

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 25, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 09/20/2013

Group Number: 1420268

SDG: PEL60

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)091913 Filt Grab Surface Water	7204814
WS-014(5.5-6.0)091913 Filt Grab Surface Water	7204815
WS-012(1.5-2.0)091913 Filt Grab Surface Water	7204816
WS-012(5.0-5.5)091913 Filt Grab Surface Water	7204817
WS-010(1.5-2.0)091913 Filt Grab Surface Water	7204818
WS-010(3.5-4.0)091913 Filt Grab Surface Water	7204819
WS-006(0.5-1.0)091913 Filt Grab Surface Water	7204820
WS-006(0.5-1.0)091913MS Filt Grab Surface Water	7204821
WS-006(0.5-1.0)091913MSD Filt Grab Surface Water	7204822
WS-006(0.5-1.0)091913DUP Filt Grab Surface Water	7204823
WS-005(Surface)091913 Filt Grab Surface Water	7204824
WS-002(Surface)091913 Filt Grab Surface Water	7204825
WS-011(1.5-2.0)091913 Filt Grab Surface Water	7204826
WS-011(5.0-5.5)091913 Filt Grab Surface Water	7204827
WS-018(Surface)091913 Filt Grab Surface Water	7204828
WS-003(Surface)091913 Filt Grab Surface Water	7204829
WS-007(0.5-1.0)091913 Filt Grab Surface Water	7204830
WS-001(0.5-1.0)091913 Filt Grab Surface Water	7204831
WS-EB-66-091913 Filt Grab Water	7204832

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: Emily Leamer
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ELECTRONIC	ARCADIS	Attn: Rhiannon Parmalee
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ELECTRONIC	ARCADIS	Attn: Jamie Pritchard
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ELECTRONIC	ExxonMobil	Attn: Michael L Sixsmith
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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 #: 1420268

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)091913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204814
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 08:40 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1914F SDG#: PEL60-01

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	0.0197	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132661848006	09/25/2013 03:08	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 03:08	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 03:08	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 03:08	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 03:08	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 03:08	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 03:08	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 03:08	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 03:08	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-014(5.5-6.0)091913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204815
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 08:50 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

19F14 SDG#: PEL60-02

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	0.0207	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	132661848006	09/25/2013 03:12	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 03:12	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 03:12	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 03:12	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 03:12	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 03:12	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 03:12	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 03:12	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 03:12	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-012(1.5-2.0)091913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204816
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 09:10 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1912F SDG#: PEL60-03

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	0.0220	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	132661848006	09/25/2013 03:23	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 03:23	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 03:23	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 03:23	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 03:23	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 03:23	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 03:23	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 03:23	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 03:23	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-012(5.0-5.5)091913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204817
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 09:20 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

19F12 SDG#: PEL60-04

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	0.0240	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	132661848006	09/25/2013 03:26	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 03:26	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 03:26	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 03:26	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 03:26	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 03:26	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 03:26	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 03:26	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 03:26	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-010(1.5-2.0)091913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204818
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 09:35 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1910F SDG#: PEL60-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0216	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132661848006	09/25/2013 03:30	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 03:30	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 03:30	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 03:30	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 03:30	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 03:30	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 03:30	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 03:30	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 03:30	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-010(3.5-4.0)091913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204819
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 09:45 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

19F10 SDG#: PEL60-06

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	0.0202	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	132661848006	09/25/2013 03:34	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 03:34	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 03:34	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 03:34	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 03:34	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 03:34	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 03:34	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 03:34	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 03:34	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-006(0.5-1.0)091913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204820
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 10:00 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1906F SDG#: PEL60-07BKG

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	0.0170	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	132661848006	09/25/2013 02:46	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 02:46	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 02:46	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 02:46	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 02:46	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 02:46	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 02:46	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 02:46	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 02:46	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-006(0.5-1.0)091913MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204821
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 10:00 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1906F SDG#: PEL60-07MS

