

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

September 26, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 09/23/2013

Group Number: 1420760

SDG: PEL67

PO Number: B0086003.1301

State of Sample Origin: AR

Client Sample DescriptionLancaster Labs (LL) #

WS-014(1.5-2.0)092213 Filt Grab Surface Water	7207772
WS-014(5.5-6.0)092213 Filt Grab Surface Water	7207773
WS-012(1.5-2.0)092213 Filt Grab Surface Water	7207774
WS-012(5.0-5.5)092213 Filt Grab Surface Water	7207775
WS-010(1.5-2.0)092213 Filt Grab Surface Water	7207776
WS-010(3.5-4.0)092213 Filt Grab Surface Water	7207777
WS-006(0.5-1.0)092213 Filt Grab Surface Water	7207778
WS-005(Surface)092213 Filt Grab Surface Water	7207779
WS-002(Surface)092213 Filt Grab Surface Water	7207780
WS-011(1.5-2.0)092213 Filt Grab Surface Water	7207781
WS-011(5.0-5.5)092213 Filt Grab Surface Water	7207782
WS-018(Surface)092213 Filt Grab Surface Water	7207783
WS-003(Surface)092213 Filt Grab Surface Water	7207784
WS-007(0.5-1.0)092213 Filt Grab Surface Water	7207785
WS-001(0.5-1.0)092213 Filt Grab Surface Water	7207786
DUP-WS-091-092213 Filt Grab Surface Water	7207787
WS-EB-69-092213 Filt Grab Water	7207788

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

ELECTRONIC COPY TO
ARCADIS

Attn: Stephen Barrick

ELECTRONIC COPY TO
ARCADIS

Attn: Lyndi Mott

ELECTRONIC COPY TO
ExxonMobil

Attn: Michael J. Firth

ELECTRONIC COPY TO
ARCADIS

Attn: Emily Leamer

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

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1420760

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)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207772
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 09:00 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W014F SDG#: PEL67-01

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	0.0203	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	132671848005	09/26/2013 04:04	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 04:04	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 04:04	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 04:04	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 04:04	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 04:04	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 04:04	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 04:04	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 04:04	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 06:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-014(5.5-6.0)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207773
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 09:10 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W145F SDG#: PEL67-02

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	0.0199	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	132671848005	09/26/2013 04:08	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 04:08	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 04:08	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 04:08	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 04:08	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 04:08	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 04:08	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 04:08	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 04:08	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 06:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-012(1.5-2.0)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207774
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 09:30 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W12-F SDG#: PEL67-03

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

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132671848005	09/26/2013 04:19	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 04:19	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 04:19	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 04:19	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 04:19	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 04:19	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 04:19	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 04:19	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 04:19	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 06:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-012(5.0-5.5)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207775
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 09:40 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W125F SDG#: PEL67-04

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	0.0198	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	132671848005	09/26/2013 03:42	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 03:42	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 03:42	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 03:42	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 03:42	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 03:42	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 03:42	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 03:42	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 03:42	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 06:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-010(1.5-2.0)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207776
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 10:00 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W102F SDG#: PEL67-05

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	0.0198	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	132671848005	09/26/2013 04:23	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 04:23	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 04:23	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 04:23	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 04:23	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 04:23	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 04:23	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 04:23	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 04:23	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 06:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-010(3.5-4.0)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207777
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 10:10 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W105F SDG#: PEL67-06

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	0.0198	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	132671848005	09/26/2013 04:26	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 04:26	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 04:26	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 04:26	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 04:26	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 04:26	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 04:26	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 04:26	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 04:26	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 06:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-006(0.5-1.0)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207778
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 10:20 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W6-1F SDG#: PEL67-07

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	0.0188	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	132671848005	09/26/2013 04:30	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 04:30	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 04:30	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 04:30	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 04:30	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 04:30	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 04:30	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 04:30	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 04:30	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 06:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-005(Surface)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207779
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 10:50 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W5SWF SDG#: PEL67-08

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	0.0217	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	132671848005	09/26/2013 04:34	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 04:34	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 04:34	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 04:34	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 04:34	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 04:34	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 04:34	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 04:34	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 04:34	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 06:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-002(Surface)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207780
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 11:15 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W2SWF SDG#: PEL67-09

