

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

September 03, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 08/29/2013

Group Number: 1415032

SDG: PEL12

PO Number: B0086003.1301

State of Sample Origin: AR

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
WS-014(1.5-2.0)082813 Filt Grab Surface Water	7179114
WS-014(5.5-6.0)082813 Filt Grab Surface Water	7179115
WS-012(1.5-2.0)082813 Filt Grab Surface Water	7179116
WS-012(5.0-5.5)082813 Filt Grab Surface Water	7179117
WS-010(1.5-2.0)082813 Filt Grab Surface Water	7179118
WS-010(3.5-4.0)082813 Filt Grab Surface Water	7179119
WS-006(0.5-1.0)082813 Filt Grab Surface Water	7179120
WS-006(0.5-1.0)082813MS Filt Grab Surface Water	7179121
WS-006(0.5-1.0)082813MSD Filt Grab Surface Water	7179122
WS-006(0.5-1.0)082813DUP Filt Grab Surface Water	7179123
WS-005(Surface)082813 Filt Grab Surface Water	7179124
WS-002(Surface)082813 Filt Grab Surface Water	7179125
WS-018(Surface)082813 Filt Grab Surface Water	7179126
WS-011(1.5-2.0)082813 Filt Grab Surface Water	7179127
WS-011(5.0-5.5)082813 Filt Grab Surface Water	7179128
WS-003(Surface)082813 Filt Grab Surface Water	7179129
WS-007(0.5-1.0)082813 Filt Grab Surface Water	7179130
WS-001(0.5-1.0)082813 Filt Grab Surface Water	7179131
DUP-WS-78-082813 Filt Grab Surface Water	7179132
WS-EB-044-082813 Filt Grab Water	7179133

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

ELECTRONIC COPY TO
ELECTRONIC COPY TO

ARCADIS
ARCADIS

Attn: Stephen Barrick

Attn: Lyndi Mott

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

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1415032

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 #: 132411848002 (Sample number(s): 7179114-7179133 UNSPK: 7179120 BKG: 7179120)

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

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

Sample Description: WS-014(1.5-2.0)082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179114
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 09:20 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2814F SDG#: PEL12-01

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	0.0092	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	132411848002	08/31/2013 18:07	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 18:07	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 18:07	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 18:07	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 18:07	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 18:07	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 18:07	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 18:07	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 18:07	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 06:47	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

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

Sample Description: WS-014(5.5-6.0)082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179115
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 09:30 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

28F14 SDG#: PEL12-02

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	0.0097	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	132411848002	08/31/2013 18:11	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 18:11	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 18:11	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 18:11	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 18:11	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 18:11	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 18:11	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 18:11	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 18:11	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 06:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179116
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 09:45 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2812F SDG#: PEL12-03

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	0.0145	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	132411848002	08/31/2013 18:23	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 18:23	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 18:23	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 18:23	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 18:23	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 18:23	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 18:23	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 18:23	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 18:23	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 06:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179117
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 09:55 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

28F12 SDG#: PEL12-04

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	0.0154	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	132411848002	08/31/2013 18:27	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 18:27	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 18:27	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 18:27	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 18:27	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 18:27	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 18:27	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 18:27	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 18:27	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 06:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179118
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 10:10 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2810F SDG#: PEL12-05

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	0.0051	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	132411848002	08/31/2013 18:32	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 18:32	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 18:32	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 18:32	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 18:32	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 18:32	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 18:32	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 18:32	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 18:32	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 06:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179119
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 10:20 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

28F10 SDG#: PEL12-06

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	0.0318	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	132411848002	08/31/2013 18:36	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 18:36	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 18:36	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 18:36	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 18:36	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 18:36	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 18:36	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 18:36	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 18:36	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 06:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179120
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 10:30 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2806F SDG#: PEL12-07BKG

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	0.010 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0086	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	132411848002	08/31/2013 17:42	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 17:42	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 17:42	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 17:42	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 17:42	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 17:42	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 17:42	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 17:42	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 17:42	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 06:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)082813MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179121
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 10:30 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2806F SDG#: PEL12-07MS

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	0.148	0.0068	0.0200	1
07046	Barium	7440-39-3	1.99	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0500	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.202	0.0016	0.0150	1
07055	Lead	7439-92-1	0.150	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.509	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.151	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0447	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.508	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00097	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	132411848002	08/31/2013 17:54	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 17:54	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 17:54	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 17:54	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 17:54	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 17:54	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 17:54	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 17:54	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 17:54	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 07:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)082813MSD Filtr Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179122
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 10:30 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2806F SDG#: PEL12-07MSD

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	0.150	0.0068	0.0200	1
07046	Barium	7440-39-3	1.94	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0492	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.196	0.0016	0.0150	1
07055	Lead	7439-92-1	0.148	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.504	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.145	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0427	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.496	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00096	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	132411848002	08/31/2013 17:58	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 17:58	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 17:58	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 17:58	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 17:58	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 17:58	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 17:58	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 17:58	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 17:58	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 07:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)082813DUP Filtr Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179123
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 10:30 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2806F SDG#: PEL12-07DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0085	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	132411848002	08/31/2013 17:50	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 17:50	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 17:50	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 17:50	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 17:50	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 17:50	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 17:50	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 17:50	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 17:50	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 07:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: WS-005 (Surface) 082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179124
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 11:15 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2805F SDG#: PEL12-08

