

ANALYTICAL RESULTS

Prepared by:

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Lancaster, PA 17601

Prepared for:

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

September 11, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 09/05/2013

Group Number: 1416501

SDG: PEL26

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample DescriptionLancaster Labs (LL) #

WS-014(1.5-2.0)090413 Filt Grab Surface Water	7186267
WS-014(5.5-6.0)090413 Filt Grab Surface Water	7186268
WS-012(1.5-2.0)090413 Filt Grab Surface Water	7186269
WS-012(5.0-5.5)090413 Filt Grab Surface Water	7186270
WS-010(1.5-2.0)090413 Filt Grab Surface Water	7186271
WS-010(3.5-4.0)090413 Filt Grab Surface Water	7186272
WS-006(0.5-1.0)090413 Filt Grab Surface Water	7186273
WS-005(Surface)090413 Filt Grab Surface Water	7186274
WS-002(Surface)090413 Filt Grab Surface Water	7186275
WS-011(1.5-2.0)090413 Filt Grab Surface Water	7186276
WS-011(5.0-5.5)090413 Filt Grab Surface Water	7186277
WS-018(Surface)090413 Filt Grab Surface Water	7186278
WS-003(Surface)090413 Filt Grab Surface Water	7186279
WS-007(0.5-1.0)090413 Filt Grab Surface Water	7186280
WS-001(0.5-1.0)090413 Filt Grab Surface Water	7186281
WS-EB-051-090413 Filt Grab Water	7186282
DUP-WS-82-090413 Filt Grab Surface Water	7186283

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
COPY TO		
ELECTRONIC	ExxonMobil	Attn: Michael L Sixsmith
COPY TO		
ELECTRONIC	ExxonMobil	Attn: Julie Foster
COPY TO		

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1416501

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.

Sample Description: WS-014(1.5-2.0)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186267
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 08:50 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

0414F SDG#: PEL26-01

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	0.0078	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.0015 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132501848002	09/10/2013 12:07	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 12:07	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 12:07	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 12:07	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 12:07	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 12:07	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 12:07	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 12:07	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 12:07	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 07:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-014(5.5-6.0)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186268
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 09:00 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

04F14 SDG#: PEL26-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0064	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
SW-846 6010B						
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
SW-846 7470A						

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132501848002	09/10/2013 12:11	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 12:11	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 12:11	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 12:11	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 12:11	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 12:11	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 12:11	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 12:11	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 12:11	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 07:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-012(1.5-2.0)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186269
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 09:20 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

0412F SDG#: PEL26-03

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	0.0102	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	132501848002	09/10/2013 12:23	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 12:23	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 12:23	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 12:23	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 12:23	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 12:23	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 12:23	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 12:23	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 12:23	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 07:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-012(5.0-5.5)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186270
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 09:30 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

04F12 SDG#: PEL26-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	SW-846 6010B 7440-38-2	mg/l N.D.	mg/l 0.0068	mg/l 0.0200	1
07046	Barium	7440-39-3	0.0168	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						
00259	Mercury	7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 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	132501848002	09/10/2013 12:28	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 12:28	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 12:28	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 12:28	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 12:28	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 12:28	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 12:28	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 12:28	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 12:28	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 07:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-010(1.5-2.0)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186271
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 09:45 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

0410F SDG#: PEL26-05

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	0.0249	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	132501848002	09/10/2013 12:32	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 12:32	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 12:32	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 12:32	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 12:32	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 12:32	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 12:32	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 12:32	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 12:32	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 07:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-010(3.5-4.0)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186272
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 09:55 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

04F10 SDG#: PEL26-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	7440-38-2	0.0078 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0360	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
SW-846 6010B						
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
SW-846 7470A						

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132501848002	09/10/2013 12:36	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 12:36	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 12:36	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 12:36	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 12:36	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 12:36	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 12:36	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 12:36	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 12:36	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 07:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-006(0.5-1.0)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186273
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 10:10 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

0406F SDG#: PEL26-07

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	0.0087	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.0017 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132501848002	09/10/2013 12:40	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 12:40	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 12:40	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 12:40	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 12:40	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 12:40	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 12:40	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 12:40	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 12:40	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 07:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-005(Surface)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186274
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 10:55 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

0405F SDG#: PEL26-08

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	0.0137	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	132501848002	09/10/2013 12:44	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 12:44	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 12:44	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 12:44	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 12:44	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 12:44	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 12:44	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 12:44	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 12:44	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 07:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-002(Surface)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186275
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 11:30 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

0402F SDG#: PEL26-09

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	0.0102	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	132501848002	09/10/2013 12:48	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 12:48	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 12:48	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 12:48	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 12:48	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 12:48	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 12:48	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 12:48	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 12:48	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 08:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-011(1.5-2.0)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186276
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 11:45 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

