

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 12, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 10/07/2013

Group Number: 1424339

SDG: PEL97

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LL) #

WS-014(1.5-2.0)100613 Filt Grab Surface Water	7227054
WS-014(5.5-6.0)100613 Filt Grab Surface Water	7227055
WS-012(1.5-2.0)100613 Filt Grab Surface Water	7227056
WS-012(5.0-5.5)100613 Filt Grab Surface Water	7227057
WS-010(1.5-2.0)100613 Filt Grab Surface Water	7227058
WS-010(3.5-4.0)100613 Filt Grab Surface Water	7227059
WS-006(0.5-1.0)100613 Filt Grab Surface Water	7227060
WS-005(Surface)100613 Filt Grab Surface Water	7227061
WS-002(Surface)100613 Filt Grab Surface Water	7227062
WS-011(1.5-2.0)100613 Filt Grab Surface Water	7227063
WS-011(5.0-5.5)100613 Filt Grab Surface Water	7227064
WS-018(Surface)100613 Filt Grab Surface Water	7227065
WS-003(Surface)100613 Filt Grab Surface Water	7227066
WS-007(0.5-1.0)100613 Filt Grab Surface Water	7227067
WS-001(0.5-1.0)100613 Filt Grab Surface Water	7227068
DUP-WS-98-100613 Filt Grab Surface Water	7227069
WS-EB-83-100613 Filt Grab Water	7227070

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

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ELECTRONIC	ARCADIS	Attn: Rhiannon Parmalee
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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 #: 1424339

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.

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Sample Description: WS-014(1.5-2.0)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227054
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 08:30 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

0614F SDG#: PEL97-01

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	0.0232	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	132811848002	10/10/2013 22:26	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 22:26	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 22:26	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 22:26	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 22:26	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 22:26	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 12:54	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 22:26	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 22:26	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 05:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	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)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227055
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 08:40 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

06F14 SDG#: PEL97-02

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	0.0234	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132811848002	10/10/2013 22:30	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 22:30	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 22:30	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 22:30	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 22:30	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 22:30	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 12:58	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 22:30	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 22:30	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 05:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	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)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227056
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 08:55 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

0612F SDG#: PEL97-03

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	0.0560	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	132811848002	10/10/2013 22:42	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 22:42	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 22:42	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 22:42	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 22:42	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 22:42	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 13:10	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 22:42	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 22:42	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 05:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	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)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227057
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 09:00 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

06F12 SDG#: PEL97-04

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	0.0183	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 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	132811848002	10/10/2013 22:46	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 22:46	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 22:46	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 22:46	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 22:46	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 22:46	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 13:14	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 22:46	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 22:46	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 05:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	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)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227058
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 09:20 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

0610F SDG#: PEL97-05

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	0.0214	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132811848002	10/10/2013 22:50	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 22:50	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 22:50	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 22:50	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 22:50	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 22:50	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 13:18	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 22:50	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 22:50	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 05:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	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)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227059
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 09:25 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

06F10 SDG#: PEL97-06

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	0.0213	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	132811848002	10/10/2013 22:54	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 22:54	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 22:54	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 22:54	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 22:54	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 22:54	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 13:22	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 22:54	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 22:54	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 05:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	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)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227060
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 09:35 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

0606F SDG#: PEL97-07

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	0.0190	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	132811848002	10/10/2013 22:02	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 22:02	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 22:02	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 22:02	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 22:02	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 22:02	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 12:30	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 22:02	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 22:02	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 05:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	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)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227061
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 10:00 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

0605F SDG#: PEL97-08

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	0.0211	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	132811848002	10/10/2013 22:58	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 22:58	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 22:58	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 22:58	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 22:58	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 22:58	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 13:26	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 22:58	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 22:58	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 05:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	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)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227062
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 10:40 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