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	0.0214	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	132671848005	09/26/2013 04:37	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 04:37	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 04:37	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 04:37	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 04:37	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 04:37	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 04:37	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 04:37	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 04:37	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 07:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-011(1.5-2.0)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207781
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 11:30 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W11-F SDG#: PEL67-10

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	0.0199	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	132671848005	09/26/2013 04:41	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 04:41	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 04:41	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 04:41	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 04:41	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 04:41	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 04:41	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 04:41	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 04:41	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 07:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-011(5.0-5.5)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207782
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 11:40 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W115F SDG#: PEL67-11

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	0.0202	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132671848005	09/26/2013 04:45	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 04:45	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 04:45	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 04:45	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 04:45	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 04:45	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 04:45	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 04:45	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 04:45	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 07:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-018(Surface)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207783
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 08:15 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W18-F SDG#: PEL67-12

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	0.0461	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	132671848005	09/26/2013 04:48	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 04:48	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 04:48	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 04:48	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 04:48	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 04:48	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 04:48	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 04:48	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 04:48	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 07:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-003(Surface)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207784
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 08:20 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W03-F SDG#: PEL67-13

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	0.0264	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	132671848005	09/26/2013 04:52	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 04:52	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 04:52	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 04:52	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 04:52	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 04:52	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 04:52	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 04:52	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 04:52	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 07:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-007(0.5-1.0)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207785
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 11:50 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W07-F SDG#: PEL67-14

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	0.0241	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	132671848005	09/26/2013 05:03	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 05:03	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 05:03	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 05:03	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 05:03	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 05:03	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 05:03	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 05:03	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 05:03	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 07:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-001(0.5-1.0)092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207786
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 12:00 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W01-F SDG#: PEL67-15

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	0.0180	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	132671848005	09/26/2013 05:07	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 05:07	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 05:07	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 05:07	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 05:07	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 05:07	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 05:07	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 05:07	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 05:07	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 07:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: DUP-WS-091-092213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207787
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

W0FDF SDG#: PEL67-16FD

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	0.0191	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	132671848005	09/26/2013 05:11	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 05:11	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 05:11	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 05:11	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 05:11	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 05:11	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 05:11	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 05:11	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 05:11	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 07:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Sample Description: WS-EB-69-092213 Filt Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7207788
LL Group # 1420760
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 09/22/2013 13:00 by RL

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

Submitted: 09/23/2013 14:08

Reported: 09/26/2013 11:40

WOEBF SDG#: PEL67-17EB*

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	0.0026 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	132671848005	09/26/2013 05:14	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132671848005	09/26/2013 05:14	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132671848005	09/26/2013 05:14	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132671848005	09/26/2013 05:14	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132671848005	09/26/2013 05:14	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132671848005	09/26/2013 05:14	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132671848005	09/26/2013 05:14	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132671848005	09/26/2013 05:14	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132671848005	09/26/2013 05:14	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132675713004	09/26/2013 07:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132671848005	09/24/2013 22:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132675713004	09/25/2013 06:00	Damary Valentin	1

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

Quality Control SummaryClient Name: ExxonMobil c/o Arcadis
Reported: 09/26/13 at 11:40 AM

Group Number: 1420760

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: 132671848005	Sample number(s): 7207772-7207788								
Arsenic	N.D.	0.0068	0.0200	mg/l	108		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	102		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	104		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	97		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	103		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	109		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	106		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	112		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	103		90-110		
Batch number: 132675713004	Sample number(s): 7207772-7207788								
Mercury	N.D.	0.00006	0.00020	mg/l	95		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: 132671848005	Sample number(s): 7207772-7207788 UNSPK: 7207775 BKG: 7207775								
Arsenic	110	109	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	101	103	78-118	2	20	0.0198	0.0197	0 (1)	20
Cadmium	103	104	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	96	98	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	101	101	75-125	0	20	N.D.	N.D.	0 (1)	20
Nickel	108	108	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	105	106	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	110	112	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	102	105	90-111	2	20	N.D.	N.D.	0 (1)	20
Batch number: 132675713004	Sample number(s): 7207772-7207788 UNSPK: 7207772 BKG: 7207772								
Mercury	95	97	80-120	2	20	N.D.	N.D.	0 (1)	20