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	0.154	0.0068	0.0200	1
07046	Barium	7440-39-3	2.07	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0492	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.202	0.0016	0.0150	1
07055	Lead	7439-92-1	0.143	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.497	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.148	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0558	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	132661848006	09/25/2013 02:57	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 02:57	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 02:57	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 02:57	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 02:57	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 02:57	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 02:57	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 02:57	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 02:57	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-006(0.5-1.0)091913MSD Filtr Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204822
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 10:00 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1906F SDG#: PEL60-07MSD

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	0.154	0.0068	0.0200	1
07046	Barium	7440-39-3	2.05	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0490	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.202	0.0016	0.0150	1
07055	Lead	7439-92-1	0.143	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.496	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.147	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0545	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.527	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	132661848006	09/25/2013 03:01	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 03:01	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 03:01	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 03:01	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 03:01	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 03:01	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 03:01	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 03:01	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 03:01	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-006(0.5-1.0)091913DUP Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204823
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 10:00 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1906F SDG#: PEL60-07DUP

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	0.0171	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132661848006	09/25/2013 02:53	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 02:53	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 02:53	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 02:53	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 02:53	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 02:53	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 02:53	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 02:53	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 02:53	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-005 (Surface) 091913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204824
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 10:40 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1905F SDG#: PEL60-08

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	0.0349	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	132661848006	09/25/2013 03:38	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 03:38	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 03:38	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 03:38	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 03:38	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 03:38	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 03:38	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 03:38	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 03:38	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: **WS-002 (Surface) 091913 Filt Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7204825**
 LL Group # **1420268**
 Account # **14739**

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

Collected: 09/19/2013 11:00 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1902F SDG#: PEL60-09

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	0.0228	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	132661848006	09/25/2013 03:41	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 03:41	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 03:41	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 03:41	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 03:41	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 03:41	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 03:41	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 03:41	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 03:41	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-011(1.5-2.0)091913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204826
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 11:15 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1911F SDG#: PEL60-10

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	0.0186	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	132661848006	09/25/2013 03:45	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 03:45	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 03:45	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 03:45	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 03:45	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 03:45	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 03:45	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 03:45	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 03:45	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-011(5.0-5.5)091913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204827
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 11:30 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

19F11 SDG#: PEL60-11

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

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132661848006	09/25/2013 03:49	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 03:49	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 03:49	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 03:49	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 03:49	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 03:49	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 03:49	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 03:49	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 03:49	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-018 (Surface) 091913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204828
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 12:05 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1918F SDG#: PEL60-12

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	0.0485	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	132661848006	09/25/2013 03:52	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 03:52	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 03:52	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 03:52	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 03:52	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 03:52	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 03:52	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 03:52	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 03:52	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-003 (Surface) 091913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204829
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 12:15 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1903F SDG#: PEL60-13

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	0.0237	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	132661848006	09/25/2013 03:56	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 03:56	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 03:56	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 03:56	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 03:56	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 03:56	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 03:56	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 03:56	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 03:56	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-007(0.5-1.0)091913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204830
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 12:35 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1907F SDG#: PEL60-14

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	0.0200	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	132661848006	09/25/2013 04:07	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 04:07	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 04:07	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 04:07	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 04:07	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 04:07	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 04:07	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 04:07	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 04:07	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: WS-001(0.5-1.0)091913 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7204831
LL Group # 1420268
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/19/2013 12:45 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1901F SDG#: PEL60-15

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	0.0224	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132661848006	09/25/2013 04:11	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 04:11	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 04:11	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 04:11	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 04:11	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 04:11	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 04:11	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 04:11	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 04:11	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Sample Description: **WS-EB-66-091913 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7204832**
 LL Group # **1420268**
 Account # **14739**

