

ANALYTICAL RESULTS

Prepared by:

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2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

August 25, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 08/20/2013
Group Number: 1412689
SDG: PEK87
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)081913 Filtered Grab Surface Water	7167343
WS-014(5.5-6.0)081913 Filtered Grab Surface Water	7167344
WS-012(1.5-2.0)081913 Filtered Grab Surface Water	7167345
WS-012(5.0-5.5)081913 Filtered Grab Surface Water	7167346
WS-010(1.5-2.0)081913 Filtered Grab Surface Water	7167347
WS-010(3.5-4.0)081913 Filtered Grab Surface Water	7167348
WS-006(0.5-1.0)081913 Filtered Grab Surface Water	7167349
WS-005(Surface)081913 Filtered Grab Surface Water	7167350
WS-002(Surface)081913 Filtered Grab Surface Water	7167351
WS-018(Surface)081913 Filtered Grab Surface Water	7167352
WS-011(1.5-2.0)081913 Filtered Grab Surface Water	7167353
WS-011(5.0-5.5)081913 Filtered Grab Surface Water	7167354
WS-003(Surface)081913 Filtered Grab Surface Water	7167355
WS-007(0.5-1.0)081913 Filtered Grab Surface Water	7167356
WS-001(0.5-1.0)081913 Filtered Grab Surface Water	7167357
DUP-WS-73-081913 Filtered Grab Surface Water	7167358
WS-EB-035-081913 Filtered Grab Water	7167359

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

COPY TO		
ELECTRONIC	ARCADIS	Attn: Rhiannon Parmalee
COPY TO		
ELECTRONIC	ARCADIS	Attn: Jamie Pritchard
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ELECTRONIC	ExxonMobil	Attn: Michael L Sixsmith
COPY TO		
ELECTRONIC	ExxonMobil	Attn: Julie Foster
COPY TO		
ELECTRONIC	ExxonMobil	Attn: Carl Wideman
COPY TO		

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1412689

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:**SW-846 6010B, Metals Dissolved**

Batch #: 132331848004 (Sample number(s): 7167343-7167359 UNSPK: 7167349 BKG: 7167349)

The duplicate RPD for the following analyte(s) exceeded the acceptance window:
Arsenic

Sample Description: WS-014(1.5-2.0)081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167343
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 08:10 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

14F01 SDG#: PEK87-01

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	0.0164	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 laboratory 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	132331848004	08/24/2013 17:33	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 17:33	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 17:33	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 17:33	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 17:33	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 17:33	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 17:33	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 17:33	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 17:33	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 09:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167344
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 08:20 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

14F02 SDG#: PEK87-02

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	0.0165	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 laboratory 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	132331848004	08/24/2013 17:37	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 17:37	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 17:37	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 17:37	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 17:37	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 17:37	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 17:37	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 17:37	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 17:37	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 09:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167345
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 08:40 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

12F01 SDG#: PEK87-03

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	0.0142	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 laboratory 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	132331848004	08/24/2013 17:48	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 17:48	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 17:48	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 17:48	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 17:48	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 17:48	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 17:48	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 17:48	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 17:48	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 09:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167346
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 08:50 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

12F02 SDG#: PEK87-04

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	0.0068 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0147	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 laboratory 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	132331848004	08/24/2013 17:52	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 17:52	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 17:52	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 17:52	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 17:52	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 17:52	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 17:52	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 17:52	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 17:52	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 09:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167347
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 09:10 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

10F01 SDG#: PEK87-05

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	0.0171	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 laboratory 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	132331848004	08/24/2013 17:56	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 17:56	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 17:56	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 17:56	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 17:56	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 17:56	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 17:56	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 17:56	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 17:56	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 09:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167348
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 09:20 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

10F02 SDG#: PEK87-06

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	0.0171	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 laboratory 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	132331848004	08/24/2013 18:00	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 18:00	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 18:00	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 18:00	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 18:00	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 18:00	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 18:00	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 18:00	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 18:00	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 09:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167349
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 09:35 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

06F01 SDG#: PEK87-07

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	0.0069 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0153	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 laboratory 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	132331848004	08/24/2013 17:09	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 17:09	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 17:09	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 17:09	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 17:09	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 17:09	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 17:09	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 17:09	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 17:09	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 09:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-005 (Surface) 081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167350
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 10:10 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

05F01 SDG#: PEK87-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0138	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			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
SW-846 7470A			mg/l	mg/l	mg/l	