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	0.0072 J	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	132411848002	08/31/2013 18:40	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 18:40	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 18:40	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 18:40	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 18:40	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 18:40	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 18:40	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 18:40	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 18:40	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 07:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

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

Sample Description: WS-002 (Surface) 082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179125
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 11:35 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2802F SDG#: PEL12-09

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

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132411848002	08/31/2013 18:44	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 18:44	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 18:44	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 18:44	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 18:44	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 18:44	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 18:44	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 18:44	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 18:44	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 07:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: WS-018 (Surface) 082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179126
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 13:05 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2818F SDG#: PEL12-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0327	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	132411848002	08/31/2013 18:48	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 18:48	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 18:48	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 18:48	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 18:48	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 18:48	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 18:48	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 18:48	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 18:48	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 07:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179127
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 12:00 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2811F SDG#: PEL12-11

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	0.0032 J	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	132411848002	08/31/2013 18:52	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 18:52	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 18:52	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 18:52	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 18:52	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 18:52	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 18:52	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 18:52	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 18:52	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 07:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179128
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 12:10 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

28F11 SDG#: PEL12-12

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	0.0064	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	132411848002	08/31/2013 18:56	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 18:56	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 18:56	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 18:56	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 18:56	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 18:56	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 18:56	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 18:56	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 18:56	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 07:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: WS-003 (Surface) 082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179129
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 13:15 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2803F SDG#: PEL12-13

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	0.0072 J	0.0068	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	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	132411848002	08/31/2013 19:01	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 19:01	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 19:01	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 19:01	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 19:01	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 19:01	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 19:01	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 19:01	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 19:01	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 07:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

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

Sample Description: WS-007(0.5-1.0)082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179130
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 13:30 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2807F SDG#: PEL12-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0140	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132411848002	08/31/2013 19:13	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 19:13	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 19:13	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 19:13	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 19:13	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 19:13	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 19:13	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 19:13	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 19:13	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 07:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

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

Sample Description: WS-001(0.5-1.0)082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179131
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 13:40 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2801F SDG#: PEL12-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0129	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	132411848002	08/31/2013 19:17	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 19:17	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 19:17	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 19:17	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 19:17	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 19:17	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 19:17	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 19:17	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 19:17	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 07:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: DUP-WS-78-082813 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7179132
LL Group # 1415032
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/28/2013 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2878F SDG#: PEL12-16FD

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	0.0124	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		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	132411848002	08/31/2013 19:21	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 19:21	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 19:21	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 19:21	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 19:21	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 19:21	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 19:21	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 19:21	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 19:21	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 07:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Sample Description: **WS-EB-044-082813 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7179133**
 LL Group # **1415032**
 Account # **14739**

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

Collected: 08/28/2013 14:30 by TM

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

Submitted: 08/29/2013 09:25

Reported: 09/03/2013 09:33

2844F SDG#: PEL12-17EB*

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	132411848002	08/31/2013 19:25	John P Hook	1
07046	Barium	SW-846 6010B	1	132411848002	08/31/2013 19:25	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132411848002	08/31/2013 19:25	John P Hook	1
07051	Chromium	SW-846 6010B	1	132411848002	08/31/2013 19:25	John P Hook	1
07055	Lead	SW-846 6010B	1	132411848002	08/31/2013 19:25	John P Hook	1
07061	Nickel	SW-846 6010B	1	132411848002	08/31/2013 19:25	John P Hook	1
07036	Selenium	SW-846 6010B	1	132411848002	08/31/2013 19:25	John P Hook	1
07066	Silver	SW-846 6010B	1	132411848002	08/31/2013 19:25	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132411848002	08/31/2013 19:25	John P Hook	1
00259	Mercury	SW-846 7470A	1	132415713004	08/31/2013 07:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132411848002	08/30/2013 10:07	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132415713004	08/30/2013 16:15	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 09/03/13 at 09:33 AM

Group Number: 1415032

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: 132411848002	Sample number(s): 7179114-7179133								
Arsenic	N.D.	0.0068	0.0200	mg/l	97		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	98		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	100		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	100		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	101		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	101		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	98		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	88		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	101		90-110		
Batch number: 132415713004	Sample number(s): 7179114-7179133								
Mercury	N.D.	0.00006	0.00020	mg/l	100		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: 132411848002	Sample number(s): 7179114-7179133 UNSPK: 7179120 BKG: 7179120								
Arsenic	92	94	81-123	2	20	0.010 J	N.D.	200* (1)	20
Barium	99	96	78-118	3	20	0.0086	0.0085	1 (1)	20
Cadmium	100	98	83-116	2	20	N.D.	N.D.	0 (1)	20
Chromium	101	98	81-120	3	20	N.D.	N.D.	0 (1)	20
Lead	100	99	75-125	2	20	N.D.	N.D.	0 (1)	20
Nickel	102	101	86-115	1	20	N.D.	N.D.	0 (1)	20
Selenium	101	97	75-125	4	20	N.D.	N.D.	0 (1)	20
Silver	89	85	75-125	5	20	N.D.	N.D.	0 (1)	20
Vanadium	102	99	90-111	2	20	N.D.	N.D.	0 (1)	20
Batch number: 132415713004	Sample number(s): 7179114-7179133 UNSPK: 7179120 BKG: 7179120								
Mercury	97	96	80-120	1	20	N.D.	N.D.	0 (1)	20