0602F SDG#: PEL97-09

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	0.0224	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	132811848002	10/10/2013 23:02	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 23:02	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 23:02	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 23:02	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 23:02	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 23:02	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 13:30	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 23:02	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 23:02	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 05:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	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)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227063
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 10:25 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

0611F SDG#: PEL97-10

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	0.0207	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	132811848002	10/10/2013 23:06	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 23:06	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 23:06	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 23:06	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 23:06	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 23:06	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 13:34	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 23:06	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 23:06	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 05:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	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)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227064
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 10:30 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

06F11 SDG#: PEL97-11

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	0.0204	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	132811848002	10/10/2013 23:10	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 23:10	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 23:10	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 23:10	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 23:10	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 23:10	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 13:38	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 23:10	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 23:10	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 06:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	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)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227065
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 10:55 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

0618F SDG#: PEL97-12

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	0.0368	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	132811848002	10/10/2013 23:14	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 23:14	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 23:14	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 23:14	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 23:14	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 23:14	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 13:42	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 23:14	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 23:14	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 06:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	10/09/2013 15:10	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)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227066
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 11:05 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

0603F SDG#: PEL97-13

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	0.0225	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	132811848002	10/10/2013 23:18	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 23:18	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 23:18	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 23:18	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 23:18	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 23:18	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 13:46	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 23:18	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 23:18	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 06:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	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)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227067
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 11:20 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

0607F SDG#: PEL97-14

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	0.0210	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	132811848002	10/10/2013 23:30	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 23:30	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 23:30	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 23:30	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 23:30	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 23:30	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 13:58	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 23:30	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 23:30	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 06:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	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)100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227068
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 11:30 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

0601F SDG#: PEL97-15

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	0.0212	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	132811848002	10/10/2013 23:33	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 23:33	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 23:33	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 23:33	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 23:33	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 23:33	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 14:02	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 23:33	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 23:33	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 06:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: DUP-WS-98-100613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7227069
LL Group # 1424339
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/06/2013 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

0698F SDG#: PEL97-16FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0193	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	132811848002	10/10/2013 23:37	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 23:37	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 23:37	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 23:37	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 23:37	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 23:37	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 14:06	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 23:37	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 23:37	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 06:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	10/09/2013 15:10	Nelli S Markaryan	1

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

Sample Description: **WS-EB-83-100613 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7227070**
 LL Group # **1424339**
 Account # **14739**

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

Collected: 10/06/2013 12:00 by RL

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

Submitted: 10/07/2013 14:40

Reported: 10/12/2013 05:47

0683F SDG#: PEL97-17EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0037 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	132811848002	10/10/2013 23:41	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132811848002	10/10/2013 23:41	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132811848002	10/10/2013 23:41	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132811848002	10/10/2013 23:41	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132811848002	10/10/2013 23:41	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132811848002	10/10/2013 23:41	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132811848002	10/11/2013 14:10	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	132811848002	10/10/2013 23:41	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132811848002	10/10/2013 23:41	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132815713004	10/10/2013 06:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132811848002	10/08/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132815713004	10/09/2013 15:10	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: 10/12/13 at 05:47 AM

Group Number: 1424339

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: 132811848002	Sample number(s): 7227054-7227070								
Arsenic	N.D.	0.0068	0.0200	mg/l	106		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	105		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	102		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	110		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	106		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	106		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	93		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	104		90-110		
Batch number: 132815713004	Sample number(s): 7227054-7227070								
Mercury	N.D.	0.00006	0.00020	mg/l	101		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: 132811848002	Sample number(s): 7227054-7227070 UNSPK: 7227060 BKG: 7227060								
Arsenic	109	105	81-123	4	20	N.D.	N.D.	0 (1)	20
Barium	102	101	78-118	0	20	0.0190	0.0190	0 (1)	20
Cadmium	104	103	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	103	102	76-120	1	20	N.D.	N.D.	0 (1)	20
Lead	108	110	75-125	2	20	N.D.	N.D.	0 (1)	20
Nickel	105	105	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	108	103	75-125	5	20	N.D.	N.D.	0 (1)	20
Silver	95	91	75-125	4	20	N.D.	N.D.	0 (1)	20
Vanadium	105	105	90-117	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132815713004	Sample number(s): 7227054-7227070 UNSPK: 7227059 BKG: 7227059								
Mercury	95	98	80-120	3	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 # 1424339

Sample # 7227054-70

2 of 3

Instructions on reverse side correspond with circled numbers.