General Sample Comments

This sample was filtered in the laboratory 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	132331848004	08/24/2013 18:04	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 18:04	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 18:04	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 18:04	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 18:04	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 18:04	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 18:04	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 18:04	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 18:04	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 09:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-002 (Surface) 081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167351
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 10:30 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

02F01 SDG#: PEK87-09

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	0.0141	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 laboratory 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	132331848004	08/24/2013 18:08	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 18:08	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 18:08	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 18:08	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 18:08	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 18:08	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 18:08	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 18:08	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 18:08	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 09:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-018 (Surface) 081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167352
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 11:00 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

18F01 SDG#: PEK87-10

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	0.0079 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0212	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory 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	132331848004	08/24/2013 18:12	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 18:12	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 18:12	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 18:12	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 18:12	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 18:12	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 18:12	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 18:12	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 18:12	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 09:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167353
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 11:10 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

11F01 SDG#: PEK87-11

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	0.0150	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 laboratory 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	132331848004	08/24/2013 18:16	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 18:16	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 18:16	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 18:16	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 18:16	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 18:16	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 18:16	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 18:16	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 18:16	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 09:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167354
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 11:20 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

11F02 SDG#: PEK87-12

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	0.0185	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 laboratory 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	132331848004	08/24/2013 18:20	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 18:20	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 18:20	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 18:20	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 18:20	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 18:20	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 18:20	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 18:20	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 18:20	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 10:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-003 (Surface) 081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167355
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 11:30 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

03F01 SDG#: PEK87-13

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	0.0140	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 laboratory 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	132331848004	08/24/2013 18:24	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 18:24	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 18:24	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 18:24	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 18:24	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 18:24	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 18:24	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 18:24	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 18:24	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 10:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167356
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 12:00 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

07F01 SDG#: PEK87-14

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	0.0073 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0210	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the laboratory 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	132331848004	08/24/2013 18:36	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 18:36	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 18:36	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 18:36	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 18:36	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 18:36	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 18:36	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 18:36	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 18:36	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 10:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167357
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 12:20 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

01F01 SDG#: PEK87-15

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	0.0089	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 laboratory 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	132331848004	08/24/2013 18:40	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 18:40	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 18:40	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 18:40	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 18:40	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 18:40	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 18:40	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 18:40	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 18:40	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 10:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: DUP-WS-73-081913 Filtered Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167358
LL Group # 1412689
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/19/2013 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

DPF01 SDG#: PEK87-16FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0155	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			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
SW-846 7470A			mg/l	mg/l	mg/l	

General Sample Comments

This sample was filtered in the laboratory 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	132331848004	08/24/2013 18:44	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 18:44	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 18:44	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 18:44	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 18:44	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 18:44	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 18:44	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 18:44	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 18:44	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 10:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Sample Description: **WS-EB-035-081913 Filtered Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7167359**
 LL Group # **1412689**
 Account # **14739**

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

Collected: 08/19/2013 14:00 by HV

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 05:51

EBF01 SDG#: PEK87-17EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0044 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 laboratory 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	132331848004	08/24/2013 18:48	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848004	08/24/2013 18:48	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848004	08/24/2013 18:48	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848004	08/24/2013 18:48	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848004	08/24/2013 18:48	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848004	08/24/2013 18:48	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848004	08/24/2013 18:48	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848004	08/24/2013 18:48	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848004	08/24/2013 18:48	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713004	08/23/2013 10:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848004	08/22/2013 11:16	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713004	08/22/2013 16:30	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 08/25/13 at 05:51 AM

Group Number: 1412689

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: 132331848004	Sample number(s): 7167343-7167359								
Arsenic	N.D.	0.0068	0.0200	mg/l	100		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	101		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	103		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	103		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	98		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	90		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	101		90-110		
Batch number: 132335713004	Sample number(s): 7167343-7167359								
Mercury	N.D.	0.00006	0.00020	mg/l	104		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: 132331848004	Sample number(s): 7167343-7167359 UNSPK: 7167349 BKG: 7167349								
Arsenic	96	98	81-123	2	20	0.0069 J	N.D.	200* (1)	20
Barium	101	101	78-118	0	20	0.0153	0.0152	1 (1)	20
Cadmium	102	102	83-116	0	20	N.D.	N.D.	0 (1)	20
Chromium	101	101	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	103	103	75-125	0	20	N.D.	N.D.	0 (1)	20
Nickel	104	103	86-115	1	20	N.D.	N.D.	0 (1)	20
Selenium	102	99	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	92	91	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	102	101	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132335713004	Sample number(s): 7167343-7167359 UNSPK: 7167353 BKG: 7167353								
Mercury	102	100	80-120	2	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 # 1412089 Sample # 7167343-59

Instructions on reverse side correspond with circled numbers.

