

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

October 09, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 10/03/2013
Group Number: 1423474
SDG: PEL89
PO Number: B0086003.1301
State of Sample Origin: AR

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
WS-014(1.5-2.0)100213 Filt Grab Surface Water	7222588
WS-014(5.5-6.0)100213 Filt Grab Surface Water	7222589
WS-012(1.5-2.0)100213 Filt Grab Surface Water	7222590
WS-012(5.0-5.5)100213 Filt Grab Surface Water	7222591
WS-010(1.5-2.0)100213 Filt Grab Surface Water	7222592
WS-010(3.5-4.0)100213 Filt Grab Surface Water	7222593
WS-006(0.5-1.0)100213 Filt Grab Surface Water	7222594
WS-005(Surface)100213 Filt Grab Surface Water	7222595
WS-011(1.5-2.0)100213 Filt Grab Surface Water	7222596
WS-011(5.0-5.5)100213 Filt Grab Surface Water	7222597
WS-002(Surface)100213 Filt Grab Surface Water	7222598
WS-018(Surface)100213 Filt Grab Surface Water	7222599
WS-003(Surface)100213 Filt Grab Surface Water	7222600
WS-007(0.5-1.0)100213 Filt Grab Surface Water	7222601
WS-001(0.5-1.0)100213 Filt Grab Surface Water	7222602
DUP-WS-96-100213 Filt Grab Surface Water	7222603
WS-EB-79-100213 Filt Grab Water	7222604

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
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ELECTRONIC	ExxonMobil	Attn: Michael L Sixsmith
COPY TO		
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 #: 1423474

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

Analysis Specific Comments:**SW-846 6010B, Metals Dissolved**

Batch #: 132771848002 (Sample number(s): 7222588-7222604 UNSPK: 7222600 BKG: 7222600)

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

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

Sample Description: WS-014(1.5-2.0)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222588
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 08:50 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-214F SDG#: PEL89-01

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	0.0222	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	132771848002	10/08/2013 20:03	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 20:03	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 20:03	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 20:03	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 20:03	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 20:03	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 20:03	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 20:03	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 20:03	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222589
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 09:00 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-2F14 SDG#: PEL89-02

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	0.0230	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	132771848002	10/08/2013 20:07	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 20:07	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 20:07	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 20:07	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 20:07	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 20:07	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 20:07	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 20:07	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 20:07	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:22	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222590
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 09:20 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-212F SDG#: PEL89-03

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	0.0179	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	132771848002	10/08/2013 20:19	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 20:19	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 20:19	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 20:19	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 20:19	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 20:19	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 20:19	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 20:19	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 20:19	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

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Sample Description: WS-012(5.0-5.5)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222591
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 09:30 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-2F12 SDG#: PEL89-04

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	0.0178	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	132771848002	10/08/2013 20:23	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 20:23	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 20:23	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 20:23	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 20:23	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 20:23	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 20:23	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 20:23	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 20:23	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222592
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 09:50 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-210F SDG#: PEL89-05

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	0.0208	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	132771848002	10/08/2013 20:27	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 20:27	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 20:27	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 20:27	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 20:27	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 20:27	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 20:27	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 20:27	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 20:27	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222593
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 10:00 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-2F10 SDG#: PEL89-06

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

General Sample Comments

This sample was filtered in the 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	132771848002	10/08/2013 20:31	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 20:31	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 20:31	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 20:31	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 20:31	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 20:31	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 20:31	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 20:31	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 20:31	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

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

Sample Description: WS-006(0.5-1.0)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222594
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 10:10 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-206F SDG#: PEL89-07

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	0.0200	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	0.0025 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	132771848002	10/08/2013 20:35	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 20:35	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 20:35	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 20:35	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 20:35	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 20:35	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 20:35	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 20:35	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 20:35	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

Sample Description: WS-005 (Surface)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222595
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 10:40 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-205F SDG#: PEL89-08

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	0.0367	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	132771848002	10/08/2013 20:39	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 20:39	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 20:39	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 20:39	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 20:39	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 20:39	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 20:39	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 20:39	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 20:39	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

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Sample Description: WS-011(1.5-2.0)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222596
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 11:00 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-211F SDG#: PEL89-09