0411F SDG#: PEL26-10

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	0.0094	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	132501848002	09/10/2013 12:52	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 12:52	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 12:52	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 12:52	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 12:52	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 12:52	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 12:52	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 12:52	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 12:52	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 08:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-011(5.0-5.5)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186277
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 11:55 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

04F11 SDG#: PEL26-11

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	0.0076 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0079	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	132501848002	09/10/2013 12:56	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 12:56	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 12:56	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 12:56	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 12:56	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 12:56	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 12:56	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 12:56	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 12:56	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 08:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-018(Surface)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186278
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 12:20 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

0418F SDG#: PEL26-12

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	0.0081 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0571	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	132501848002	09/10/2013 13:00	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 13:00	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 13:00	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 13:00	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 13:00	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 13:00	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 13:00	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 13:00	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 13:00	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 08:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-003(Surface)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186279
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 12:30 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

0403F SDG#: PEL26-13

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	0.0072	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	132501848002	09/10/2013 13:12	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 13:12	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 13:12	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 13:12	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 13:12	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 13:12	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 13:12	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 13:12	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 13:12	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 08:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-007(0.5-1.0)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186280
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 12:40 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

0407F SDG#: PEL26-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0123	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
SW-846 6010B						
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
SW-846 7470A						

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132501848002	09/10/2013 13:17	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 13:17	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 13:17	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 13:17	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 13:17	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 13:17	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 13:17	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 13:17	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 13:17	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 08:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-001(0.5-1.0)090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186281
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 13:00 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

0401F SDG#: PEL26-15

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	0.0128	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	132501848002	09/10/2013 11:42	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 11:42	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 11:42	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 11:42	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 11:42	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 11:42	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 11:42	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 11:42	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 11:42	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 08:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: WS-EB-051-090413 Filt Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186282
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 14:00 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

0451F SDG#: PEL26-16EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	SW-846 6010B 7440-38-2	mg/l N.D.	mg/l 0.0068	mg/l 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						
00259	Mercury	7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 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	132501848002	09/10/2013 13:21	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 13:21	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 13:21	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 13:21	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 13:21	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 13:21	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 13:21	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 13:21	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 13:21	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 08:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Sample Description: DUP-WS-82-090413 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7186283
LL Group # 1416501
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/04/2013 by HVA

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

Submitted: 09/05/2013 09:40

Reported: 09/11/2013 05:31

0482F SDG#: PEL26-17FD*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0071 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0086	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132501848002	09/10/2013 13:25	Eric L Eby	1
07046	Barium	SW-846 6010B	1	132501848002	09/10/2013 13:25	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	132501848002	09/10/2013 13:25	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	132501848002	09/10/2013 13:25	Eric L Eby	1
07055	Lead	SW-846 6010B	1	132501848002	09/10/2013 13:25	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	132501848002	09/10/2013 13:25	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	132501848002	09/10/2013 13:25	Eric L Eby	1
07066	Silver	SW-846 6010B	1	132501848002	09/10/2013 13:25	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	132501848002	09/10/2013 13:25	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	132495713003	09/09/2013 08:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132501848002	09/09/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132495713003	09/07/2013 07:40	Damary Valentin	1

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 09/11/13 at 05:31 AM

Group Number: 1416501

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: 132495713003	Sample number(s): 7186267-7186283								
Mercury	N.D.	0.00006	0.00020	mg/l	105		80-120		
		0							
Batch number: 132501848002	Sample number(s): 7186267-7186283								
Arsenic	N.D.	0.0068	0.0200	mg/l	103		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	102		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	105		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	103		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	105		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	106		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	103		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	93		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	99		90-110		