1 of 2

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"/>	Preservation Code						SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other						
Site Address <u>Mayflower, AR</u>							Potable <input type="checkbox"/>	NPDES <input type="checkbox"/>	Air <input type="checkbox"/>										
ExxonMobil PM <u>Scott + Bushroo</u>		Cost Center/AFE																	
Consultant/Office <u>Arcadis</u>				Soil <input type="checkbox"/>	Water <input type="checkbox"/>	Oil <input type="checkbox"/>	Total # of Containers							(3) Composite Grab <input type="checkbox"/>					
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919-202-6799</u>																	
Sampler <u>H. Van Aller / T. Milburn</u>																			
2 Sample Identification		Collected																	
		Date	Time																
<u>WS-014(1.5-2.0)081913</u>		<u>8/19/13</u>	<u>810</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>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>WS-014(5.5-6.0)081913</u>			<u>820</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>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>WS-012(1.5-2.0)081913</u>			<u>840</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>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>WS-012(5.0-5.5)081913</u>			<u>850</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>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>WS-010(1.5-2.0)081913</u>			<u>910</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>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>WS-010(3.5-4.0)081913</u>			<u>920</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>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>WS-006(0.5-1.0)081913</u>			<u>935</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>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>WS-005(surface)081913</u>			<u>1010</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>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>WS-002(surface)081913</u>			<u>1030</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>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>WS-018(surface)081913</u>			<u>1100</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>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>WS-011(1.5-2.0)081913</u>			<u>1110</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>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>WS-011(5.0-5.5)081913</u>			<u>1120</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>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>H. Van Aller</u>		Date <u>8/19/13</u>		Time <u>1800</u>		Received by		Date		Time					
Standard <u>5 day</u> 4 day																			
72 hour 48 hour 24 hour																			
8 Data Package (circle if required)				Relinquished by		Date		Time		Received by		Date		Time					
Type I - Full				Relinquished by Commercial Carrier						Received by		Date		Time					
Type VI (Raw Data)				UPS <u>X</u> FedEx _____ Other _____						Received by <u>Buendia</u>		<u>8-20-13</u>		<u>910</u>					
NJ Reduced				Temperature Upon Receipt <u>0.42.6 °C</u>						Custody Seals Intact?		<u>Yes</u>		No					
Other _____				EDD (circle if required)															
				Locus EIM (default)															
				Other _____															

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only
 Acct. # 14739 Group # 1412089 Sample # 7167343-59 2 of 2
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analyses Requested								SCR#: <u>142595</u>	
Facility #/SID <u>Mayflower Pipeline Incident</u>				<input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input 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>								H N H VOCs 8260 B PAHs 8270 SIM ACRA Metals Ni, V, Cr, Mg Diss Metals IEM Oil & Grease									
ExxonMobil PM <u>Scott Bashree</u>		Cost Center/AFE		Total # of Containers VOCs 8260 B PAHs 8270 SIM ACRA Metals Ni, V, Cr, Mg Diss Metals IEM Oil & Grease												6 Remarks	
Consultant/Office <u>Arcadis</u>		Consultant Phone # <u>919 202 6799</u>															
Consultant PM <u>Steve Barrick</u>		Sampler <u>H. Van Aller / T. Milburn</u>		Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/>													
Sample ID		Collected															
2 Sample Identification		Date		Time		Grab		Composite									
<u>WS-003(surface) 081913</u>		<u>8/19/13</u>		<u>1130</u>		<u>X</u>		<u>X</u>									
<u>WS-007(0.5-1.0) 081913</u>		<u>1200</u>		<u>X</u>		<u>X</u>		<u>X</u>									
<u>WS-001(0.5-1.0) 081913</u>		<u>1220</u>		<u>X</u>		<u>X</u>		<u>X</u>									
<u>DUP-WS-73-081913</u>		<u>—</u>		<u>X</u>		<u>X</u>		<u>X</u>									
<u>WS-EB-035-081913</u>		<u>1400</u>		<u>X</u>		<u>X</u>		<u>X</u>									
<u>WS-TB-127-081913</u>		<u>—</u>		<u>X</u>		<u>X</u>		<u>X</u>									
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>[Signature]</u> Date <u>7/29/13</u> Time <u>14:35</u>				Received by _____ Date _____ Time _____				9					
Standard <u>8 day</u> 4 day				Relinquished by <u>[Signature]</u> Date <u>8/19/13</u> Time <u>1800</u>				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				Received by <u>[Signature]</u> Date <u>8-20-13</u> Time <u>910</u>									
Type I - Full				UPS <u>X</u> FedEx _____ Other _____				Temperature Upon Receipt <u>0.4-2.6C</u>				Custody Seals Intact? <u>Yes</u> No					
Type VI (Raw Data)				Locus EIM (default)													
NJ Reduced				Other _____													
Other _____																	

