

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 24, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 08/17/2013

Group Number: 1412296

SDG: PEK76

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample DescriptionLancaster Labs (LL) #

WS-014(1.5-2.0)081613 Filt Grab Surface Water	7165491
WS-014(5.5-6.0)081613 Filt Grab Surface Water	7165492
WS-012(1.5-2.0)081613 Filt Grab Surface Water	7165493
WS-012(5.0-5.5)081613 Filt Grab Surface Water	7165494
WS-010(1.5-2.0)081613 Filt Grab Surface Water	7165495
WS-010(3.5-4.0)081613 Filt Grab Surface Water	7165496
WS-006(0.5-1.0)081613 Filt Grab Surface Water	7165497
WS-006(0.5-1.0)081613MS Filt Grab Surface Water	7165498
WS-006(0.5-1.0)081613MSD Filt Grab Surface Water	7165499
WS-006(0.5-1.0)081613DUP Filt Grab Surface Water	7165500
WS-005(Surface)081613 Filt Grab Surface Water	7165501
WS-002(Surface)081613 Filt Grab Surface Water	7165502
WS-018(Surface)081613 Filt Grab Surface Water	7165503
WS-011(1.5-2.0)081613 Filt Grab Surface Water	7165504
WS-011(5.0-5.5)081613 Filt Grab Surface Water	7165505
WS-003(Surface)081613 Filt Grab Surface Water	7165506
WS-007(0.5-1.0)081613 Filt Grab Surface Water	7165507
WS-001(0.5-1.0)081613 Filt Grab Surface Water	7165508
WS-BKG-002(Surface)081613 Filt Grab Surface Water	7165509
WS-EB-31-081613 Filt Grab Water	7165510

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC ARCADIS
COPY TO
ELECTRONIC ARCADIS
COPY TO

Attn: Stephen Barrick

Attn: Lyndi Mott

ELECTRONIC COPY TO	ExxonMobil	Attn: Michael J. Firth
ELECTRONIC COPY TO	ARCADIS	Attn: Emily Leamer
ELECTRONIC COPY TO	ARCADIS	Attn: Rhiannon Parmalee
ELECTRONIC COPY TO	ARCADIS	Attn: Jamie Pritchard
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael L Sixsmith
ELECTRONIC COPY TO	ExxonMobil	Attn: Julie Foster
ELECTRONIC COPY TO	ExxonMobil	Attn: Carl Wideman

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1412296

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)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165491
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 08:25 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF014 SDG#: PEK76-01

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	0.0180	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	132311848002	08/23/2013 19:21	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 19:21	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 19:21	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 19:21	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 19:21	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 19:21	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 19:21	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 19:21	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 19:21	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-014(5.5-6.0)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165492
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 08:35 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF-14 SDG#: PEK76-02

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	0.0174	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	132311848002	08/23/2013 19:25	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 19:25	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 19:25	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 19:25	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 19:25	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 19:25	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 19:25	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 19:25	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 19:25	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-012(1.5-2.0)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165493
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 08:50 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF012 SDG#: PEK76-03

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	0.0119	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	132311848002	08/23/2013 19:36	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 19:36	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 19:36	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 19:36	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 19:36	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 19:36	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 19:36	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 19:36	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 19:36	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-012(5.0-5.5)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165494
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 08:55 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF-12 SDG#: PEK76-04

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	0.0123	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 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	132311848002	08/23/2013 19:40	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 19:40	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 19:40	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 19:40	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 19:40	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 19:40	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 19:40	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 19:40	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 19:40	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-010(1.5-2.0)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165495
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 09:15 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF010 SDG#: PEK76-05

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	0.0117	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	132311848002	08/23/2013 19:44	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 19:44	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 19:44	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 19:44	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 19:44	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 19:44	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 19:44	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 19:44	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 19:44	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-010(3.5-4.0)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165496
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 09:20 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF-10 SDG#: PEK76-06