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 <input type="checkbox"/> Oil	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>					Total # of Containers <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">H</td> <td style="width: 10%;">VOCs</td> <td style="width: 10%;">PAH</td> <td style="width: 10%;">RCRA Metals</td> <td style="width: 10%;">Diss Metals</td> <td style="width: 10%;">HEM</td> <td style="width: 10%;">Oil & Grease</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td>8260B</td> <td>8720 SIM</td> <td>Heavy Metals</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						H	VOCs			PAH	RCRA Metals	Diss Metals	HEM	Oil & Grease						8260B	8720 SIM	Heavy Metals							
H	VOCs	PAH									RCRA Metals	Diss Metals			HEM	Oil & Grease																		
	8260B	8720 SIM									Heavy Metals																							
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE																																
Consultant/Office <u>ARCADIS</u>																																		
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919 302-6799</u>																																
Sampler <u>Ryan Lewis / Dave Drost</u>																																		
2 Sample Identification			3 Grab Composite																															
		Collected																																
		Date	Time																															
<u>WS-005 (Surface) 100513</u>		<u>10-5-2013</u>	<u>1010</u>	<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<u>WS-003 (Surface) 100513</u>		<u>10-5-2013</u>	<u>1130</u>	<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<u>WS-007 (0.5-1.0) 100513</u>		<u>10-5-2013</u>	<u>1150</u>	<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<u>WS-001 (0.5-1.0) 100513</u>		<u>10-5-2013</u>	<u>1200</u>	<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<u>WS-EB-82-100513</u>		<u>10-5-2013</u>	<u>1230</u>	<input checked="" type="checkbox"/>		<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<u>WS-014 (1.5-2.0) 100613</u>		<u>10-6-2013</u>	<u>0830</u>	<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<u>WS-014 (5.5-6.0) 100613</u>		<u>10-6-2013</u>	<u>0840</u>	<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<u>WS-012 (1.5-2.0) 100613</u>		<u>10-6-2013</u>	<u>0855</u>	<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<u>WS-012 (5.0-5.5) 100613</u>		<u>10-6-2013</u>	<u>0900</u>	<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<u>WS-010 (1.5-2.0) 100613</u>		<u>10-6-2013</u>	<u>0920</u>	<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<u>WS-010 (3.5-4.0) 100613</u>		<u>10-6-2013</u>	<u>0925</u>	<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<u>WS-006 (0.5-1.0) 100613</u>		<u>10-6-2013</u>	<u>0935</u>	<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
7 Turnaround Time Requested (TAT) (please circle)					Relinquished by <u>[Signature]</u>		Date <u>10-6-13</u>	Time <u>1600</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																						
					Relinquished by Commercial Carrier		Date	Time	Received by		Date	Time																						
8 Data Package (circle if required)					UPS FedEx Other <u>Southwest</u>		Temperature Upon Receipt <u>0.4-2.7°C</u>		Custody Seals Intact? <u>Yes</u> No		Date <u>10/7/13</u>		Time <u>1440</u>																					
Type I - Full		Type VI (Raw Data)		NJ Reduced		Other		EDD (circle if required)		Locus EIM (default)		Other																						

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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 # 1424339 Sample # 7227054-70

Instructions on reverse side correspond with circled numbers.

