11/2013 15:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-010(1.5-2.0)090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190415
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 09:25 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F8101 SDG#: PEL32-21

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	0.0202	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	132531848006	09/12/2013 10:58	Deborah A Krady	1
07046	Barium	SW-846 6010B	1	132531848006	09/12/2013 10:58	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132531848006	09/12/2013 10:58	Deborah A Krady	1
07051	Chromium	SW-846 6010B	1	132531848006	09/12/2013 10:58	Deborah A Krady	1
07055	Lead	SW-846 6010B	1	132531848006	09/12/2013 10:58	Deborah A Krady	1
07061	Nickel	SW-846 6010B	1	132531848006	09/12/2013 10:58	Deborah A Krady	1
07036	Selenium	SW-846 6010B	1	132531848006	09/12/2013 10:58	Deborah A Krady	1
07066	Silver	SW-846 6010B	1	132531848006	09/12/2013 10:58	Deborah A Krady	1
07071	Vanadium	SW-846 6010B	1	132531848006	09/12/2013 10:58	Deborah A Krady	1
00259	Mercury	SW-846 7470A	1	132535713007	09/12/2013 07:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848006	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713007	09/11/2013 16:50	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-010(3.5-4.0)090813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7190416
LL Group # 1417372
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/08/2013 09:35 by DD

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

Submitted: 09/09/2013 12:10

Reported: 09/13/2013 11:08

F8103 SDG#: PEL32-22*

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	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0296	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						
SW-846 7470A						
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
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	132531848006	09/12/2013 11:02	Deborah A Krady	1
07046	Barium	SW-846 6010B	1	132531848006	09/12/2013 11:02	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132531848006	09/12/2013 11:02	Deborah A Krady	1
07051	Chromium	SW-846 6010B	1	132531848006	09/12/2013 11:02	Deborah A Krady	1
07055	Lead	SW-846 6010B	1	132531848006	09/12/2013 11:02	Deborah A Krady	1
07061	Nickel	SW-846 6010B	1	132531848006	09/12/2013 11:02	Deborah A Krady	1
07036	Selenium	SW-846 6010B	1	132531848006	09/12/2013 11:02	Deborah A Krady	1
07066	Silver	SW-846 6010B	1	132531848006	09/12/2013 11:02	Deborah A Krady	1
07071	Vanadium	SW-846 6010B	1	132531848006	09/12/2013 11:02	Deborah A Krady	1
00259	Mercury	SW-846 7470A	1	132535713007	09/12/2013 07:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132531848006	09/11/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132535713007	09/11/2013 16:50	Nelli S Markaryan	1

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

Quality Control SummaryClient Name: ExxonMobil c/o Arcadis
Reported: 09/13/13 at 11:08 AM

Group Number: 1417372

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: 132531848005	Sample number(s): 7190392-7190414								
Arsenic	N.D.	0.0068	0.0200	mg/l	102		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	102		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	104		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	103		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	103		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	105		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	106		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	92		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	104		90-110		
Batch number: 132531848006	Sample number(s): 7190415-7190416								
Arsenic	N.D.	0.0068	0.0200	mg/l	102		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	104		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	104		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	104		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	93		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	101		90-110		
Batch number: 132535713006	Sample number(s): 7190392-7190414								
Mercury	N.D.	0.00006	0.00020	mg/l	95		80-120		
		0							
Batch number: 132535713007	Sample number(s): 7190415-7190416								
Mercury	N.D.	0.00006	0.00020	mg/l	97		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: 132531848005	Sample number(s): 7190392-7190414 UNSPK: 7190398 BKG: 7190398								
Arsenic	105	109	81-123	3	20	N.D.	0.0081 J	200* (1)	20
Barium	103	103	78-118	0	20	0.0274	0.0272	1	20
Cadmium	104	105	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
Reported: 09/13/13 at 11:08 AM

