

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

September 23, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 09/18/2013

Group Number: 1419620

SDG: PEL56

PO Number: B0086003.1301

State of Sample Origin: AR

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
WS-014(1.5-2.0)091713 Filt Grab Surface Water	7201742
WS-014(5.5-6.0)091713 Filt Grab Surface Water	7201743
WS-012(1.5-2.0)091713 Filt Grab Surface Water	7201744
WS-012(5.0-5.5)091713 Filt Grab Surface Water	7201745
WS-010(1.5-2.0)091713 Filt Grab Surface Water	7201746
WS-010(3.5-4.0)091713 Filt Grab Surface Water	7201747
WS-006(0.5-1.0)091713 Filt Grab Surface Water	7201748
WS-006(0.5-1.0)091713MS Filt Grab Surface Water	7201749
WS-006(0.5-1.0)091713MSD Filt Grab Surface Water	7201750
WS-006(0.5-1.0)091713DUP Filt Grab Surface Water	7201751
WS-005(Surface)091713 Filt Grab Surface Water	7201752
WS-002(Surface)091713 Filt Grab Surface Water	7201753
WS-011(1.5-2.0)091713 Filt Grab Surface Water	7201754
WS-011(5.0-5.5)091713 Filt Grab Surface Water	7201755
WS-018(Surface)091713 Filt Grab Surface Water	7201756
WS-003(Surface)091713 Filt Grab Surface Water	7201757
WS-007(0.5-1.0)091713 Filt Grab Surface Water	7201758
WS-001(0.5-1.0)091713 Filt Grab Surface Water	7201759
WS-EB-64-091713 Filt Grab Water	7201760

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

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ELECTRONIC	ARCADIS	Attn: Jamie Pritchard
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ELECTRONIC	ExxonMobil	Attn: Michael L Sixsmith
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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 #: 1419620

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)091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201742
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 09:00 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1714F SDG#: PEL56-01

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	0.0178	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	132611848005	09/20/2013 00:01	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 13:19	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 00:01	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 00:01	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 00:01	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 00:01	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 00:01	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 00:01	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 00:01	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201743
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 09:10 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

17F14 SDG#: PEL56-02

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	0.0179	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	132611848005	09/20/2013 00:04	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 13:23	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 00:04	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 00:04	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 00:04	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 00:04	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 00:04	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 00:04	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 00:04	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201744
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 09:25 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1712F SDG#: PEL56-03

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	0.0193	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	132611848005	09/20/2013 00:16	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 13:35	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 00:16	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 00:16	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 00:16	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 00:16	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 00:16	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 00:16	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 00:16	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201745
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 09:35 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

17F12 SDG#: PEL56-04

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	0.0204	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	132611848005	09/20/2013 00:20	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 13:39	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 00:20	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 00:20	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 00:20	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 00:20	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 00:20	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 00:20	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 00:20	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201746
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 10:05 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1710F SDG#: PEL56-05

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	0.0220	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	132611848005	09/20/2013 00:23	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 13:43	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 00:23	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 00:23	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 00:23	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 00:23	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 00:23	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 00:23	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 00:23	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201747
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 10:15 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

17F10 SDG#: PEL56-06

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	0.0220	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	132611848005	09/20/2013 00:27	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 13:47	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 00:27	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 00:27	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 00:27	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 00:27	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 00:27	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 00:27	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 00:27	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

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Sample Description: WS-006(0.5-1.0)091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201748
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 10:30 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1706F SDG#: PEL56-07BKG

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	0.0210	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	132611848005	09/19/2013 23:38	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 12:55	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/19/2013 23:38	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/19/2013 23:38	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/19/2013 23:38	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/19/2013 23:38	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/19/2013 23:38	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/19/2013 23:38	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/19/2013 23:38	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)091713MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201749
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 10:30 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1706F SDG#: PEL56-07MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.162	0.0068	0.0200	1
07046	Barium	7440-39-3	2.11	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0533	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.210	0.0016	0.0150	1
07055	Lead	7439-92-1	0.166	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.543	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.161	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0481	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.533	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0010	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	132611848005	09/19/2013 23:49	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 13:07	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/19/2013 23:49	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 13:07	Deborah A Krady	1
07055	Lead	SW-846 6010B	1	132611848005	09/19/2013 23:49	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/19/2013 23:49	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/19/2013 23:49	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 13:07	Deborah A Krady	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 13:07	Deborah A Krady	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)091713MSD Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201750
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 10:30 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1706F SDG#: PEL56-07MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.160	0.0068	0.0200	1
07046	Barium	7440-39-3	2.11	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0533	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.210	0.0016	0.0150	1
07055	Lead	7439-92-1	0.164	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.545	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.157	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0477	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.531	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0010	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	132611848005	09/19/2013 23:53	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 13:11	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/19/2013 23:53	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 13:11	Deborah A Krady	1
07055	Lead	SW-846 6010B	1	132611848005	09/19/2013 23:53	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/19/2013 23:53	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/19/2013 23:53	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 13:11	Deborah A Krady	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 13:11	Deborah A Krady	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)091713DUP Filtr Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201751
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 10:30 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1706F SDG#: PEL56-07DUP

