

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

October 01, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 09/27/2013

Group Number: 1422005

SDG: PEL77

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LL) #

WS-014(1.5-2.0)092613 Filt Grab Surface Water	7215182
WS-014(5.5-6.0)092613 Filt Grab Surface Water	7215183
WS-012(1.5-2.0)092613 Filt Grab Surface Water	7215184
WS-012(5.0-5.5)092613 Filt Grab Surface Water	7215185
WS-010(1.5-2.0)092613 Filt Grab Surface Water	7215186
WS-010(3.5-4.0)092613 Filt Grab Surface Water	7215187
WS-006(0.5-1.0)092613 Filt Grab Surface Water	7215188
WS-005(Surface)092613 Filt Grab Surface Water	7215189
WS-011(1.5-2.0)092613 Filt Grab Surface Water	7215190
WS-011(5.0-5.5)092613 Filt Grab Surface Water	7215191
WS-002(Surface)092613 Filt Grab Surface Water	7215192
WS-018(Surface)092613 Filt Grab Surface Water	7215193
WS-003(Surface)092613 Filt Grab Surface Water	7215194
WS-007(0.5-1.0)092613 Filt Grab Surface Water	7215195
WS-001(0.5-1.0)092613 Filt Grab Surface Water	7215196
WS-EB-73-092613 Filt Grab Water	7215197
DUP-WS-93-092613 Filt Grab Surface Water	7215198

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

COPY TO		
ELECTRONIC	ARCADIS	Attn: Rhiannon Parmalee
COPY TO		
ELECTRONIC	ARCADIS	Attn: Jamie Pritchard
COPY TO		
ELECTRONIC	ExxonMobil	Attn: Michael L Sixsmith
COPY TO		
ELECTRONIC	ExxonMobil	Attn: Julie Foster
COPY TO		

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1422005

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 not included in this data set

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

No additional comments are necessary.

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)092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215182
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 08:45 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

2614F SDG#: PEL77-01

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	0.0172	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132701848007	10/01/2013 04:34	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 04:34	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 04:34	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 04:34	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 04:34	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 04:34	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 04:34	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 04:34	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 04:34	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	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)092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215183
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 08:55 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

26F14 SDG#: PEL77-02

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	0.0176	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	132701848007	10/01/2013 04:38	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 04:38	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 04:38	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 04:38	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 04:38	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 04:38	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 04:38	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 04:38	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 04:38	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	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-012(1.5-2.0)092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215184
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 09:05 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

2612F SDG#: PEL77-03

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	0.0198	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	132701848007	10/01/2013 04:49	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 04:49	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 04:49	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 04:49	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 04:49	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 04:49	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 04:49	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 04:49	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 04:49	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	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-012(5.0-5.5)092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215185
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 09:15 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

26F12 SDG#: PEL77-04

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	0.0208	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132701848007	10/01/2013 04:53	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 04:53	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 04:53	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 04:53	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 04:53	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 04:53	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 04:53	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 04:53	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 04:53	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	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-010(1.5-2.0)092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215186
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 09:25 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

2610F SDG#: PEL77-05

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	0.0216	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	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	132701848007	10/01/2013 04:57	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 04:57	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 04:57	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 04:57	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 04:57	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 04:57	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 04:57	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 04:57	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 04:57	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	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-010(3.5-4.0)092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215187
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 09:35 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

26F10 SDG#: PEL77-06

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	0.0223	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	132701848007	10/01/2013 05:01	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 05:01	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 05:01	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 05:01	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 05:01	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 05:01	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 05:01	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 05:01	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 05:01	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	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-006(0.5-1.0)092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215188
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 09:45 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

2606F SDG#: PEL77-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0204	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	132701848007	10/01/2013 04:11	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 04:11	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 04:11	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 04:11	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 04:11	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 04:11	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 04:11	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 04:11	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 04:11	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	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-005 (Surface) 092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215189
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 10:10 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