*- Outside of specification

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

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

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

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only

Group # 1420760 Sample # 7207772-88

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 ☐ Ground ☒ Surface ☐ Potable ☐ NPDES ☐ Air ☐ Oil				Preservation Code H ☐ V ☐ H ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐												Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other	
Site Address <u>Mayflower, AR</u>								Total # of Containers <u>VOCs 8260 B</u> <u>PAH 8270 SIM</u> <u>RCMA Metals Cu, Ni, V, Mg</u> <u>Diss Metals</u> <u>HEM OI & Grease</u>													
ExxonMobil PM <u>Scott Bushroe</u>																					
Consultant/Office <u>ARCADIS</u>																					
Consultant PM <u>Steve Barrick</u>				Consultant Phone # <u>919-302-6799</u>																	
Sampler <u>Ryan Lewis, Johnny Beasley</u>																					
2 Sample Identification			3 Collected		Grab	Composite															
			Date	Time																	
WS-003(surface) 092113			9-21-13	1125	X																
WS-007 (0.5-1.0) 092113			9-21-13	1215	X																
WS-001 (0.5-1.0) 092113			9-21-13	1225	X																
WS-006 (0.5-1.0) 092113 MS/MSD			9-21-13	0950	X																
WS-EB-68-092113			9-21-13	1300	X																
WS-014 (1.5-2.0) 092213			9-22-13	0900	X																
WS-014 (5.5-6.0) 092213			9-22-13	0910	X																
WS-012 (1.5-2.0) 092213			9-22-13	0930	X																
WS-012 (5.0-5.5) 092213			9-22-13	0940	X																
WS-010 (1.5-2.0) 092213			9-22-13	1000	X																
WS-010 (3.5-4.0) 092213			9-22-13	1010	X																
WS-006 (0.5-1.0) 092213			9-22-13	1020	X																
7 Turnaround Time Requested (TAT) (please circle) Standard <u>5 day</u> 4 day 72 hour 48 hour 24 hour						Relinquished by <u>[Signature]</u> Date <u>9-22-13</u> Time <u>1500</u>						Received by <u>[Signature]</u> Date <u>9/23/13</u> Time <u>1408</u>									
8 Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____						EDD (circle if required) Locus EIM (default) Other _____						Relinquished by Commercial Carrier UPS _____ FedEx _____ Other <u>Southwest</u>									
						Temperature Upon Receipt <u>0.3-4.5 °C</u>						Custody Seals Intact? <u>Yes</u> No									

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ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only
Group # 1470760 Sample # 7207772-88
Instructions on reverse side correspond with circled numbers.

3 of 3

1 Client Information				4 Matrix		5 Analyses Requested										6 Remarks																														
Facility #/SID <u>Mayflower Pipeline Incident</u>				Total # of Containers		Preservation Code																																								
Site Address <u>Mayflower, AR</u>				Soil	Water	Oil	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>H</td><td>N</td><td>H</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td colspan="15"> VOCS 8260 B PAH 8270 SIM RCRA Metals ^{trace} Cu, Ni, V, Hg Dis. Metals HEM Oil & Grease SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO₃ B = NaOH S = H₂SO₄ O = Other </td> </tr> </table>										H	N	H													VOCS 8260 B PAH 8270 SIM RCRA Metals ^{trace} Cu, Ni, V, Hg Dis. Metals HEM Oil & Grease SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO₃ B = NaOH S = H₂SO₄ O = Other														
H	N	H																																												
VOCS 8260 B PAH 8270 SIM RCRA Metals ^{trace} Cu, Ni, V, Hg Dis. Metals HEM Oil & Grease SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO₃ B = NaOH S = H₂SO₄ O = Other																																														
ExxonMobil PM <u>Scott Bushroe</u>				Sediment		Ground		Surface																																						
Consultant/Office <u>ARCADIS</u>				Potable		NPDES		Air																																						
Consultant PM <u>Steve Barrick</u>				Oil																																										
Consultant Phone # <u>919-302-6799</u>				Grab		Composite																																								
Sampler <u>Ryan Lewis, Johnny Beasley</u>				Date		Time																																								
Sample Identification				Collected																																										
WS-005 (surface) 092213				9-22-13		1050		X		X		X		X																																
WS-002 (surface) 092213				9-22-13		1115		X		X		X		X																																
WS-011 (1.5-2.0) 092213				9-22-13		1130		X		X		X		X																																
WS-011 (5.0-5.5) 092213				9-22-13		1140		X		X		X		X																																
WS-018 (surface) 092213				9-22-13		0815		X		X		X		X																																
WS-003 (surface) 092213				9-22-13		0820		X		X		X		X																																
WS-007 (0.5-1.0) 092213				9-22-13		1150		X		X		X		X																																
WS-001 (0.5-1.0) 092213				9-22-13		1200		X		X		X		X																																
DUP-WS-091-092213				9-22-13		—		X		X		X		X																																
WS-EB-69-092213				9-22-13		1300		X		X		X		X																																
WS-TB-157-092213				9-22-13		—		X		X		X		X																																