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

Collected: 09/19/2013 13:30 by HVA

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

Submitted: 09/20/2013 09:45

Reported: 09/25/2013 13:33

1966F SDG#: PEL60-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.00085 J	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132661848006	09/25/2013 04:14	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132661848006	09/25/2013 04:14	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132661848006	09/25/2013 04:14	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132661848006	09/25/2013 04:14	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132661848006	09/25/2013 04:14	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132661848006	09/25/2013 04:14	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132661848006	09/25/2013 04:14	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132661848006	09/25/2013 04:14	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132661848006	09/25/2013 04:14	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132665713002	09/25/2013 07:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132661848006	09/24/2013 12:28	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132665713002	09/24/2013 05:15	Damary Valentin	1

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 09/25/13 at 01:33 PM

Group Number: 1420268

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: 132661848006	Sample number(s): 7204814-7204832								
Arsenic	N.D.	0.0068	0.0200	mg/l	102		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	100		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	100		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	97		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	101		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	99		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	107		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	104		90-110		
Batch number: 132665713002	Sample number(s): 7204814-7204832								
Mercury	N.D.	0.00006	0.00020	mg/l	107		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: 132661848006	Sample number(s): 7204814-7204832 UNSPK: 7204820 BKG: 7204820								
Arsenic	103	103	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	103	102	78-118	1	20	0.0170	0.0171	1 (1)	20
Cadmium	98	98	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	101	101	81-120	0	20	N.D.	N.D.	0 (1)	20
Lead	95	95	75-125	0	20	N.D.	N.D.	0 (1)	20
Nickel	99	99	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	98	98	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	112	109	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	106	105	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132665713002	Sample number(s): 7204814-7204832 UNSPK: 7204820 BKG: 7204820								
Mercury	101	105	80-120	3	20	N.D.	N.D.	0 (1)	20

*- Outside of specification

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

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

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

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
Group # 1420268 Sample # 7204814-32
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks	
Facility #/SID <u>MAYFLOWER PIPELINE INCIDENT</u>				Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/>				Preservation Code H N H										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other	
Site Address <u>MAYFLOWER, AR</u>								Total # of Containers <u>VOCs 8260 B</u> <u>PAH 8270 SIM</u> <u>RORA Metals + Ni, V, Cr, Mg</u> <u>Di. Metals</u> <u>HCM Oil & Grease</u>											
ExxonMobil PM <u>SCOTT BUSHROE</u>		Cost Center/AFE		Soil <input type="checkbox"/> Composite <input type="checkbox"/>		(6) Lab to filter and pressure diss. metals upon receipt.													
Consultant Office <u>ARCADIS</u>		Consultant Phone # <u>919-302-6799</u>		Grab <input type="checkbox"/> Composite <input type="checkbox"/>															
Consultant PM <u>STEVE BARRICK</u>		Sampler <u>HANS VAN ALLEN / Johnny Beasley</u>																	
2 Sample Identification				3 Collected															
				Date	Time	Grab	Composite	Soil	Water	Oil	Total # of Containers	VOCs	PAH	RORA Metals	Di. Metals	HCM Oil & Grease			
<u>WS-014(1.5-2.0)091913</u>				<u>9/19/13</u>	<u>0846</u>	<u>X</u>			<u>X</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>WS-014(5.5-6.0)091913</u>					<u>0850</u>	<u>Y</u>			<u>X</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>WS-012(1.5-2.0)091913</u>					<u>0910</u>	<u>X</u>			<u>X</u>		<u>9</u>	<u>Y</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>WS-012(5.0-5.5)091913</u>					<u>0920</u>	<u>Y</u>			<u>X</u>		<u>9</u>	<u>Y</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>WS-010(1.5-2.0)091913</u>					<u>0935</u>	<u>Y</u>			<u>X</u>		<u>9</u>	<u>Y</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>WS-010(3.5-4.0)091913</u>					<u>0945</u>	<u>Y</u>			<u>X</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>WS-006(0.5-1.0)091913</u>					<u>1000</u>	<u>Y</u>			<u>X</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>WS-005(Surface)091913</u>					<u>1040</u>	<u>Y</u>			<u>X</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>WS-002(Surface)091913</u>					<u>1100</u>	<u>Y</u>			<u>Y</u>		<u>9</u>	<u>Y</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>WS-011(1.5-2.0)091913</u>					<u>1115</u>	<u>Y</u>			<u>X</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>WS-011(5.0-5.5)091913</u>					<u>1130</u>	<u>Y</u>			<u>X</u>		<u>9</u>	<u>Y</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>WS-018(Surface)091913</u>					<u>1205</u>	<u>Y</u>			<u>Y</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by <u>[Signature]</u>		Date <u>9-19-13</u>	Time <u>1500</u>	Received by	Date	Time	(9)
Standard	<u>5 day</u>	4 day	Relinquished by		Date	Time	Received by	Date	Time	
72 hour	48 hour	24 hour	Relinquished by		Date	Time	Received by	Date	Time	
8 Data Package (circle if required)			Relinquished by Commercial Carrier		Temperature Upon Receipt <u>0.4-1.8C</u>		Received by <u>[Signature]</u>	Date <u>9/20/13</u>	Time <u>0945</u>	
Type I - Full Type VI (Raw Data) NJ Reduced Other			EDD (circle if required) Locus EIM (default) Other		UPS <u>X</u> FedEx Other		Custody Seals Intact? <u>(Yes)</u> No			