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	0.0129	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	132311848002	08/23/2013 19:48	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 19:48	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 19:48	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 19:48	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 19:48	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 19:48	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 19:48	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 19:48	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 19:48	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-006(0.5-1.0)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165497
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 09:35 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF006 SDG#: PEK76-07BKG

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	0.0126	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	132311848002	08/23/2013 18:58	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 18:58	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 18:58	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 18:58	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 18:58	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 18:58	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 18:58	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 18:58	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 18:58	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-006(0.5-1.0)081613MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165498
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 09:35 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF006 SDG#: PEK76-07MS

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	0.152	0.0068	0.0200	1
07046	Barium	7440-39-3	2.07	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0518	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.205	0.0016	0.0150	1
07055	Lead	7439-92-1	0.157	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.528	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.146	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0488	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.512	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	132311848002	08/23/2013 19:10	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 19:10	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 19:10	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 19:10	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 19:10	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 19:10	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 19:10	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 19:10	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 19:10	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-006(0.5-1.0)081613MSD Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165499
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 09:35 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF006 SDG#: PEK76-07MSD

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	0.152	0.0068	0.0200	1
07046	Barium	7440-39-3	2.08	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0509	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.203	0.0016	0.0150	1
07055	Lead	7439-92-1	0.154	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.519	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.146	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0498	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.509	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	132311848002	08/23/2013 19:13	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 19:13	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 19:13	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 19:13	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 19:13	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 19:13	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 19:13	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 19:13	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 19:13	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-006(0.5-1.0)081613DUP Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165500
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 09:35 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF006 SDG#: PEK76-07DUP

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	0.0125	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	132311848002	08/23/2013 19:06	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 19:06	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 19:06	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 19:06	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 19:06	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 19:06	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 19:06	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 19:06	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 19:06	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-005(Surface)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165501
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 10:15 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF005 SDG#: PEK76-08

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	0.0149	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	132311848002	08/23/2013 19:52	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 19:52	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 19:52	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 19:52	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 19:52	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 19:52	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 19:52	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 19:52	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 19:52	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-002(Surface)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165502
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 10:40 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF002 SDG#: PEK76-09

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 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	132311848002	08/23/2013 19:56	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 19:56	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 19:56	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 19:56	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 19:56	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 19:56	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 19:56	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 19:56	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 19:56	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-018(Surface)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165503
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 11:00 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF018 SDG#: PEK76-10

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	0.0205	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	132311848002	08/23/2013 19:59	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 19:59	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 19:59	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 19:59	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 19:59	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 19:59	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 19:59	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 19:59	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 19:59	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-011(1.5-2.0)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165504
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 11:20 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF011 SDG#: PEK76-11

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	0.0163	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	132311848002	08/23/2013 20:03	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 20:03	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 20:03	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 20:03	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 20:03	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 20:03	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 20:03	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 20:03	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 20:03	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-011(5.0-5.5)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165505
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 11:25 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF-11 SDG#: PEK76-12

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	0.0166	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	132311848002	08/23/2013 20:07	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 20:07	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 20:07	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 20:07	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 20:07	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 20:07	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 20:07	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 20:07	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 20:07	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-003(Surface)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165506
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 12:40 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF003 SDG#: PEK76-13

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	0.0157	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	132311848002	08/23/2013 20:11	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 20:11	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 20:11	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 20:11	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 20:11	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 20:11	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 20:11	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 20:11	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 20:11	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-007(0.5-1.0)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165507
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 12:00 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF007 SDG#: PEK76-14

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	0.0209	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	132311848002	08/23/2013 20:22	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 20:22	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 20:22	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 20:22	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 20:22	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 20:22	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 20:22	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 20:22	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 20:22	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-001(0.5-1.0)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165508
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 12:15 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WF001 SDG#: PEK76-15

