

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

August 25, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 08/20/2013

Group Number: 1412632

SDG: PEK83

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample DescriptionLancaster Labs (LL) #

WS-014(1.5-2.0)081713 Filt Grab Surface Water	7167033
WS-014(5.5-6.0)081713 Filt Grab Surface Water	7167034
WS-012(1.5-2.0)081713 Filt Grab Surface Water	7167035
WS-012(5.0-5.5)081713 Filt Grab Surface Water	7167036
WS-010(1.5-2.0)081713 Filt Grab Surface Water	7167037
WS-010(3.5-4.0)081713 Filt Grab Surface Water	7167038
WS-006(0.5-1.0)081713 Filt Grab Surface Water	7167039
WS-005(Surface)081713 Filt Grab Surface Water	7167040
WS-002(Surface)081713 Filt Grab Surface Water	7167041
WS-018(Surface)081713 Filt Grab Surface Water	7167042
WS-011(1.5-2.0)081713 Filt Grab Surface Water	7167043
WS-011(5.0-5.5)081713 Filt Grab Surface Water	7167044
WS-003(Surface)081713 Filt Grab Surface Water	7167045
WS-007(0.5-1.0)081713 Filt Grab Surface Water	7167046
WS-001(0.5-1.0)081713 Filt Grab Surface Water	7167047
WS-BKG-002(Surface)081713 Filt Grab Surface Water	7167048
DUP-WS-72-081713 Filt Grab Surface Water	7167049
WS-EB-33-081713 Filt Grab Water	7167050

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

ELECTRONIC ARCADIS

Attn: Stephen Barrick

COPY TO

ELECTRONIC ARCADIS

Attn: Lyndi Mott

COPY TO

ELECTRONIC ExxonMobil

Attn: Michael J. Firth

COPY TO

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 #: 1412632

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

No additional comments are necessary.

Sample Description: WS-014(1.5-2.0)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167033
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 08:20 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

1714F SDG#: PEK83-01

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	0.0189	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	132331848002	08/24/2013 23:36	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/24/2013 23:36	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/24/2013 23:36	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/24/2013 23:36	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/24/2013 23:36	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/24/2013 23:36	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/24/2013 23:36	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/24/2013 23:36	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/24/2013 23:36	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 07:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167034
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 08:25 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

17F14 SDG#: PEK83-02

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	0.0201	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	132331848002	08/24/2013 23:40	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/24/2013 23:40	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/24/2013 23:40	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/24/2013 23:40	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/24/2013 23:40	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/24/2013 23:40	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/24/2013 23:40	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/24/2013 23:40	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/24/2013 23:40	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 07:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167035
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 08:45 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

1712F SDG#: PEK83-03

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

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132331848002	08/24/2013 23:52	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/24/2013 23:52	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/24/2013 23:52	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/24/2013 23:52	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/24/2013 23:52	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/24/2013 23:52	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/24/2013 23:52	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/24/2013 23:52	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/24/2013 23:52	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 07:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167036
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 08:50 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

17F12 SDG#: PEK83-04

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	0.0176	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	132331848002	08/24/2013 23:56	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/24/2013 23:56	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/24/2013 23:56	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/24/2013 23:56	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/24/2013 23:56	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/24/2013 23:56	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/24/2013 23:56	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/24/2013 23:56	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/24/2013 23:56	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 07:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167037
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 09:10 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

1710F SDG#: PEK83-05

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	0.0156	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	132331848002	08/25/2013 00:00	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/25/2013 00:00	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/25/2013 00:00	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/25/2013 00:00	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/25/2013 00:00	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/25/2013 00:00	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/25/2013 00:00	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/25/2013 00:00	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/25/2013 00:00	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 07:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167038
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 09:15 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

17F10 SDG#: PEK83-06

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	0.0152	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	132331848002	08/25/2013 00:04	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/25/2013 00:04	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/25/2013 00:04	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/25/2013 00:04	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/25/2013 00:04	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/25/2013 00:04	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/25/2013 00:04	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/25/2013 00:04	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/25/2013 00:04	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 07:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167039
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 09:30 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

1706F SDG#: PEK83-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0171	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132331848002	08/24/2013 23:12	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/24/2013 23:12	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/24/2013 23:12	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/24/2013 23:12	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/24/2013 23:12	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/24/2013 23:12	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/24/2013 23:12	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/24/2013 23:12	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/24/2013 23:12	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 07:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167040
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 10:00 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