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only
 Group # 1420268 Sample # 7204814-32
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix					5 Analyses Requested								SCR#: _____
Facility #/SID <u>Mayflower Pipeline Incident</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Soil <input type="checkbox"/> Potable <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Air	<input type="checkbox"/> Ground <input type="checkbox"/> Surface	Preservation Code								Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		6 Remarks	
Site Address		ExxonMobil PM				Cost Center/AFE		Total # of Containers		H I N H		H					
<u>MAYFLOWER, AR</u>		<u>SCOTT Bushode</u>												<u>VOCs 8260 B</u> <u>PAH 8270 SIM</u> <u>Heavy Metals + Ni, V, Cr, Mn</u> <u>Diss. Metals</u> <u>HEM Oil + Grease</u>			
Consultant/Office		Consultant PM				Consultant Phone #											
<u>ARCADIS</u>		<u>Steve BARRICK</u>		<u>919-302-6799</u>													
Sampler <u>Hans Van Allec / Johnny Brasley</u>				3													
2 Sample Identification		Collected		Grab	Composite												
		Date	Time														
<u>WS-003(surface) 091913</u>		<u>9/19/13</u>	<u>1215</u>	<u>X</u>				<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>WS-007(0.5-1.0) 091913</u>			<u>1135</u>	<u>X</u>				<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>WS-001(0.5-1.0) 091913</u>			<u>1145</u>	<u>X</u>				<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>WS-006(0.5-1.0) 091913 MS/MSD</u>			<u>1000</u>	<u>X</u>				<u>18</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>WS-EB-66-091913</u>		<u>9.19.13</u>	<u>1330</u>	<u>X</u>				<u>7</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
<u>WS-TB-155-091913</u>		<u>9.19.13</u>	<u>---</u>	<u>X</u>				<u>2</u>	<u>X</u>								

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by		Date	Time	Received by		Date	Time	9
Standard <u>5 day</u> 4 day 72 hour 48 hour 24 hour			<u>AS/MS</u>		<u>9.19.13</u>	<u>1500</u>	<u>AS/MS</u>				
			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		Locus EIM (default)		UPS <u>X</u> FedEx _____ Other _____			<u>AS/MS</u>		<u>9/20/13</u>	<u>0945</u>
Type VI (Raw Data)		Other _____		Temperature Upon Receipt <u>04-18 °C</u>			Custody Seals Intact?		<u>Yes</u>	No
NJ Reduced										
Other _____										