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	0.0207	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	132611848005	09/19/2013 23:45	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 13:03	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/19/2013 23:45	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/19/2013 23:45	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/19/2013 23:45	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/19/2013 23:45	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/19/2013 23:45	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/19/2013 23:45	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/19/2013 23:45	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-005 (Surface) 091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201752
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 11:00 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1705F SDG#: PEL56-08

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	0.0511	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	132611848005	09/20/2013 00:31	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 13:51	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 00:31	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 00:31	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 00:31	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 00:31	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 00:31	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 00:31	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 00:31	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-002 (Surface) 091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201753
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 11:20 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1702F SDG#: PEL56-09

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	0.0188	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132611848005	09/20/2013 00:35	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 13:55	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 00:35	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 00:35	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 00:35	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 00:35	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 00:35	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 00:35	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 00:35	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201754
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 11:30 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1711F SDG#: PEL56-10

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	0.0225	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	132611848005	09/20/2013 00:39	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 13:59	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 00:39	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 00:39	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 00:39	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 00:39	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 00:39	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 00:39	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 00:39	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201755
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 11:40 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

17F11 SDG#: PEL56-11

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	0.0223	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132611848005	09/20/2013 00:43	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 14:03	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 00:43	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 00:43	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 00:43	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 00:43	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 00:43	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 00:43	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 00:43	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-018 (Surface) 091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201756
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 12:10 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1718F SDG#: PEL56-12

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	0.0376	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	132611848005	09/20/2013 00:46	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 14:07	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 00:46	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 00:46	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 00:46	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 00:46	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 00:46	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 00:46	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 00:46	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-003 (Surface) 091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201757
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 12:20 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1703F SDG#: PEL56-13

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	132611848005	09/20/2013 00:50	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 14:11	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 00:50	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 00:50	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 00:50	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 00:50	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 00:50	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 00:50	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 00:50	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201758
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 12:30 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1707F SDG#: PEL56-14

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	0.0213	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	132611848005	09/20/2013 01:02	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 01:02	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 01:02	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 01:02	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 01:02	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 01:02	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 01:02	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 01:02	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 01:02	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)091713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7201759
LL Group # 1419620
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/17/2013 12:40 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1701F SDG#: PEL56-15

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	0.0143	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	132611848005	09/20/2013 01:05	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 01:05	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 01:05	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 01:05	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 01:05	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 01:05	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 01:05	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 01:05	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 01:05	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Sample Description: **WS-EB-64-091713 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7201760**
 LL Group # **1419620**
 Account # **14739**

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

Collected: 09/17/2013 13:30 by DD

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

Submitted: 09/18/2013 10:00

Reported: 09/23/2013 14:03

1764F SDG#: PEL56-16EB*

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

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132611848005	09/20/2013 01:09	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132611848005	09/20/2013 01:09	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132611848005	09/20/2013 01:09	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132611848005	09/20/2013 01:09	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132611848005	09/20/2013 01:09	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132611848005	09/20/2013 01:09	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132611848005	09/20/2013 01:09	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132611848005	09/20/2013 01:09	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132611848005	09/20/2013 01:09	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132625713004	09/22/2013 07:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132611848005	09/18/2013 23:50	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132625713004	09/20/2013 16:00	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 09/23/13 at 02:03 PM

Group Number: 1419620

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: 132611848005	Sample number(s): 7201742-7201760								
Arsenic	N.D.	0.0068	0.0200	mg/l	106		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	105		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	107		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	106		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	110		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	109		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	104		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	96		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	105		90-110		
Batch number: 132625713004	Sample number(s): 7201742-7201760								
Mercury	N.D.	0.00006	0.00020	mg/l	106		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: 132611848005	Sample number(s): 7201742-7201760 UNSPK: 7201748 BKG: 7201748								
Arsenic	108	107	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	105	105	78-118	0	20	0.0210	0.0207	1 (1)	20
Cadmium	107	107	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	105	105	81-120	0	20	N.D.	N.D.	0 (1)	20
Lead	110	110	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	109	109	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	108	105	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	96	95	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	107	106	90-111	0	20	N.D.	N.D.	0 (1)	20
Batch number: 132625713004	Sample number(s): 7201742-7201760 UNSPK: 7201748 BKG: 7201748								
Mercury	101	102	80-120	1	20	N.D.	N.D.	0 (1)	20