17F06 SDG#: PEK83-08

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	0.0194	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	132331848002	08/25/2013 00:08	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/25/2013 00:08	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/25/2013 00:08	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/25/2013 00:08	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/25/2013 00:08	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/25/2013 00:08	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/25/2013 00:08	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/25/2013 00:08	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/25/2013 00:08	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 07:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167041
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 10:40 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

1702F SDG#: PEK83-09

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	0.0162	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	132331848002	08/25/2013 00:12	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/25/2013 00:12	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/25/2013 00:12	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/25/2013 00:12	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/25/2013 00:12	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/25/2013 00:12	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/25/2013 00:12	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/25/2013 00:12	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/25/2013 00:12	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 07:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-018(Surface)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167042
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 11:00 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

1718F SDG#: PEK83-10

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	0.0219	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	132331848002	08/25/2013 00:16	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/25/2013 00:16	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/25/2013 00:16	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/25/2013 00:16	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/25/2013 00:16	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/25/2013 00:16	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/25/2013 00:16	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/25/2013 00:16	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/25/2013 00:16	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 07:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167043
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 11:15 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

1711F SDG#: PEK83-11

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	0.0162	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	132331848002	08/25/2013 00:20	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/25/2013 00:20	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/25/2013 00:20	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/25/2013 00:20	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/25/2013 00:20	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/25/2013 00:20	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/25/2013 00:20	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/25/2013 00:20	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/25/2013 00:20	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 07:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167044
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 11:20 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

17F11 SDG#: PEK83-12

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	0.0349	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132331848002	08/25/2013 00:24	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/25/2013 00:24	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/25/2013 00:24	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/25/2013 00:24	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/25/2013 00:24	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/25/2013 00:24	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/25/2013 00:24	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/25/2013 00:24	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/25/2013 00:24	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 08:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-003(Surface)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167045
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 11:30 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

1703F SDG#: PEK83-13

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	0.0174	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	132331848002	08/25/2013 00:28	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/25/2013 00:28	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/25/2013 00:28	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/25/2013 00:28	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/25/2013 00:28	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/25/2013 00:28	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/25/2013 00:28	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/25/2013 00:28	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/25/2013 00:28	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 08:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167046
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 11:50 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

1707F SDG#: PEK83-14

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	0.0201	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	132331848002	08/25/2013 00:40	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/25/2013 00:40	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/25/2013 00:40	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/25/2013 00:40	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/25/2013 00:40	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/25/2013 00:40	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/25/2013 00:40	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/25/2013 00:40	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/25/2013 00:40	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 08:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167047
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 12:00 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

1701F SDG#: PEK83-15

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	0.0163	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	132331848002	08/25/2013 00:44	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/25/2013 00:44	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/25/2013 00:44	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/25/2013 00:44	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/25/2013 00:44	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/25/2013 00:44	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/25/2013 00:44	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/25/2013 00:44	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/25/2013 00:44	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 08:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-BKG-002(Surface)081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167048
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 12:15 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

17B2F SDG#: PEK83-16

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	0.0070 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0245	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.0021 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132331848002	08/25/2013 00:48	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/25/2013 00:48	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/25/2013 00:48	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/25/2013 00:48	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/25/2013 00:48	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/25/2013 00:48	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/25/2013 00:48	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/25/2013 00:48	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/25/2013 00:48	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 08:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: DUP-WS-72-081713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167049
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

1772F SDG#: PEK83-17FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0090 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0160	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	132331848002	08/25/2013 00:52	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/25/2013 00:52	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/25/2013 00:52	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/25/2013 00:52	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/25/2013 00:52	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/25/2013 00:52	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/25/2013 00:52	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/25/2013 00:52	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/25/2013 00:52	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 08:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Sample Description: WS-EB-33-081713 Filt Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7167050
LL Group # 1412632
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/17/2013 13:00 by HVA

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

Submitted: 08/20/2013 09:10

Reported: 08/25/2013 06:18

1733F SDG#: PEK83-18EB*

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	0.00035 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	132331848002	08/25/2013 00:56	John P Hook	1
07046	Barium	SW-846 6010B	1	132331848002	08/25/2013 00:56	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132331848002	08/25/2013 00:56	John P Hook	1
07051	Chromium	SW-846 6010B	1	132331848002	08/25/2013 00:56	John P Hook	1
07055	Lead	SW-846 6010B	1	132331848002	08/25/2013 00:56	John P Hook	1
07061	Nickel	SW-846 6010B	1	132331848002	08/25/2013 00:56	John P Hook	1
07036	Selenium	SW-846 6010B	1	132331848002	08/25/2013 00:56	John P Hook	1
07066	Silver	SW-846 6010B	1	132331848002	08/25/2013 00:56	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132331848002	08/25/2013 00:56	John P Hook	1
00259	Mercury	SW-846 7470A	1	132335713002	08/23/2013 08:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132331848002	08/22/2013 11:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132335713002	08/22/2013 15:35	Nelli S Markaryan	1