Deborah A. Neslund *A# 14739 Gr. 1420268 Sample 7204814-32*

From: Drost, Dave [Dave.Drost@arcadis-us.com]
Sent: Thursday, September 19, 2013 9:44 PM
To: Van Aller, Hans
Cc: Kathy Klinefelter; Mott, Lyndi; Barrick, Stephen; Brewer, Stacey; Kull, Valerie; SA Env Entry; Capria, Dennis; Rachel L. Kreamer; McKenzie, Mary; Chandler, Jennifer; Molina, Joe; Lipka, Shelby; Parmelee, Rhiannon; Pritchard, Jamie; Steve C. Davies; Lewis, Ryan
Subject: Mayflower surface water sampling CoCs and tracking numbers 091913
Attachments: COC9-19(1).jpg; COC9-19(2).jpg; Tracking9-19.jpg


PLEASE NOTE

I discovered a numerical error on the COC after it was shipped to Lancaster. The time on WS-007 was labeled 1235, however the sent chain of custody is noted 1135. The time on WS-001 was labeled 1245, however the sent chain of custody is noted 1145. I have made the corrections on the carbon copy of the chain included, I assume Lancaster will make the adjustments before processing. If you have any questions please do not hesitate to contact me.

Dave

All,

Attached are the COC's and tracking numbers from today's surface water sampling event.

David E. Drost | Surveyor | ddrost@arcadis-us.com [Linkedin](#) 
 ARCADIS U.S., Inc. | 194 Seven Farms Dr., Ste. F | Charleston, SC 29492
 Office. 843.375.5990 | Cell. 408.220.3618 | www.arcadis-us.com

ARCADIS, Imagine the result
 Please consider the environment before printing this email.

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9/20/2013

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
Group # 1420268 Sample # 7204814-32
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested						SCR#:	
Facility #/SID <u>MAYFLOWER PIPELINE INCIDENT</u>				Sediment <input type="checkbox"/>	Potable <input type="checkbox"/>	Ground <input type="checkbox"/>	Surface <input checked="" type="checkbox"/>	Preservation Code						Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other	
Site Address <u>MAYFLOWER AR</u>								Water <input type="checkbox"/>	NPDES <input type="checkbox"/>	Air <input type="checkbox"/>					
ExxonMobil PM <u>SCOTT BISHOP</u>		Coast Center/AFE		Soil <input type="checkbox"/>	Oil <input type="checkbox"/>	Total # of Containers							6 Remarks <u>Lab to filter and preserve diss. metals upon receipt.</u>		
Consultant/Office <u>MECADIS</u>															
Consultant PM <u>STEVE BARRICK</u>		Consultant Phone # <u>919-302-6799</u>													
Sampler <u>HANS VAN ALLEC / Johnny Brasley</u>				3 Composite											
2 Sample Identification		Collected		Grab	Composite										
		Date	Time												
<u>WS-014(1.5-2.0)091913</u>		<u>9/19/13</u>	<u>0846</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-014(5.5-6.0)091913</u>			<u>0850</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-012(1.5-2.0)091913</u>			<u>0710</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-012(5.0-5.5)091913</u>			<u>0920</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-010(1.5-2.0)091913</u>			<u>0935</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-010(3.5-4.0)091913</u>			<u>0945</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-006(0.5-1.0)091913</u>			<u>1000</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-005(Surface)091913</u>			<u>1040</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-002(Surface)091913</u>			<u>1100</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-011(1.5-2.0)091913</u>			<u>1115</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-011(5.0-5.5)091913</u>			<u>1130</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-018(Surface)091913</u>			<u>1205</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>LS</u>		Date <u>9-19-13</u>	Time <u>1500</u>	Received by		Date	Time	9			
Standard <u>6 day</u> 4 day				Relinquished by		Date	Time	Received by		Date	Time				
72 hour 48 hour 24 hour				Relinquished by		Date	Time	Received by		Date	Time				
8 Data Package (circle if required)				Relinquished by Commercial Carrier		Temperature Upon Receipt _____ °C		Custody Seals Intact?		Yes	No				
Type I - Full		EDD (circle if required)		UPS <input checked="" type="checkbox"/> FedEx Other											
Type VI (Raw Data)		Locus EIM (default)													
NJ Reduced		Other _____													
Other _____															

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7053 0713

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14789

For Eurofins Lancaster Laboratories Environmental use only
Group # 1420208 Sample # 7204814-32
Instructions on reverse side correspond with circled numbers.

