

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 11, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 10/07/2013

Group Number: 1424336

SDG: PEL95

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample Description

WS-014(1.5-2.0)100513 Filt Grab Surface Water
WS-014(5.5-6.0)100513 Filt Grab Surface Water
WS-012(1.5-2.0)100513 Filt Grab Surface Water
WS-012(5.0-5.5)100513 Filt Grab Surface Water
WS-010(1.5-2.0)100513 Filt Grab Surface Water
WS-010(3.5-4.0)100513 Filt Grab Surface Water
WS-006(0.5-1.0)100513 Filt Grab Surface Water
WS-006(0.5-1.0)100513MS Filt Grab Surface Water
WS-006(0.5-1.0)100513MSD Filt Grab Surface Water
WS-006(0.5-1.0)100513DUP Filt Grab Surface Water
WS-002(Surface)100513 Filt Grab Surface Water
WS-011(1.5-2.0)100513 Filt Grab Surface Water
WS-011(5.0-5.5)100513 Filt Grab Surface Water
WS-018(Surface)100513 Filt Grab Surface Water
WS-005(Surface)100513 Filt Grab Surface Water
WS-003(Surface)100513 Filt Grab Surface Water
WS-007(0.5-1.0)100513 Filt Grab Surface Water
WS-001(0.5-1.0)100513 Filt Grab Surface Water
WS-EB-82-100513 Filt Grab Water

Lancaster Labs (LL)

7227002
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7227020

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

ELECTRONIC ARCADIS

COPY TO

ELECTRONIC ARCADIS

COPY TO

ELECTRONIC ExxonMobil

Attn: Stephen Barrick

Attn: Lyndi Mott

Attn: Michael J. Firth

COPY TO		
ELECTRONIC	ARCADIS	Attn: Emily Leamer
COPY TO		
ELECTRONIC	ARCADIS	Attn: Rhiannon Parmalee
COPY TO		
ELECTRONIC	ARCADIS	Attn: Jamie Pritchard
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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 #: 1424336

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

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

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

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

Analysis Specific Comments:

No additional comments are necessary.

Sample Description: WS-014(1.5-2.0)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227002
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 08:40 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0514F SDG#: PEL95-01

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	0.0260	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	132811848001	10/10/2013 19:18	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 19:18	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 19:18	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 19:18	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 19:18	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 19:18	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 19:18	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 19:18	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/10/2013 19:18	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 04:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227003
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 08:50 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

05F15 SDG#: PEL95-02

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	0.0255	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	132811848001	10/10/2013 19:22	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 19:22	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 19:22	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 19:22	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 19:22	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 19:22	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 19:22	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 19:22	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/10/2013 19:22	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 04:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227004
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 09:00 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0512F SDG#: PEL95-03

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	0.0171	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	132811848001	10/11/2013 07:12	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 19:34	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 19:34	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 19:34	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 19:34	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 19:34	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 19:34	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 19:34	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/11/2013 07:12	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 04:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227005
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 09:10 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

05F12 SDG#: PEL95-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0174	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
SW-846 6010B						
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
SW-846 7470A						

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132811848001	10/11/2013 07:16	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 19:38	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 19:38	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 19:38	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 19:38	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 19:38	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 19:38	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 19:38	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/11/2013 07:16	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 04:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227006
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 09:40 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0510F SDG#: PEL95-05

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	0.0222	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132811848001	10/11/2013 07:20	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 19:42	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 19:42	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 19:42	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 19:42	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 19:42	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 19:42	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 19:42	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/11/2013 07:20	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 04:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227007
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 09:50 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