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

Quality Control SummaryClient Name: ExxonMobil c/o Arcadis
Reported: 08/25/13 at 06:18 AM

Group Number: 1412632

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: 132331848002	Sample number(s): 7167033-7167050								
Arsenic	N.D.	0.0068	0.0200	mg/l	99		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	97		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	100		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	98		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	100		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	102		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	100		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	90		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	99		90-110		
Batch number: 132335713002	Sample number(s): 7167033-7167050								
Mercury	N.D.	0.00006	0.00020	mg/l	103		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: 132331848002	Sample number(s): 7167033-7167050 UNSPK: 7167039 BKG: 7167039								
Arsenic	101	102	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	98	98	78-118	0	20	0.0171	0.0171	0 (1)	20
Cadmium	101	100	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	100	99	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	101	102	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	102	102	86-115	1	20	N.D.	N.D.	0 (1)	20
Selenium	99	98	75-125	2	20	N.D.	N.D.	0 (1)	20
Silver	89	91	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	101	100	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132335713002	Sample number(s): 7167033-7167050 UNSPK: 7167045 BKG: 7167045								
Mercury	101	102	80-120	1	20	N.D.	N.D.	0 (1)	20

*- Outside of specification

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

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

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

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
Group # 1412632 Sample # 7167033-SO
Instructions on reverse side correspond with circled numbers.

1 of 3

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks																	
Facility #/SID <u>Mayflower Pipeline Incident</u>				Site Address <u>Mayflower, AR</u>				ExxonMobil PM <u>Scott Bushroe</u>				Cost Center/AFE				Consultant/Office <u>ARCADIS</u>						Consultant PM <u>Steve Barrick</u>				Consultant Phone # <u>919-202-6799</u>				Sampler <u>H. Van Allen</u>				Preservation Code			
Sample Identification				Collected		Grab		Composite		Soil		Water		Oil		Total # of Containers		H N H												H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other							
WS-014(1.5-2.0)081713				8/17/13		820		X				X				9		X X X X X																			
WS-014(5.5-6.0)081713						825		X				X				9		X X X X X																			
WS-012(1.5-2.0)081713						845		X				X				9		X X X X X																			
WS-012(5.0-5.5)081713						850		X				X				9		X X X X X																			
WS-010(1.5-2.0)081713						910		X				X				9		X X X X X																			
WS-010(3.5-4.0)081713						915		X				X				9		X X X X X																			
WS-COG(0.5-1.0)081713						930		X				X				9		X X X X X																			
WS-005(Surface)081713						1000		X				X				9		X X X X X																			
WS-002(Surface)081713						1040		X				X				9		X X X X X																			
WS-018(Surface)081713						1100		X				X				9		X X X X X																			
WS-011(1.5-2.0)081713						1115		X				X				9		X X X X X																			
WS-011(5.0-5.5)081713				✓		1120		X				X				9		X X X X X																			

7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>[Signature]</u>		Date <u>8/15/13</u>		Time <u>1800</u>		Received by		Date		Time	
Standard <u>5 day</u> 4 day				Relinquished by		Date		Time		Received by		Date		Time	
72 hour 48 hour 24 hour				Relinquished by		Date		Time		Received by		Date		Time	
8 Data Package (circle if required)				Relinquished by Commercial Carrier		Date		Time		Received by		Date		Time	
Type I - Full				Locus EIM (default)		UPS <u>X</u> FedEx Other <u>Southwest</u>		Temperature Upon Receipt <u>0.3-24c</u>		Custody Seals Intact?		Yes <u>(circled)</u> No		9	
Type VI (Raw Data)				Other		Date <u>8.20.13</u>		Time <u>910</u>		Received by <u>[Signature]</u>		Date		Time	
NJ Reduced				Other		Date		Time		Received by		Date		Time	
Other				Other		Date		Time		Received by		Date		Time	

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

7053 0713



ExxonMobil Analysis Request/Chain of Custody

Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
Group # 1412632 Sample # 7167033-50
Instructions on reverse side correspond with circled numbers.