Rachel L. Kreamer A#14739 Gr# 1412689 Sample 7167343-59

From: Van Aller, Hans [Hans.VanAller@arcadis-us.com]
Sent: Tuesday, August 20, 2013 9:50 AM
To: Kathy Klinefelter; Mott, Lyndi; Barrick, Stephen; Brewer, Stacey; Kull, Valerie; SA Env Entry; Capria, Dennis; Rachel L. Kreamer; McKenzie, Mary; Chandler, Jennifer
Cc: Molina, Joe; Lipka, Shelby; Parmelee, Rhiannon; Pritchard, Jamie; Milburn, Tyler
Subject: Re: Mayflower COCs Surface water sampling 081913 and tracking numbers

We still have the Dissolved metals for WS-002(surface)081913 and RCRA Metals for WS-003(surface)081913. We will ship with the samples today .

Sent from Hans' iPhone

On Aug 19, 2013, at 7:22 PM, "Van Aller, Hans" <Hans.VanAller@arcadis-us.com> wrote:

> Hello All
> Attached are the COCs from today's surface water sampling activities.
> Thanks
> Hans H. van Aller IV | Field Tech 3 |
> Hans.VanAller@arcadis-us.com<mailto:firstname.lastname@arcadis-us.com>
> ARCADIS U.S., Inc. | 630 Plaza Drive, Suite 100 | Highlands Ranch, CO
> 80129 T. 720.344.3500 | M.720.635.0173| F. 720.344.3535
> www.arcadis-us.com<http://www.arcadis-us.com/>
> ARCADIS, Imagine the result
> Please consider the environment before printing this email.
>
>
>
>
> <Downstream chains surface water .jpg> <CoC 081913.jpg> <CoC
> 081913-2.jpg> <CoC 081913-3.jpg> <CoC 081913-4.jpg> <CoC 081913-5.jpg>
> <Tracking Numbers 8-19-13.jpg>

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Environmental Sample Administration
Receipt Documentation Log

1412689

Client/Project: Exxon mobil

Shipping Container Sealed: YES NO

Date of Receipt: 8-20-13

Custody Seal Present * : YES NO

Time of Receipt: 910

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

Source Code: 60-1

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	DH46	1.6	TB	wi	x	B	
2		1.6					
3		1.6					
4		0.4					
5		2.6					
6	✓	3.1	✓	✓	✓	✓	

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

Paperwork Discrepancy/Unpacking Problems:

Rec 2 Sm Amber (WS-007 CO.5-1.0) =
WS-007 Surface (1200) - Gr. 1412681

Did not Rec 1 Dissolved metals for WS-002
Did not Rec 1 metals for WS-003

Unpacker Signature/Emp#: Beverly Beverly ²²⁹⁹ Date/Time: 8-20-13 1111

Issued by Dept. 6042 Management

Environmental Sample Administration
Receipt Documentation Log

1412689
~~1413017~~ *PKL*
8/21/13

Client/Project: Mayflower Water
Date of Receipt: 8/21/13
Time of Receipt: 0920
Source Code: 60-1

Shipping Container Sealed: YES NO
Custody Seal Present *: YES NO
* Custody seal was intact unless otherwise noted in the discrepancy section
Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT146	4.3	TB	WI	Y	B	
2		1.3					
3		0.3					
4		2.2					
5		3.9					
6		0.8					

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

Paperwork Discrepancy/Unpacking Problems:

By: 1412689 Received WS-002 (surface) 081913 8/19/13 @ 1030 - 15 bottle
By: 1412681 Received WS-003 (surface) 081913 8/19/13 @ 1130 - 08 bottle.

Unpacker Signature/Emp#: Cash 3647 Date/Time: 8/21/13 1045

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

ppb parts per billion

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

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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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