05F10 SDG#: PEL95-06

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	0.0221	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	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	132811848001	10/11/2013 07:24	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 19:46	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 19:46	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 19:46	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 19:46	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 19:46	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 19:46	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 19:46	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/11/2013 07:24	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 04:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227008
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 10:00 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0506F SDG#: PEL95-07BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0218	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	132811848001	10/10/2013 18:54	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 18:54	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 18:54	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 18:54	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 18:54	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 18:54	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 18:54	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 18:54	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/10/2013 18:54	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 04:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)100513MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227009
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 10:00 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0506F SDG#: PEL95-07MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	7440-38-2	mg/l	mg/l	mg/l	
07046	Barium	7440-39-3	0.153	0.0068	0.0200	1
07049	Cadmium	7440-43-9	2.08	0.00033	0.0050	1
07051	Chromium	7440-47-3	0.0518	0.00076	0.0050	1
07055	Lead	7440-47-3	0.208	0.0016	0.0150	1
07061	Nickel	7439-92-1	0.160	0.0047	0.0150	1
07036	Selenium	7440-02-0	0.533	0.0015	0.0100	1
07066	Silver	7782-49-2	0.157	0.0084	0.0200	1
07071	Vanadium	7440-22-4	0.0458	0.0021	0.0050	1
		7440-62-2	0.532	0.0020	0.0050	1
SW-846 7470A						
00259	Mercury	7439-97-6	mg/l	mg/l	mg/l	
			0.00098	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	132811848001	10/10/2013 19:06	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 19:06	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 19:06	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 19:06	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 19:06	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 19:06	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 19:06	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 19:06	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/10/2013 19:06	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 04:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)100513MSD Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227010
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 10:00 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0506F SDG#: PEL95-07MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	7440-38-2	mg/l	mg/l	mg/l	
07046	Barium	7440-39-3	0.154	0.0068	0.0200	1
07049	Cadmium	7440-43-9	2.07	0.00033	0.0050	1
07051	Chromium	7440-47-3	0.0521	0.00076	0.0050	1
07055	Lead	7439-92-1	0.211	0.0016	0.0150	1
07061	Nickel	7440-02-0	0.161	0.0047	0.0150	1
07036	Selenium	7440-02-0	0.533	0.0015	0.0100	1
07066	Silver	7782-49-2	0.155	0.0084	0.0200	1
07071	Vanadium	7440-22-4	0.0455	0.0021	0.0050	1
		7440-62-2	0.523	0.0020	0.0050	1
SW-846 7470A						
00259	Mercury	7439-97-6	mg/l	mg/l	mg/l	
			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	132811848001	10/10/2013 19:10	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 19:10	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 19:10	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 19:10	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 19:10	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 19:10	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 19:10	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 19:10	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/10/2013 19:10	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 04:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)100513DUP Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227011
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 10:00 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0506F SDG#: PEL95-07DUP

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	0.0219	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	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	132811848001	10/10/2013 19:02	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 19:02	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 19:02	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 19:02	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 19:02	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 19:02	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 19:02	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 19:02	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/10/2013 19:02	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 04:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227012
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 10:30 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0502F SDG#: PEL95-08

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	0.0232	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	132811848001	10/11/2013 07:28	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 19:50	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 19:50	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 19:50	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 19:50	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 19:50	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 19:50	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 19:50	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/11/2013 07:28	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 05:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227013
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 10:50 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0511F SDG#: PEL95-09

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	0.0197	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	132811848001	10/11/2013 07:32	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 19:54	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 19:54	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 19:54	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 19:54	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 19:54	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 19:54	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 19:54	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/11/2013 07:32	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 05:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227014
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 11:00 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

05F11 SDG#: PEL95-10

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	0.0204	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	132811848001	10/11/2013 07:36	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 19:58	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 19:58	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 19:58	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 19:58	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 19:58	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 19:58	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 19:58	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/11/2013 07:36	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 05:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-018(Surface)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227015
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 11:20 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0518F SDG#: PEL95-11

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	0.0269	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	132811848001	10/11/2013 07:40	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 20:02	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 20:02	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 20:02	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 20:02	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 20:02	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 20:02	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 20:02	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/11/2013 07:40	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 05:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227016
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 10:10 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0505F SDG#: PEL95-12

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	0.110	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.0026 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132811848001	10/11/2013 07:44	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 20:06	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 20:06	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 20:06	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 20:06	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/11/2013 07:44	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 20:06	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 20:06	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/11/2013 07:44	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 05:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-003(Surface)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227017
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 11:30 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0503F SDG#: PEL95-13

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	0.0202	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	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	132811848001	10/11/2013 07:48	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 20:10	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 20:10	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 20:10	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 20:10	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 20:10	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 20:10	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 20:10	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/11/2013 07:48	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 05:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227018
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 11:50 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0507F SDG#: PEL95-14

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	0.0047 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	0.0015 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	132811848001	10/11/2013 08:00	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 20:22	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 20:22	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 20:22	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 20:22	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/11/2013 08:00	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 20:22	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 20:22	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/11/2013 08:00	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 05:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)100513 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227019
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 12:00 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0501F SDG#: PEL95-15

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	0.0233	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	132811848001	10/11/2013 08:04	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 20:26	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 20:26	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 20:26	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 20:26	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 20:26	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 20:26	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 20:26	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/11/2013 08:04	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 05:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: WS-EB-82-100513 Filt Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227020
LL Group # 1424336
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/05/2013 12:30 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/11/2013 08:55