Group Number: 1417372

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>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	104	103	81-120	0	20	N.D.	N.D.	0 (1)	20
Lead	103	102	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	105	105	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	105	106	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	94	94	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	106	106	90-111	0	20	N.D.	N.D.	0 (1)	20
Batch number: 132531848006 Sample number(s): 7190415-7190416 UNSPK: P190424 BKG: P190424									
Arsenic	106	106	81-123	0	20	N.D.	0.0070 J	200* (1)	20
Barium	100	100	78-118	0	20	0.0311	0.0317	2	20
Cadmium	104	104	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	102	101	81-120	1	20	0.0019 J	0.0022 J	14 (1)	20
Lead	106	107	75-125	0	20	N.D.	N.D.	0 (1)	20
Nickel	105	105	86-115	0	20	0.0018 J	0.0023 J	22* (1)	20
Selenium	105	105	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	93	93	75-125	0	20	N.D.	N.D.	0 (1)	20
Vanadium	103	102	90-111	1	20	0.0029 J	0.0027 J	7 (1)	20
Batch number: 132535713006 Sample number(s): 7190392-7190414 UNSPK: 7190398 BKG: 7190398									
Mercury	95	92	80-120	4	20	N.D.	N.D.	0 (1)	20
Batch number: 132535713007 Sample number(s): 7190415-7190416 UNSPK: P190429 BKG: P190429									
Mercury	97	95	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
Environmental

Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only
Group # 147372 Sample # 7190392-416
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 ☐ Ground ☒ Surface ☐ NPDES ☐ Air ☐ Oil ☐ Total # of Containers		Preservation Code										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																																																	
Site Address <u>Mayflower, AR</u>						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>H</td><td></td><td>N</td><td></td><td>H</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												H		N		H																																																											
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ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE																																																																															
Consultant/Office <u>ARCADIS</u>																																																																																	
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919-302-6799</u>																																																																															
Sampler <u>Dave Drost / Ryan Lewis</u>																																																																																	
2 Sample Identification				3 Collected																																																																													
		Date		Time		Grab		Composite		Soil		Water		Oil		Total # of Containers																																																																	
WS-014 (1.5-2.0)		090713		9-7-2013		0900		X				X				9		X		X																																																													
WS-014 (5.5-6.0)		090713		9-7-2013		0910		X				X				9		X		X																																																													
WS-012 (1.5-2.0)		090713		9-7-2013		0920		X				X				9		X		X																																																													
WS-012 (5.0-5.5)		090713		9-7-2013		0930		X				X				9		X		X																																																													
WS-010 (1.5-2.0)		090713		9-7-2013		0940		X				X				9		X		X																																																													
WS-010 (3.5-4.0)		090713		9-7-2013		0950		X				X				9		X		X																																																													
WS-006 (0.5-1.0)		090713		9-7-2013		1000		X				X				9		X		X																																																													
WS-005 (surface)		090713		9-7-2013		1035		X				X				9		X		X																																																													
WS-002 (surface)		090713		9-7-2013		1100		X				X				9		X		X																																																													
WS-011 (1.5-2.0)		090713		9-7-2013		1110		X				X				9		X		X																																																													
WS-011 (5.0-5.5)		090713		9-7-2013		1120		X				X				9		X		X																																																													
WS-018 (surface)		090713		9-7-2013		1130		X				X				9		X		X																																																													
7 Turnaround Time Requested (TAT) (please circle)				8 Data Package (circle if required)		EDD (circle if required)		Relinquished by		Date		Time		Received by		Date		Time		9																																																													
Standard <u>5 day</u> 4 day				Type I - Full		Locus EIM (default)		Relinquished by <u>Ryan Lewis</u>		Date <u>9-8-2013</u>		Time <u>1300</u>		Received by <u>[Signature]</u>		Date		Time																																																															
72 hour 48 hour 24 hour				Type VI (Raw Data)		Other		Relinquished by		Date		Time		Received by		Date		Time																																																															
				NJ Reduced				Relinquished by Commercial Carrier		Date		Time		Received by		Date		Time																																																															
				Other				UPS FedEx Other <u>Southwest</u>		Date		Time		Received by <u>[Signature]</u>		Date <u>9/9/13</u>		Time <u>1210</u>																																																															
								Temperature Upon Receipt <u>0.3-2.5°C</u>						Custody Seals Intact?		Yes 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 # 147372 Sample # 7190392-416
Instructions on reverse side correspond with circled numbers.