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	0.0193	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	132771848002	10/08/2013 20:43	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 20:43	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 20:43	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 20:43	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 20:43	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 20:43	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 20:43	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 20:43	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 20:43	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222597
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 11:10 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-2F11 SDG#: PEL89-10

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	0.0190	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	132771848002	10/08/2013 20:47	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 20:47	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 20:47	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 20:47	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 20:47	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 20:47	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 20:47	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 20:47	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 20:47	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

Sample Description: WS-002 (Surface)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222598
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 11:30 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-202F SDG#: PEL89-11

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	0.0262	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	132771848002	10/08/2013 20:51	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 20:51	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 20:51	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 20:51	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 20:51	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 20:51	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 20:51	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 20:51	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 20:51	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

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

Sample Description: WS-018 (Surface)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222599
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 11:50 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-218F SDG#: PEL89-12

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	0.0443	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	132771848002	10/08/2013 20:55	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 20:55	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 20:55	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 20:55	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 20:55	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 20:55	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 20:55	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 20:55	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 20:55	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

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

Sample Description: WS-003 (Surface)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222600
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 12:00 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-203F SDG#: PEL89-13

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	0.0079 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0230	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	132771848002	10/08/2013 19:39	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 19:39	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 19:39	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 19:39	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 19:39	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 19:39	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 19:39	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 19:39	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 19:39	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222601
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 12:20 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-207F SDG#: PEL89-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0069 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0165	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the 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	132771848002	10/08/2013 21:07	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 21:07	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 21:07	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 21:07	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 21:07	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 21:07	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 21:07	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 21:07	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 21:07	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

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Sample Description: WS-001(0.5-1.0)100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222602
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 12:40 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-201F SDG#: PEL89-15

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	0.0260	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	132771848002	10/08/2013 21:11	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 21:11	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 21:11	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 21:11	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 21:11	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 21:11	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 21:11	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 21:11	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 21:11	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 10:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

Sample Description: DUP-WS-96-100213 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7222603
LL Group # 1423474
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 10/02/2013 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-296F SDG#: PEL89-16FD

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	0.0198	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	132771848002	10/08/2013 21:15	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 21:15	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 21:15	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 21:15	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 21:15	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 21:15	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 21:15	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 21:15	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 21:15	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 11:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

Sample Description: **WS-EB-79-100213 Filt Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7222604**
 LL Group # **1423474**
 Account # **14739**

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

Collected: 10/02/2013 13:30 by DD

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

Submitted: 10/03/2013 09:15

Reported: 10/09/2013 04:47

-279F SDG#: PEL89-17EB*

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	N.D.	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	132771848002	10/08/2013 21:19	John P Hook	1
07046	Barium	SW-846 6010B	1	132771848002	10/08/2013 21:19	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132771848002	10/08/2013 21:19	John P Hook	1
07051	Chromium	SW-846 6010B	1	132771848002	10/08/2013 21:19	John P Hook	1
07055	Lead	SW-846 6010B	1	132771848002	10/08/2013 21:19	John P Hook	1
07061	Nickel	SW-846 6010B	1	132771848002	10/08/2013 21:19	John P Hook	1
07036	Selenium	SW-846 6010B	1	132771848002	10/08/2013 21:19	John P Hook	1
07066	Silver	SW-846 6010B	1	132771848002	10/08/2013 21:19	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132771848002	10/08/2013 21:19	John P Hook	1
00259	Mercury	SW-846 7470A	1	132765713002	10/07/2013 11:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132771848002	10/06/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132765713002	10/04/2013 17:20	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis
Reported: 10/09/13 at 04:47 AM

Group Number: 1423474

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: 132765713002	Sample number(s): 7222588-7222604								
Mercury	N.D.	0.00006	0.00020	mg/l	103		80-120		
		0							
Batch number: 132771848002	Sample number(s): 7222588-7222604								
Arsenic	N.D.	0.0068	0.0200	mg/l	100		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	99		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	101		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	100		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	106		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	103		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	98		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	91		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	100		90-110		