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: 132495713003	Sample number(s): 7186267-7186283 UNSPK: 7186267 BKG: 7186267								
Mercury	106	103	80-120	3	20	N.D.	N.D.	0 (1)	20
Batch number: 132501848002	Sample number(s): 7186267-7186283 UNSPK: 7186281 BKG: 7186281								
Arsenic	103	107	81-123	3	20	N.D.	N.D.	0 (1)	20
Barium	102	103	78-118	1	20	0.0128	0.0125	3 (1)	20
Cadmium	104	105	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	104	104	81-120	0	20	N.D.	N.D.	0 (1)	20
Lead	104	104	75-125	0	20	N.D.	N.D.	0 (1)	20
Nickel	105	106	86-115	1	20	N.D.	N.D.	0 (1)	20
Selenium	104	105	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	94	94	75-125	0	20	N.D.	N.D.	0 (1)	20
Vanadium	100	99	90-111	0	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 # 1416501 Sample # 7186267-83
Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information				4 Matrix		5 Analyses Requested										SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																																																																											
Facility #/SID: <u>MAYFLOWER Pipeline Incident</u> Site Address: <u>MAYFLOWER, AR</u> 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>HANS VAN ALLEE / Dave Dost</u>				Sediment ☐ Potable ☐ Ground ☐ Surface ☒ Water ☐ NPDES ☐ Air ☐		Preservation Code H ☐ N ☐ H ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐																																																																																																					
2 Sample Identification				3 Collected		Total # of Containers <u>VOCs 8260 B</u> <u>PAH 8270 SIM</u> <u>Indus. Metals + Ni, V, Cr, Mn</u> <u>Diss. Metals</u> <u>HEM oil & grease</u>										6 Remarks <u>LAB TO FILTER AND PRESSURE DISS. METALS UPON RECEIPT</u>																																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Date</th> <th>Time</th> <th>Grab</th> <th>Composite</th> <th>Soil</th> <th>Water</th> <th>Oil</th> </tr> </thead> <tbody> <tr><td>WS-014 (1.5-2.0)</td><td>090413</td><td>9.4.13</td><td>0850</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>WS-014 (5.5-6.0)</td><td>090413</td><td></td><td>0900</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>WS-012 (1.5-2.0)</td><td>090413</td><td></td><td>0920</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>WS-012 (5.0-5.5)</td><td>090413</td><td></td><td>0930</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>WS-010 (1.5-2.0)</td><td>090413</td><td></td><td>0945</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>WS-010 (3.5-4.0)</td><td>090413</td><td></td><td>0955</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>WS-006 (0.5-1.0)</td><td>090413</td><td></td><td>1010</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>WS-005 (Surface)</td><td>090413</td><td></td><td>1055</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>WS-002 (Surface)</td><td>090413</td><td></td><td>1130</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>WS-011 (1.5-2.0)</td><td>090413</td><td></td><td>1145</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>WS-011 (5.0-5.5)</td><td>090413</td><td></td><td>1155</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>WS-018 (Surface)</td><td>090413</td><td>✓</td><td>1220</td><td>X</td><td></td><td>X</td><td></td></tr> </tbody> </table>				Sample ID	Date													Time	Grab	Composite	Soil	Water	Oil	WS-014 (1.5-2.0)	090413	9.4.13	0850	X		X		WS-014 (5.5-6.0)	090413		0900	X		X		WS-012 (1.5-2.0)	090413		0920	X		X		WS-012 (5.0-5.5)	090413		0930	X		X		WS-010 (1.5-2.0)	090413		0945	X		X		WS-010 (3.5-4.0)	090413		0955	X		X		WS-006 (0.5-1.0)	090413		1010	X		X		WS-005 (Surface)	090413		1055	X		X		WS-002 (Surface)	090413		1130	X		X		WS-011 (1.5-2.0)	090413		1145	X		X		WS-011 (5.0-5.5)	090413		1155
Sample ID	Date	Time	Grab	Composite	Soil	Water	Oil																																																																																																				
WS-014 (1.5-2.0)	090413	9.4.13	0850	X		X																																																																																																					
WS-014 (5.5-6.0)	090413		0900	X		X																																																																																																					
WS-012 (1.5-2.0)	090413		0920	X		X																																																																																																					
WS-012 (5.0-5.5)	090413		0930	X		X																																																																																																					
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WS-011 (5.0-5.5)	090413		1155	X		X																																																																																																					
WS-018 (Surface)	090413	✓	1220	X		X																																																																																																					
7 Turnaround Time Requested (TAT) (please circle) Standard <u>5 day</u> 4 day 72 hour 48 hour 24 hour				Relinquished by: <u>[Signature]</u> Date: <u>9.4.13</u> Time: <u>1500</u> Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by Commercial Carrier: _____ UPS ☒ FedEx _____ Other _____ Temperature Upon Receipt: <u>0.5-4.2°C</u>		Received by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____ Received by: <u>[Signature]</u> Date: <u>9/5/13</u> Time: <u>0940</u> Custody Seals Intact? Yes ☒ No ☐																																																																																																					
8 Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____				EDD (circle if required) Locus EIM (default) Other _____																																																																																																							

eurofins

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only

Group # 1416501 Sample # 7186267-83

Instructions on reverse side correspond with circled numbers

2 of 2

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

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

Environmental Sample Administration
Receipt Documentation Log

1416501

Client/Project: Mayflower WatersShipping Container Sealed: YES NODate of Receipt: 9/5/13Custody Seal Present *: YES NOTime of Receipt: 0940* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 60-1Package: 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	DT121	1.8	TB	WI	Y	B	
2		4.2					
3		0.5					
4		1.6					
5		1.5					
6		1.1					

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

Paperwork Discrepancy/Unpacking Problems:

9/4/13 @ 1220 WS-018 (surface) 1 broken O+G jarUnpacker Signature/Emp#: CEshler 3647 Date/Time: 9/5/13 1028

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 <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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

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