2 of 3

1 Client Information				4 Matrix				5 Analyses Requested												6			
Facility #/SID <u>Mayflower Pipeline Incident</u> Site Address <u>Mayflower, AR</u> ExxonMobil PM <u>Scott Boshree</u> Consultant/Office <u>ARCADIS</u> Consultant PM <u>Steve Barrick</u> Consultant Phone # <u>919-302-6799</u> Sampler <u>Dave Frost / Ryan Lewis</u>				Sediment ☐ Ground ☐ Surface ☒ Potable ☐ NPDES ☐ Air ☐ Soil ☐ Water ☐ Oil ☐				Preservation Code H ☐ D ☐ H ☐ <u>VOCs 8260B</u> <u>PAH 8270 SIM</u> <u>RRA Metals Div, Ca, 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			
2 Sample Identification			3 Collected		Grab	Composite	Soil	Water	Oil	Total # of Containers													
		Date	Time																				
WS-003 (Surface)	090713	9-7-2013	1140	X				X		9	X	X	X	X	X								
WS-007 (0.5-1.0)	090713	9-7-2013	1200	X				X		9	X	X	X	X	X								
WS-001 (0.5-1.0)	090713	9-7-2013	1210	X				X		9	X	X	X	X	X								
WS-EB-54	090713	9-7-2013	1230	X				X		7	X	X	X	X									
WS-TB-143	090713	9-7-2013	1300	X				X		2	X												
WS-006 (0.5-1.0)	090713 MS/MSD	9-7-2013	1000	X				X		18	X	X	X	X	X								
WS-014 (0.5-2.0)	090813	9-8-2013	0835	X				X		9	X	X	X	X	X								
WS-014 (3.5-6.0)	090813	9-8-2013	0845	X				X		9	X	X	X	X	X								
WS-012 (1.5-2.0)	090813	9-8-2013	0855	X				X		9	X	X	X	X	X								
WS-012 (5.0-5.5)	090813	9-8-2013	0905	X				X		9	X	X	X	X	X								
WS-010 (1.5-2.0)	090813	9-8-2013	0925	X				X		9	X	X	X	X	X								
WS-010 (3.5-4.0)	090813	9-8-2013	0935	X				X		9	X	X	X	X	X								

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by		Date		Time		Received by		Date		Time	
Standard <u>5 day</u> 4 day			<u>Memo Lewis</u>		9-8-2013		1300							
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 _____ FedEx _____ Other <u>Southwest</u>				<u>[Signature]</u>		9/9/13		1710	
Type VI (Raw Data)			Other _____		Temperature Upon Receipt <u>03-25 °C</u>				Custody Seals Intact?		Yes <u>(circled)</u>		No	
NJ Reduced														
Other _____														

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7053 0713

6-1417372
Environmental Sample Administration
Receipt Documentation LogClient/Project: Exxon MobilShipping Container Sealed: YES NODate of Receipt: 9/9/13Custody Seal Present * : YES NOTime of Receipt: 1210

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

Source Code: 01Package: Chilled Not Chilled

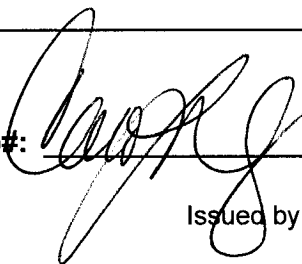
Temperature of Shipping Containers

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	2.0	TB	WI	Y	B	
2	↓	0.5	↓	↓	↓	↓	
3	↓	1.7	↓	↓	↓	↓	
4	↓	0.9	↓	↓	↓	↓	OD + SW)
5	↓	2.5	↓	↓	↓	↓	
6	↓	0.4	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:



964

Date/Time:

9/9/13

1315

Issued by Dept. 6042 Management

G-1417372

Environmental Sample Administration
Receipt Documentation LogClient/Project: Exxon MobilShipping Container Sealed: YES NODate of Receipt: 9/9/13Custody Seal Present *: YES NOTime of Receipt: 1210* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 01Package: Chilled Not Chilled

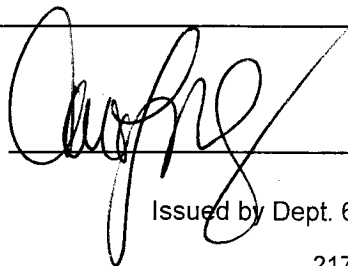
Temperature of Shipping Containers

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
7	DT121	2.1	TB	WI	Y	B	
7 ₈		0.3					
7 ₉		0.8					
7 ₁₀		1.7					
7 ₁₁		1.3					
7 ₁₂		1.9					

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:



964

Date/Time:

9/9/13 1315

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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