*- Outside of specification

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

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

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

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 14739

For Eurofins Lancaster Laboratories use only
 Group # 1415032 Sample # 7179114-33
Instructions on reverse side correspond with circled numbers.

pg. 2 of 2

1 Client Information				4 Matrix			5 Analyses Requested							6 Remarks																												
Facility #/SID <u>May Flower Pipeline Incident</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Oil <input type="checkbox"/> Air	Total # of Containers 9 9 9 9 9 7 2	Preservation Code							SCR#: _____		Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																											
Site Address <u>May Flower, AR</u>						<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">H</td><td style="width: 5%;">N</td><td style="width: 5%;">H</td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td> </tr> <tr> <td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td> </tr> </table>							H	N			H												✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
H	N	H																																								
✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓			✓																									
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">VOCs</td><td style="width: 5%;">PAH</td><td style="width: 5%;">RCRA Metals + Ni, V, Cr, Pb, Hg</td><td style="width: 5%;">Diss. Metals</td><td style="width: 5%;">HEM Oil & Grease</td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td><td style="width: 5%;"> </td> </tr> <tr> <td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td> </tr> </table>							VOCs	PAH			RCRA Metals + Ni, V, Cr, Pb, Hg	Diss. Metals	HEM Oil & Grease										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VOCs	PAH	RCRA Metals + Ni, V, Cr, Pb, Hg	Diss. Metals										HEM Oil & Grease																													
✓	✓	✓	✓	✓	✓								✓	✓	✓	✓	✓	✓	✓	✓																						
Consultant/Office <u>Arco</u>																																										
Consultant PM <u>Steve Borrick</u>		Consultant Phone # <u>919-302-6799</u>																																								
Sampler <u>Tyler Millburn/Johnny Beasley</u>																																										
2 Sample Identification				3 Collected		Grab		Composite																																		
		Date		Time																																						
<u>WS-011 (S.O.S) 082813</u>		<u>8/28/13</u>		<u>1210</u>		✓																																				
<u>WS-003 (Surface) 082813</u>		↓		<u>1315</u>		✓																																				
<u>WS-007 (O.S.I.) 082813</u>				<u>1330</u>		✓																																				
<u>WS-001 (O.S.I.) 082813</u>				<u>1340</u>		✓																																				
<u>Dup-WS-78-082813</u>				—		✓																																				
<u>WS-EB-044-082813</u>				<u>1430</u>		✓																																				
<u>WS-TB-135-082813</u>				↓		—		✓																																		
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>Dyler Mills</u>		Date <u>8/28/13</u>		Time <u>1600</u>		Received by		Date		Time																												
Standard <u>5 day</u> 4 day																																										
72 hour 48 hour 24 hour																																										
8 Data Package (circle if required)				Relinquished by		Date		Time		Received by		Date		Time																												
																8 Data Package (circle if required)				Relinquished by Commercial Carrier		Received by		Date		Time																
Type I - Full				Locus EIM (default)		UPS <input checked="" type="checkbox"/>		FedEx _____		Other _____		<u>Deborah Neill</u>		<u>8/29/13</u>		<u>0925</u>																										
Type VI (Raw Data)				Other _____		Temperature Upon Receipt <u>0.3-4.2 °C</u>		Custody Seals Intact? <u>Yes</u>																																		
NJ Reduced																																										
Other _____																																										

Environmental Sample Administration 1415032
 Receipt Documentation Log

Client/Project: XOM Mayflower

Shipping Container Sealed: YES NO

Date of Receipt: 8/29/13

Custody Seal Present * : YES NO

Time of Receipt: 0925

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

Source Code: 60-1

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT146	1.5	TB	WI	Y	B	
2	↓	1.9	↓	↓	↓	↓	
3	↓	0.3	↓	↓	↓	↓	
4	↓	4.2	↓	↓	↓	↓	
5	↓	0.8	↓	↓	↓	↓	
6	↓	1.9	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: D. Nedlund / 208 Date/Time: 8/29/13 / 1000

Environmental Sample Administration 1415032
 Receipt Documentation Log

Client/Project: XOM Mayflower

Shipping Container Sealed: YES NO

Date of Receipt: 8/29/13

Custody Seal Present * : YES NO

Time of Receipt: 0925

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

Source Code: 60-1

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
2 7	DT 146	0.6	TB	WI	Y	B	
2							
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Daneslund / 208 Date/Time: 8/29/13/1000

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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

ppb parts per billion

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

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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

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