0582F SDG#: PEL95-16EB*

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	0.00063 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	132811848001	10/11/2013 08:08	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132811848001	10/10/2013 20:30	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	132811848001	10/10/2013 20:30	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	132811848001	10/10/2013 20:30	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	132811848001	10/10/2013 20:30	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	132811848001	10/10/2013 20:30	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	132811848001	10/10/2013 20:30	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848001	10/10/2013 20:30	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	132811848001	10/11/2013 08:08	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132815713003	10/10/2013 05:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848001	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713003	10/09/2013 15:10	Nelli S Markaryan	1

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

Quality Control SummaryClient Name: ExxonMobil c/o Arcadis
Reported: 10/11/13 at 08:55 AM

Group Number: 1424336

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: 132811848001	Sample number(s): 7227002-7227020								
Arsenic	N.D.	0.0068	0.0200	mg/l	103		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	102		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	103		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	103		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	108		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	106		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	102		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	91		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	104		90-110		
Batch number: 132815713003	Sample number(s): 7227002-7227020								
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: 132811848001	Sample number(s): 7227002-7227020 UNSPK: 7227008 BKG: 7227008								
Arsenic	102	102	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	103	102	78-118	1	20	0.0218	0.0219	1 (1)	20
Cadmium	104	104	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	104	105	76-120	1	20	N.D.	N.D.	0 (1)	20
Lead	107	108	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	107	107	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	105	103	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	92	91	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	106	105	90-117	2	20	N.D.	N.D.	0 (1)	20
Batch number: 132815713003	Sample number(s): 7227002-7227020 UNSPK: 7227008 BKG: 7227008								
Mercury	98	97	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.

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
Group # 1424336 Sample # 7227002-20
Instructions on reverse side correspond with circled numbers.

1 of 3

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only

Group # 14243686

Sample # 7227002-20

Instructions on reverse side correspond with circled numbers.

2 of 3

1 Client Information				4 Matrix		5 Analyses Requested										6 Remarks																																																																																																																																																																																																																																																											
Facility #/SID <u>Mayflower Pipeline Incident</u> Site Address <u>Mayflower, AR</u> ExxonMobil PM <u>Scott Bushroe</u> Consultant/Office <u>ARCADIS</u> Consultant PM <u>Steve Barrick</u> Consultant Phone # <u>919 302-6799</u> Sampler <u>Ryan Lewis / Dave Drost</u>				Sediment ☐ Ground ☐ Surface ☒ Potable ☐ NPDES ☐ Air ☐ Soil ☐ Water ☐ Oil ☐		Preservation Code H ☐ T ☐ N ☐ B ☐ S ☐ O ☐ H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other										SCR#: _____ Lab to filter and pressure dks. metals upon receipt																																																																																																																																																																																																																																																											
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7 Turnaround Time Requested (TAT) (please circle) Standard <u>5 day</u> 4 day 72 hour 48 hour 24 hour				Relinquished by <u>[Signature]</u> Date <u>10-6-13</u> Time <u>1600</u> Relinquished by _____ Date _____ Time _____ Relinquished by _____ Date _____ Time _____ Relinquished by Commercial Carrier UPS _____ FedEx _____ Other <u>Southwest</u> Temperature Upon Receipt <u>0.4-2.7°C</u>		Received by _____ Date _____ Time _____ Received by _____ Date _____ Time _____ Received by _____ Date _____ Time _____ Received by <u>Annelise H. Owen</u> Date <u>10/7/13</u> Time <u>1440</u> Custody Seals Intact? <u>Yes</u> No										9																																																																																																																																																																																																																																																											
8 Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____				EDD (circle if required) Locus EIM (default) Other _____																																																																																																																																																																																																																																																																							

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

Environmental Sample Administration
Receipt Documentation Log

1424336

Client/Project: Exxon Mobil: MayflowerShipping Container Sealed: YES NODate of Receipt: 10/7/13Custody Seal Present *: YES NOTime of Receipt: 1440

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

Source Code: 01Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT131	1.4	TB	WI	Y	B	
2	↓	1.7	↓	↓	↓	↓	
3	↓	0.8	↓	↓	↓	↓	
4	↓	2.7	↓	↓	↓	↓	
5	↓	1.6	↓	↓	↓	↓	
6	↓	2.1	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Anneliese H. Owen/210 Date/Time: 10/7/13 1510

Environmental Sample Administration
Receipt Documentation Log

1424336

Client/Project: Exxon Mobil: MayflowerShipping Container Sealed: YES NODate of Receipt: 10/7/13Custody Seal Present *: YES NOTime of Receipt: 1440* Custody seal was intact unless otherwise noted in the
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7	DT121	1.8	TB	WI	Y	B	
8		1.2					
9		1.0					
10		1.5					
11		0.4					
12		1.7					

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Anne H. Owen / 210 Date/Time: 10/7/13 1510

Explanation of Symbols and Abbreviations

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

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

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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

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