2605F SDG#: PEL77-08

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	0.0268	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	132701848007	10/01/2013 05:04	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 05:04	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 05:04	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 05:04	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 05:04	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 05:04	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 05:04	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 05:04	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 05:04	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215190
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 10:35 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

2611F SDG#: PEL77-09

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	0.0190	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	132701848007	10/01/2013 05:08	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 05:08	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 05:08	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 05:08	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 05:08	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 05:08	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 05:08	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 05:08	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 05:08	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	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-011(5.0-5.5)092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215191
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 10:45 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

26F11 SDG#: PEL77-10

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	0.0203	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	132701848007	10/01/2013 05:12	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 05:12	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 05:12	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 05:12	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 05:12	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 05:12	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 05:12	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 05:12	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 05:12	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	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) 092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215192
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 10:55 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

2602F SDG#: PEL77-11

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	0.0188	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	132701848007	10/01/2013 05:16	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 05:16	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 05:16	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 05:16	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 05:16	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 05:16	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 05:16	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 05:16	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 05:16	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	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-018 (Surface) 092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215193
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 11:20 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

2618F SDG#: PEL77-12

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	0.0341	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	132701848007	10/01/2013 05:20	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 05:20	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 05:20	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 05:20	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 05:20	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 05:20	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 05:20	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 05:20	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 05:20	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	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-003 (Surface) 092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215194
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 11:30 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

2603F SDG#: PEL77-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0093	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	132701848007	10/01/2013 05:24	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 05:24	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 05:24	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 05:24	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 05:24	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 05:24	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 05:24	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 05:24	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 05:24	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	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)092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215195
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 11:50 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

2607F SDG#: PEL77-14

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	0.0219	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.0016 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132701848007	10/01/2013 05:35	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 05:35	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 05:35	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 05:35	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 05:35	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 05:35	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 05:35	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 05:35	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 05:35	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	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)092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215196
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 12:00 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

2601F SDG#: PEL77-15

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	0.0157	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	132701848007	10/01/2013 05:39	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 05:39	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 05:39	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 05:39	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 05:39	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 05:39	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 05:39	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 05:39	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 05:39	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	Nelli S Markaryan	1

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

Sample Description: **WS-EB-73-092613 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7215197**
 LL Group # **1422005**
 Account # **14739**

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

Collected: 09/26/2013 12:30 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

2673F SDG#: PEL77-16EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.00043 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	132701848007	10/01/2013 05:43	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 05:43	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 05:43	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 05:43	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 05:43	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 05:43	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 05:43	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 05:43	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 05:43	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	Nelli S Markaryan	1

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

Sample Description: DUP-WS-93-092613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7215198
LL Group # 1422005
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/26/2013 by HVA

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

Submitted: 09/27/2013 09:30

Reported: 10/01/2013 11:43

2693F SDG#: PEL77-17FD*

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	0.0315	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	132701848007	10/01/2013 05:46	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132701848007	10/01/2013 05:46	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132701848007	10/01/2013 05:46	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132701848007	10/01/2013 05:46	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132701848007	10/01/2013 05:46	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132701848007	10/01/2013 05:46	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132701848007	10/01/2013 05:46	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132701848007	10/01/2013 05:46	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132701848007	10/01/2013 05:46	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132735713002	10/01/2013 05:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132701848007	09/30/2013 11:31	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132735713002	09/30/2013 15:30	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: 10/01/13 at 11:43 AM