Client Information			Matrix				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 BUSHCOE</u> Consultant/Office <u>ARCADIS</u> Consultant PM <u>STEVE BARRICK</u> Consultant Phone # <u>919-302-6799</u>			Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/>				Preservation Code <table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">H</td> <td style="width: 10%;">I</td> <td style="width: 10%;">N</td> <td style="width: 10%;">H</td> <td style="width: 10%;"> </td> <td style="width: 10%;"> </td> <td style="width: 10%;"> </td> <td style="width: 10%;"> </td> <td style="width: 10%;"> </td> <td style="width: 10%;"> </td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					H	I	N	H																						
H	I	N	H																																		
Sampler <u>HANS VAN ALFEE / Johnny Bensley</u>			Total # of Containers VOCs 8260B PAH 8270 SIM RECA Metals - <u>10/10 Mg</u> D-SS Metals HEM Oil & Grease								(6) Remarks 																										
(2) Sample Identification <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> </tr> </thead> <tbody> <tr> <td>WS-003 (surface) 091913</td> <td>9/19/13</td> <td>1215</td> <td>X</td> <td></td> </tr> <tr> <td>WS-007 (0.5-1.0) 091913</td> <td></td> <td>1155/1235</td> <td>X</td> <td></td> </tr> <tr> <td>WS-001 (0.5-1.0) 091913</td> <td></td> <td>1145/1245</td> <td>X</td> <td></td> </tr> <tr> <td>WS-006 (0.5-1.0) 091913 MS/MS</td> <td></td> <td>1000</td> <td>X</td> <td></td> </tr> <tr> <td>WS-EB-66-091913</td> <td>9/19/13</td> <td>1330</td> <td>X</td> <td></td> </tr> <tr> <td>WS-T6-155-091913</td> <td>9/19/13</td> <td></td> <td>X</td> <td></td> </tr> </tbody> </table>													Sample ID	Date	Time	Grab	Composite	WS-003 (surface) 091913	9/19/13	1215	X		WS-007 (0.5-1.0) 091913		1155/1235	X		WS-001 (0.5-1.0) 091913		1145/1245	X		WS-006 (0.5-1.0) 091913 MS/MS		1000	X	
Sample ID	Date	Time	Grab	Composite																																	
WS-003 (surface) 091913	9/19/13	1215	X																																		
WS-007 (0.5-1.0) 091913		1155/1235	X																																		
WS-001 (0.5-1.0) 091913		1145/1245	X																																		
WS-006 (0.5-1.0) 091913 MS/MS		1000	X																																		
WS-EB-66-091913	9/19/13	1330	X																																		
WS-T6-155-091913	9/19/13		X																																		
(7) Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour 24 hour			Relinquished by Date <u>9/19/13</u> Time <u>1500</u>				Received by Date _____ Time _____				(9)																										
(8) Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____			Relinquished by Commercial Carrier UPS <input checked="" type="checkbox"/> FedEx _____ Other _____				Received by Date _____ Time _____																														
EDD (circle if required) Locus EIM (default) Other _____			Temperature Upon Receipt _____ °C				Custody Seals Intact? Yes No																														

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7053 0713

Environmental Sample Administration 1420268
Receipt Documentation Log

Client/Project: Mayflower
Date of Receipt: 9/20/13
Time of Receipt: 0945
Source Code: 100-1

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	DT121	1.8	TB	WI	Y	B	
2	↓	1.4	↓	↓	↓	↓	
3	↓	0.8	↓	↓	↓	↓	
4	↓	1.7	↓	↓	↓	↓	
5	↓	0.4	↓	↓	↓	↓	
6	↓	1.0	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

WS-007 (0.5-1.0) collection time = 1235

WS-001 (0.5-1.0) collection time = 1245

Unpacker Signature/Emp#: C. Giller 3647 Date/Time: 9/20/13 1050

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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