2 of 3

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks	
Facility #/SID <u>Mayflower Pipeline Incident</u>				☐ Sediment ☐ Potable ☐ Ground ☐ NPDES ☒ Surface ☐ Air				Preservation Code												SCR#:	
Site Address <u>Mayflower, AR</u>								H N H												Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other	
ExxonMobil PM <u>Scott Bushroe</u>				Cost Center/AFE				VOL 8260B PAHs 8270 SIM RCRA Metals M.V. Ca, Mg Diss. Metals HEM Oil & Grease												6	
Consultant/Office <u>ARCADIS</u>				Consultant PM <u>Steve Barrick</u>																	
Sampler <u>H. Van Allen</u>				3				Total # of Containers													
2 Sample Identification				Collected																	
				Date Time Grab Composite																	
WS-003(surface)081713				8/17/13 1130 X				9 X X X X X													
WS-007(0.5-1.0)081713				1150 X				9 X X X X X													
WS-001(0.5-1.0)081713				1200 X				9 X X X X X													
WS-BKG-002(surface)081713				1215 X				9 X X X X X													
DUP-WS-70281713				X				9 X X X X X													
WS-EB-33-081713				1300				7 X X X X													
WS-TB-106-081813				8/18/13				2 X													
WS-014(1.5-2.0)081813				835 X				9 X X X X X													
WS-014(5.5-6.0)081813				840 X				9 X X X X X													
WS-012(1.5-2.0)081813				905 X				9 X X X X X													
WS-012(5.0-5.5)081813				910 X				9 X X X X X													
WS-010(1.5-2.0)081813				930 X				9 X X X X X													
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>H. Van Allen</u>				Date <u>8/18/13</u>				Time <u>1800</u>				Received by				Date Time 9	
Standard <u>5 day</u> 4 day				Relinquished by				Date				Time				Received by				Date Time	
72 hour 48 hour 24 hour				Relinquished by				Date				Time				Received by				Date Time	
8 Data Package (circle if required)				Relinquished by Commercial Carrier				Date				Time				Received by				Date Time	
Type I - Full				UPS <u>X</u> FedEx Other <u>Southwest</u>				Temperature Upon Receipt <u>0.3-2.4 °C</u>				Custody Seals Intact? <u>Yes</u>				No					
Type VI (Raw Data)																					
NJ Reduced																					
Other																					

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

Environmental Sample Administration 141263 2
Receipt Documentation LogClient/Project: Exxon mobilShipping Container Sealed: YES NODate of Receipt: 8-20-13Custody Seal Present *: YES NOTime of Receipt: 910

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

Source 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	DTH6	0.5	TB	WI	X	B	
2	↓	0.5	↓	↓	↓	↓	
3	↓	1.6	↓	↓	↓	↓	
4	↓	0.5	↓	↓	↓	↓	
5	↓	0.6	↓	↓	↓	↓	
6	↓	1.0	↓	↓	↓	↓	

Number of Trip Blanks received NOT listed on chain of custody: 0Paperwork Discrepancy/Unpacking Problems: 08/18/13 (RUK 8/21/13)WS-007 (0.5-1.0) Time = 1210 - Grs. 1412650 + 1412654EB-034 Rec ? Total Did not Rec O2G
Gr. 1412650

Unpacker Signature/Emp#:

Brenely Baely

2299

Date/Time:

8-20-13 1035

Issued by Dept. 6042 Management

Environmental Sample Administration 1412632
Receipt Documentation LogClient/Project: Exxon mobilShipping Container Sealed: YES NODate of Receipt: 8.20.13Custody Seal Present *: YES NOTime of Receipt: 910* 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
17	D+146	2.1	TB	WI	X	B	
18		2.4					
19		0.5					
110		2.1					
111		0.3					
112	✓	0.8	✓	✓	✓	✓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:

Brenely Baulch 2299

Date/Time:

8.20.13 1035

Issued by Dept. 6042 Management

Environmental Sample Administration
Receipt Documentation Log

1412632

Client/Project: Exxon mobilDate of Receipt: 8-20-13Time of Receipt: 910Source Code: 60-1Shipping Container Sealed: YES NOCustody Seal Present *: YES NO* Custody seal was intact unless otherwise noted in the
discrepancy sectionPackage: 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
Y13	DH146	1.7	TB	WI	X	B	
Y14	↓	0.6	↓	↓	↓	↓	
Y15	↓	2.4	↓	↓	↓	↓	
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Buanelly Barely 2299 Date/Time: 8-20-13 1035

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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