*- Outside of specification

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

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

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

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only

Group # 1419620

Sample # 7201742-60

Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information				4 Matrix				5 Analyses Requested								SCR#: _____				
Facility #/SID <u>MAYFLOWER Pipeline Incident</u>				Sediment <input type="checkbox"/>	Ground <input type="checkbox"/>	Surface <input checked="" type="checkbox"/>	Preservation Code													
Site Address <u>MAYFLOWER, AL</u>							Potable <input type="checkbox"/>	NPDES <input type="checkbox"/>	H	N	H							6 Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		
ExxonMobil PM <u>SCOTT Bushroe</u>		Cost Center/AFE		Oil <input type="checkbox"/>	Total # of Containers			VOCs 8260B PAH 8270 SIM PCRA Metals + Ni, V, Cr, Mn Diss. Metals HEM Oil & Grease								6 Remarks Lab to filter and pressure diss. metals upon receipt.				
Consultant/Office <u>ARCANIS</u>				Soil <input type="checkbox"/>	Water	Air <input type="checkbox"/>														
Consultant PM <u>STEVE BARRICK</u>		Consultant Phone # <u>919-302-6799</u>		Composite																
Sampler <u>DANA DOST / HANS VAN ALICE</u>				Grab	Composite															
2 Sample Identification		3 Collected		Grab	Composite															
		Date	Time			Soil	Water	Oil												
WS-014 (1.5-2.0)		091713	9.17.13	0900	X		X		9	X	X	X	X	X						
WS-014 (5.5-6.0)		091713		0910	X		X		9	X	X	X	X	X						
WS-012 (1.5-2.0)		091713		0925	X		X		9	X	X	X	X	X						
WS-012 (5.0-5.5)		091713		0935	X		X		9	X	X	X	X	X						
WS-010 (1.5-2.0)		091713		1005	X		X		9	X	X	X	X	X						
WS-010 (3.5-4.0)		091713		1015	X		X		9	X	X	X	X	X						
WS-006 (0.5-1.0)		091713		1030	X		X		9	X	X	X	X	X						
WS-005 (Surface)		091713		1100	X		X		9	X	X	X	X	X						
WS-002 (Surface)		091713		1120	X		X		9	X	X	X	X	X						
WS-011 (1.5-2.0)		091713		1130	X		X		9	X	X	X	X	X						
WS-011 (5.0-5.5)		091713		1140	X		X		9	X	X	X	X	X						
WS-018 (Surface)		091713	↓	1210	X		X		9	X	X	X	X	X						

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by <u>[Signature]</u>		Date	Time	Received by		Date	Time	9
Standard	<u>5 day</u>	4 day			9.17.13	1500					
72 hour	48 hour	24 hour									
			Relinquished by		Date	Time	Received by		Date	Time	
			Relinquished by		Date	Time	Received by		Date	Time	
8 Data Package (circle if required)			EDD (circle if required)		Relinquished by Commercial Carrier			Received by		Date	Time
Type I - Full	Type VI (Raw Data)	NJ Reduced	Type I - Full	Locus EIM (default)	UPS <input checked="" type="checkbox"/> FedEx Other			<u>[Signature]</u>		9/18/13	1000
Other			Other		Temperature Upon Receipt <u>0.3-2.4°C</u>			Custody Seals Intact?		<u>Yes</u>	No

Environmental Sample Administration
Receipt Documentation Log

1419620

Client/Project: Mayflowes
Date of Receipt: 9/18/13
Time of Receipt: 1000
Source Code: 60-1

Shipping Container Sealed: YES NO

Custody Seal Present *: YES NO

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

Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT146	0.3	TB	WI	Y	B	
2	↓	1.6	↓	↓	↓	↓	
3	↓	0.9	↓	↓	↓	↓	
4	↓	2.4	↓	↓	↓	↓	
5	↓	1.3	↓	↓	↓	↓	
6	↓	2.1	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Cash 3647 Date/Time: 9/18/13 1030

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

ppb parts per billion

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

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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

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