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	0.0103	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	132311848002	08/23/2013 20:26	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 20:26	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 20:26	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 20:26	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 20:26	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 20:26	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 20:26	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 20:26	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 20:26	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-BKG-002(Surface)081613 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165509
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 12:30 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WFBKG SDG#: PEK76-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
07035	Arsenic	SW-846 6010B 7440-38-2	mg/l N.D.	mg/l 0.0068	mg/l 0.0200	1
07046	Barium	7440-39-3	0.0266	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
SW-846 7470A						
00259	Mercury	7439-97-6	mg/l N.D.	mg/l 0.000060	mg/l 0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132311848002	08/23/2013 20:30	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 20:30	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 20:30	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 20:30	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 20:30	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 20:30	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 20:30	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 20:30	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 20:30	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 10:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Sample Description: WS-EB-31-081613 Filt Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7165510
LL Group # 1412296
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/16/2013 13:00 by HVA

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

Submitted: 08/17/2013 09:00

Reported: 08/24/2013 10:20

WFE31 SDG#: PEK76-17EB*

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	0.0028 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	132311848002	08/23/2013 20:34	John P Hook	1
07046	Barium	SW-846 6010B	1	132311848002	08/23/2013 20:34	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132311848002	08/23/2013 20:34	John P Hook	1
07051	Chromium	SW-846 6010B	1	132311848002	08/23/2013 20:34	John P Hook	1
07055	Lead	SW-846 6010B	1	132311848002	08/23/2013 20:34	John P Hook	1
07061	Nickel	SW-846 6010B	1	132311848002	08/23/2013 20:34	John P Hook	1
07036	Selenium	SW-846 6010B	1	132311848002	08/23/2013 20:34	John P Hook	1
07066	Silver	SW-846 6010B	1	132311848002	08/23/2013 20:34	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132311848002	08/23/2013 20:34	John P Hook	1
00259	Mercury	SW-846 7470A	1	132315713004	08/21/2013 11:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132311848002	08/20/2013 10:39	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132315713004	08/20/2013 13:50	Katlin N Cataldi	1

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

Quality Control SummaryClient Name: ExxonMobil c/o Arcadis
Reported: 08/24/13 at 10:20 AM

Group Number: 1412296

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: 132311848002	Sample number(s): 7165491-7165510								
Arsenic	N.D.	0.0068	0.0200	mg/l	100		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	102		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	102		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	104		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	98		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	98		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	101		90-110		
Batch number: 132315713004	Sample number(s): 7165491-7165510								
Mercury	N.D.	0.00006	0.00020	mg/l	99		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: 132311848002	Sample number(s): 7165491-7165510 UNSPK: 7165497 BKG: 7165497								
Arsenic	101	101	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	103	103	78-118	0	20	0.0126	0.0125	1 (1)	20
Cadmium	104	102	83-116	2	20	N.D.	N.D.	0 (1)	20
Chromium	102	101	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	104	102	75-125	2	20	N.D.	N.D.	0 (1)	20
Nickel	106	104	86-115	2	20	N.D.	N.D.	0 (1)	20
Selenium	98	97	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	98	100	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	102	102	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132315713004	Sample number(s): 7165491-7165510 UNSPK: 7165497 BKG: 7165497								
Mercury	100	100	80-120	0	20	N.D.	N.D.	0 (1)	20