Group Number: 1422005

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: 132701848007	Sample number(s): 7215182-7215198								
Arsenic	N.D.	0.0068	0.0200	mg/l	101		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	100		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	102		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	98		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	106		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	105		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	99		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	96		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	99		90-110		
Batch number: 132735713002	Sample number(s): 7215182-7215198								
Mercury	N.D.	0.00006	0.00020	mg/l	98		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: 132701848007	Sample number(s): 7215182-7215198 UNSPK: 7215188 BKG: 7215188								
Arsenic	102	104	81-123	2	20	N.D.	N.D.	0 (1)	20
Barium	100	104	78-118	3	20	0.0204	0.0208	2 (1)	20
Cadmium	102	103	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	99	102	76-120	2	20	N.D.	N.D.	0 (1)	20
Lead	106	108	75-125	2	20	N.D.	N.D.	0 (1)	20
Nickel	105	106	86-115	1	20	N.D.	N.D.	0 (1)	20
Selenium	99	100	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	97	98	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	101	103	90-117	3	20	N.D.	N.D.	0 (1)	20
Batch number: 132735713002	Sample number(s): 7215182-7215198 UNSPK: 7215185 BKG: 7215185								
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
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only

Group # 1422005

Sample # 7215182-98

Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information				4 Matrix			5 Analyses Requested						6 Remarks										
Facility #/SID <u>Mayflower Pipeline Incident</u>				Sediment <input type="checkbox"/>	Potable <input type="checkbox"/>	Oil <input type="checkbox"/>	Preservation Code						SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other										
Site Address <u>Mayflower, AR</u>							Ground <input type="checkbox"/>	Surface <input checked="" type="checkbox"/>															
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE		NPDES <input type="checkbox"/>	Air <input type="checkbox"/>							6 Lab to filter and pressure diss. metals upon receipt											
Consultant/Office <u>ARCADIS</u>																							
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919-302-6799</u>																					
Sampler <u>Hans Van Aller / Ryan Lewis</u>																							
2 Sample Identification			3 Collected																				
			Date	Time	Grab	Composite	Total # of Containers																
							Soil <input type="checkbox"/>	Water <input type="checkbox"/>	Oil <input type="checkbox"/>	#	#	#	#	#	#	#	#	#	#	#	#	#	
<u>WS-014 (1.5-2.0) 092613</u>			<u>9-26-2013</u>	<u>0845</u>	<u>X</u>					<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>WS-014 (5.5-6.0) 092613</u>			<u>9-26-2013</u>	<u>0855</u>	<u>X</u>					<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>WS-012 (1.5-2.0) 092613</u>			<u>9-26-2013</u>	<u>0905</u>	<u>X</u>					<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>WS-012 (5.0-5.5) 092613</u>			<u>9-26-2013</u>	<u>0915</u>	<u>X</u>					<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>WS-010 (1.5-2.0) 092613</u>			<u>9-26-2013</u>	<u>0925</u>	<u>X</u>					<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>WS-010 (3.5-4.0) 092613</u>			<u>9-26-2013</u>	<u>0935</u>	<u>X</u>					<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>WS-006 (0.5-1.0) 092613</u>			<u>9-26-2013</u>	<u>0945</u>	<u>X</u>					<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>WS-005 (surface) 092613</u>			<u>9-26-2013</u>	<u>1010</u>	<u>X</u>					<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>WS-011 (1.5-2.0) 092613</u>			<u>9-26-2013</u>	<u>1035</u>	<u>X</u>					<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>WS-011 (5.0-5.5) 092613</u>			<u>9-26-2013</u>	<u>1045</u>	<u>X</u>					<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>WS-002 (surface) 092613</u>			<u>9-26-2013</u>	<u>1055</u>	<u>X</u>					<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>WS-018 (surface) 092613</u>			<u>9-26-2013</u>	<u>1120</u>	<u>X</u>					<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>[Signature]</u>		Date <u>9-26-2013</u>	Time <u>1500</u>	Received by		Date	Time	9											
Standard <u>5 day</u> 4 day				Relinquished by		Date	Time	Received by		Date	Time												
72 hour 48 hour 24 hour				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>[Signature]</u>		<u>9-22-13</u>		<u>930</u>											
Type VI (Raw Data)				Other _____		Temperature Upon Receipt <u>05.12°C</u>		Custody Seals Intact?		<u>Yes</u>		No											
NJ Reduced																							
Other _____																							

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only

Group # 1422005 Sample # 7215182-98

Instructions on reverse side correspond with circled numbers.