3 of 3

1 Client Information				4 Matrix				5 Analyses Requested											SCR#: _____					
Facility #/SID <u>Mayflower Pipeline Incident</u>				Soil	Water	Oil	Total # of Containers	Preservation Code												Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other				
Site Address <u>Mayflower, AR</u>								<input type="checkbox"/> Sediment	<input type="checkbox"/> Potable	<input type="checkbox"/> Ground	<input checked="" type="checkbox"/> Surface	H	H	N	H									
ExxonMobil PM <u>Scott Bushroa</u>		Cost Center/AFE		<input type="checkbox"/> NPDES	<input type="checkbox"/> Air	VOCs 8260 B	PAH 8210 SIM													RCRA Metals ^{Thyrgines, Ni, V, Co, Pb}				
Consultant/Office <u>ARCADIS</u>				<input type="checkbox"/> NPDES	<input type="checkbox"/> Air																			
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919-302-6799</u>		<input type="checkbox"/> Grab	<input type="checkbox"/> Composite																			
2 Sample Identification				3 Collected		Grab	Composite	Soil	Water	Oil	Total # of Containers	VOCs 8260 B	PAH 8210 SIM	RCRA Metals ^{Thyrgines, Ni, V, Co, Pb}	Diss Metals	HEM Oil & Grease								
				Date	Time																			
WS-005 (Surface) 100613				<u>10-6-2013</u>	<u>1000</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
WS-002 (Surface) 100613				<u>10-6-2013</u>	<u>1040</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
WS-011 (1.5-2.0) 100613				<u>10-6-2013</u>	<u>1025</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
WS-011 (5.0-5.5) 100613				<u>10-6-2013</u>	<u>1030</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
WS-018 (Surface) 100613				<u>10-6-2013</u>	<u>1055</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
WS-003 (Surface) 100613				<u>10-6-2013</u>	<u>1105</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
WS-007 (0.5-1.0) 100613				<u>10-6-2013</u>	<u>1120</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
WS-001 (0.5-1.0) 100613				<u>10-6-2013</u>	<u>1130</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
DUP-WS-98-100613				<u>10-6-2013</u>	—	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
WS-EB-83-100613				<u>10-6-2013</u>	<u>1200</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
WS-TB-169-100613				<u>10-6-2013</u>	—	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>													

7 Turnaround Time Requested (TAT) (please circle)

Standard 5 day 4 day

72 hour 48 hour 24 hour

Relinquished by <u>[Signature]</u>	Date <u>10-6-13</u>	Time <u>1600</u>	Received by	Date	Time	9
Relinquished by	Date	Time	Received by	Date	Time	
Relinquished by	Date	Time	Received by	Date	Time	

8 Data Package (circle if required)

Type I - Full Type VI (Raw Data)

NJ Reduced Other _____

EDD (circle if required)

Locus EIM (default)

Other _____

Relinquished by Commercial Carrier	Received by <u>Annalisa H. Owen</u>	Date <u>10/2/13</u>	Time <u>1440</u>
UPS _____ FedEx _____ Other <u>Southwest</u>	Temperature Upon Receipt <u>0.4-2.7 °C</u>		
Custody Seals Intact? Yes		No	

6-1424339
Environmental Sample Administration
Receipt Documentation Log

Client/Project: Exxon Mobil: Mayflower
 Date of Receipt: 10/2/13
 Time of Receipt: 1440
 Source Code: 01

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	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#: Annalisa H. Owen/210 Date/Time: 10/2/13 1510

G-1424339

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Exxon Mobil: Mayflower
 Date of Receipt: 10/7/13
 Time of Receipt: 1440
 Source Code: 01

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
7A	DT121	1.8	TB	WI	Y	B	
8A	↓	1.2	↓	↓	↓	↓	
9A	↓	1.0	↓	↓	↓	↓	
10A	↓	1.5	↓	↓	↓	↓	
11A	↓	0.4	↓	↓	↓	↓	
12A	↓	1.7	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Anneise 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 limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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

ppb parts per billion

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

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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

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