*- Outside of specification

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

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

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

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
Group # 1412296 Sample # 7165491-510
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix		5 Analyses Requested										6 Remarks	
Preservation Code						Preservation Codes											
Facility #/SID Mayflower Pipeline Incident Site Address Mayflower AR ExxonMobil PM Scott Bushroe Consultant/Office Arcadis Consultant PM Steve Barrick Consultant Phone # 919-202-6799 Sampler H. VanAllen						Sediment ☐ Ground ☐ Surface ☒ Potable ☐ NPDES ☐ Water ☐ Air ☐		H ☐ Z ☐ # ☐ VOC'S 8260B PAH'S 8270 SIM ARARA Metals-N, V, Cu, Pb Diss Metals HEM Oil & Grease									
2 Sample Identification				3 Composite		Total # of Containers											
Date Time Grab Composite WS-014 (1.5-2.0) 081613 825 X WS-014 (5.5-6.0) 081613 835 X WS-012 (1.5-2.0) 081613 850 X WS-012 (5.0-5.5) 081613 855 X WS-010 (1.5-2.0) 081613 915 X WS-10 (3.5-4.0) 081613 920 X WS-006 (0.5-1.0) 081613 935 X WS-006 (0.5-1.0) 081613 M3/m3 935 X WS-005 (surface) 081613 1015 X WS-002 (surface) 081613 1040 X WS-018 (surface) 081613 1100 X WS-011 (1.5-2.0) 081613 1120 X						VOC'S 8260B PAH'S 8270 SIM ARARA Metals-N, V, Cu, Pb Diss Metals HEM Oil & Grease											
7 Turnaround Time Requested (TAT) (please circle)				8 Data Package (circle if required)		9											
Standard 5 day 4 day 72 hour 48 hour 24 hour				EDD (circle if required) Locus EIM (default) Other		Relinquished by H. VanAllen Date 8/16/13 Time 1600 Relinquished by Date Time Relinquished by Date Time Relinquished by Commercial Carrier Date Time UPS X FedEx Other Temperature Upon Receipt 0.8-2.0°C Custody Seals Intact? Yes No											

eurofins

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
Group # 1412296 Sample # 7165491-510
Instructions on reverse side correspond with circled numbers.

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

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

Rachel L. Kreamer A# 14739 Gr# 1412296 Samples 7105491-510

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Monday, August 19, 2013 8:30 AM
To: Rachel L. Kreamer
Cc: Kathy Klinefelter
Subject: RE: Sample IDs for surface waters received Saturday

Rachel,

Yes, please log these samples in with the leading 0 to be consistent with previous naming.

Thank you,
Lyndi Mott

-----Original Message-----

From: Rachel L. Kreamer [mailto:RKreamer@lanasterlabs.com]
Sent: Monday, August 19, 2013 7:09 AM
To: Mott, Lyndi
Cc: Kathy Klinefelter
Subject: Sample IDs for surface waters received Saturday

Lyndi,

Should the IDs listed on the chain as WS-10(3.5-4.0)081613 and
WS-11(5.0-5.5)081613 be WS-010(3.5-4.0)081613 and WS-011(5.0-5.5)081613?

Thanks
Rachel

-----Original Message-----

From: 39Scanner@lanasterlabs.com [mailto:39Scanner@lanasterlabs.com]
Sent: Monday, August 19, 2013 8:02 AM
To: Rachel L. Kreamer
Subject:

This E-mail was sent from "RNP367EC2" (MP 4001/LD140).

Scan Date: 08.19.2013 08:01:39 (-0400)
Queries to: 39Scanner@lanasterlabs.com

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Environmental Sample Administration
Receipt Documentation Log

C#1412296

Client/Project: Exxon MobilShipping Container Sealed: YES NODate of Receipt: 8/17/13Custody Seal Present *: YES NOTime of Receipt: 900* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 60-1Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.6	TB	WI	Y	B	
2		2.0					
3		1.0					
4		0.8					
5		1.6					
6		1.1					

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:

2308

Date/Time:

8/17/13 1045

Issued by Dept. 6042 Management

2174.06

Environmental Sample Administration
Receipt Documentation Log

C#1412296

Client/Project: ExxonMobilShipping Container Sealed: (YES) NODate of Receipt: 8/17/13Custody Seal Present *: (YES) NOTime of Receipt: 900* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 60-1Package: (Chilled) Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
<u>1/7</u>	<u>DT121</u>	<u>0.8</u>	<u>TB</u>	<u>WI</u>	<u>Y</u>	<u>B</u>	
<u>2/8</u>	<u>↓</u>	<u>0.9</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	
<u>3/8</u>	<u>↓</u>	<u>0.6</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	
<u>4/10</u>	<u>↓</u>	<u>0.2</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	
<u>5</u>			<u>↓</u>				
<u>6</u>							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:

[Signature] 2308

Date/Time:

8/17/13 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 <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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

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