2 of 2

1 Client Information				4 Matrix				5 Analyses Requested								6 Remarks																															
Facility #/SID <u>Mayflower Pipeline Incident</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil <input type="checkbox"/> Water	Preservation Code								SCR#: _____		Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																
Site Address <u>Mayflower, AR</u>					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> <td style="width: 20%;">H</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>								H	H			H	H	H	H	H	H	H	H	H	H	H	H	H	H	H																
H	H	H	H		H	H	H	H	H	H	H	H	H	H	H	H	H																														
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE			Total # of Containers <u>VOGS 8260 B</u> <u>PAH 8270 SIM</u> <u>RCRA Metals + Traceability</u> <u>Diss. Metals</u> <u>HEM Oil & Grease</u>								6 <u>Lab to filter and pressure diss. metals upon receipt</u>																																		
Consultant/Office <u>ARCADIS</u>																																															
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919-302-6799</u>																																													
Sampler <u>Hans Van Ailer / Ryan Lewis</u>																																															
2 Sample Identification				3 Grab / Composite																																											
		Collected		Grab	Composite																																										
		Date	Time																																												
<u>WS-003 (Surface)</u>		<u>092613</u>	<u>9-26-2013</u>	<u>1130</u>	<input checked="" type="checkbox"/>																																										
<u>WS-007 (OS-10)</u>		<u>092613</u>	<u>9-26-2013</u>	<u>1150</u>	<input checked="" type="checkbox"/>																																										
<u>WS-001 (OS-10)</u>		<u>092613</u>	<u>9-26-2013</u>	<u>1200</u>	<input checked="" type="checkbox"/>																																										
<u>WS-EB-73-092613</u>		<u>092613</u>	<u>9-26-2013</u>	<u>1230</u>	<input checked="" type="checkbox"/>																																										
<u>DOP-WS-93-092613</u>		<u>092613</u>	<u>9-26-2013</u>	<u>---</u>	<input checked="" type="checkbox"/>																																										
<u>WS-TB-161-092613</u>		<u>092613</u>	<u>9-26-2013</u>	<u>---</u>	<input checked="" type="checkbox"/>																																										
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by				Date		Time		Received by		Date		Time																															
Standard <u>5 day</u> 4 day				<u>[Signature]</u>				<u>9-26-2013</u>		<u>1500</u>		<u>[Signature]</u>																																			
72 hour 48 hour 24 hour																																															
8 Data Package (circle if required)				Relinquished by Commercial Carrier				Date		Time		Received by		Date		Time																															
Type I - Full		Type VI (Raw Data)		NJ Reduced		Other _____		UPS <input checked="" type="checkbox"/>		FedEx _____		Other _____		<u>[Signature]</u>		<u>9-27-13</u> <u>930</u>																															
Type I - Full		Type VI (Raw Data)		NJ Reduced		Other _____		UPS <input checked="" type="checkbox"/>		FedEx _____		Other _____																																			
EDD (circle if required)				Locus EIM (default)				Temperature Upon Receipt <u>05-12 °C</u>				Custody Seals Intact? <u>Yes</u> No																																			

Environmental Sample Administration 1422005
Receipt Documentation Log

Client/Project: XOM Mayflower
 Date of Receipt: 9/27/13
 Time of Receipt: 930
 Source Code: 60-1

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

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT146	1.1	TB	WI	Y	B	
2	↓	1.2	↓	↓	↓	↓	
3	↓	0.7	↓	↓	↓	↓	
4	↓	0.5	↓	↓	↓	↓	
5	↓	1.1	↓	↓	↓	↓	
6	↓	1.0	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: James Lund / 208 Date/Time: 9/27/13 / 0915

Issued by Dept. 6042 Management

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.