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by <u>[Signature]</u>		Date <u>9-22-13</u>		Time <u>1500</u>		Received by		Date		Time		
Standard			5 day		4 day										
72 hour			48 hour		24 hour										
8 Data Package (circle if required)			EDD (circle if required)		Relinquished by Commercial Carrier		Received by		Date		Time		9		
Type I - Full			Locus EIM (default)		UPS		FedEx		Other <u>Southwest</u>		Date		Time		
Type VI (Raw Data)			Other								9/23/13		1408		
NJ Reduced															
Other															
Temperature Upon Receipt <u>03-4.5</u> °C										Custody Seals Intact?		Yes		No	

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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

Environmental Sample Administration
Receipt Documentation LogClient/Project: ExxonMobilShipping Container Sealed: YES NODate of Receipt: 9/23/13Custody Seal Present *: YES NOTime of Receipt: 1408* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 01Package: Chilled Not Chilled

Temperature of Shipping Containers

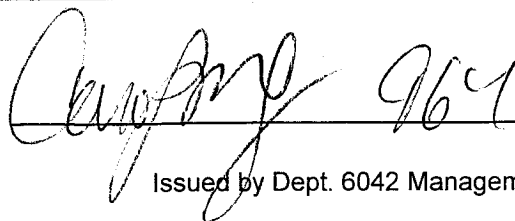
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.1	TB	WI	Y	B	
2	↓	1.0	↓	↓	↓	↓	
3	↓	0.3	↓	↓	↓	↓	
4	↓	1.7	↓	↓	↓	↓	
5	↓	0.4	↓	↓	↓	↓	
6	↓	0.5	↓	↓	↓	↓	

Number of Trip Blanks received NOT listed on chain of custody: 6

Paperwork Discrepancy/Unpacking Problems:

1 bottle ws. 0.18 (surface) 092113 time on 1 bottle = 1105
(Grps 1420752 + 1420753)

Unpacker Signature/Emp#:

Date/Time: 9/23/13 1445

Issued by Dept. 6042 Management

Environmental Sample Administration
Receipt Documentation LogClient/Project: Exxon MobilShipping Container Sealed: YES NODate of Receipt: 9/23/13Custody Seal Present *: YES NOTime of Receipt: 1408* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 01Package: 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	2.2	TB	WI	Y	B	
2		4.5					
3		0.9					
4		3.3					
5		0.9					
6		0.4					

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [Signature]

964

Date/Time: 9/23/13 1445

Issued by Dept. 6042 Management

Environmental Sample Administration
Receipt Documentation LogClient/Project: Exxon MobilShipping Container Sealed: YES NODate of Receipt: 9/23/13Custody Seal Present *: YES NOTime of Receipt: 1408* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 01Package: 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
1/13	DT121	2.8	TB	WI	Y	B	
2							
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:

[Signature] 964

Date/Time:

9/23/13
1445
Call 6
9/23/13

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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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