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: 132765713002	Sample number(s): 7222588-7222604 UNSPK: 7222597 BKG: 7222597								
Mercury	104	102	80-120	2	20	N.D.	N.D.	0 (1)	20
Batch number: 132771848002	Sample number(s): 7222588-7222604 UNSPK: 7222600 BKG: 7222600								
Arsenic	98	97	81-123	1	20	0.0079 J	N.D.	200* (1)	20
Barium	100	100	78-118	0	20	0.0230	0.0231	0 (1)	20
Cadmium	101	101	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	100	101	76-120	1	20	N.D.	N.D.	0 (1)	20
Lead	104	106	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	103	103	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	99	98	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	92	90	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	101	101	90-117	0	20	N.D.	N.D.	0 (1)	20

*- Outside of specification

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

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

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

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only

Group # 1423474 Sample # 7222588-604

Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information				4 Matrix				5 Analyses Requested								6 Remarks				
Facility #/SID <u>May-flower Pipeline Incident</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil <input type="checkbox"/> Water				Preservation Code								SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other				
Site Address <u>Mayflower, AR</u>								H N H VOCs 8260 B PAHs 8270 SIM ACPIA Metals ^{March 2013} N, Ca, V, Mg Diss Metals HEM Dil & Grease												
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE		Total # of Containers												6 Lab to filter & preserve diss metals upon receipt				
Consultant/Office <u>Arcadis</u>																				
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919 302 6799</u>																		
Sampler <u>Dave Drost / Hans Van Aller</u>																				
2 Sample Identification		3 Collected		Grab		Composite														
		Date	Time																	
<u>WS-014(1.5-2.0)100213</u>		<u>10/2/13</u>	<u>850</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-014(3.5-6.0)100213</u>			<u>900</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-012(1.5-2.0)100213</u>			<u>920</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-012(5.0-5.5)100213</u>			<u>950</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-010(1.5-2.0)100213</u>			<u>950</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-010(3.5-4.0)100213</u>			<u>1000</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-006(0.5-1.0)100213</u>			<u>1010</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-005(surface)100213</u>			<u>1040</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-011(1.5-2.0)100213</u>			<u>1100</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-011(1.5-2.0)100213</u>			<u>1110</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-002(surface)100213</u>			<u>1130</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>WS-018(surface)100213</u>			<u>1150</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>9</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

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

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
 Group # 1423474 Sample # 7222588-604
Instructions on reverse side correspond with circled numbers.

2 of 2

1 Client Information					4 Matrix			5 Analyses Requested											6 Remarks																																
Facility #/SID <i>May flower Pipeline Incident</i>					<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Soil <input type="checkbox"/> Air	<input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface	Preservation Code											SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																	
Site Address <i>May flower, AR</i>							Total # of Containers	H N H VOCs 8260B PAH 8270 SIM RCRA Metals ^{Perkins} + Ni, Cr, Mg, V Diss Metals HEM Oil & Grease																																											
ExxonMobil PM <i>Scott Bushroe</i>			Cost Center/AFE					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">U</th> <th style="width: 10%;">N</th> <th style="width: 10%;">H</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> </table>												U	N	H														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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Consultant/Office <i>Arcadis</i>																																																			
Consultant PM <i>Steve Barrick</i>			Consultant Phone # <i>9193026799</i>																																																
Sampler <i>Dave Drost / Hans Van Aller</i>					3	Grab	Composite																																												
2 Sample Identification		Collected		Grab	Composite																																														
Date	Time																																																		
<i>WS-003 (surface) 100213</i>	<i>10/2/13</i>	<i>1200</i>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																																														
<i>WS-007 (0.5-1.0) 100213</i>	<i>10/2/13</i>	<i>1220</i>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																																														
<i>WS-001 (0.5-1.0) 100213</i>	<i>10/2/13</i>	<i>1240</i>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																																														
<i>DUP-WS-96-100213</i>	<i>10/2/13</i>	<i>—</i>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																																														
<i>WS-EB-79-100213</i>	<i>10/2/13</i>	<i>1330</i>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																																														
<i>WS-TB-166-100213</i>	<i>10/2/13</i>	<i>—</i>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																																														

7 Turnaround Time Requested (TAT) (please circle) Standard <u>5 day</u> 4 day 72 hour 48 hour 24 hour	Relinquished by <i>H Van Aller</i>	Date <i>10/2/13</i>	Time <i>1500</i>	Received by <i>[Signature]</i>	Date	Time		
	Relinquished by	Date	Time	Received by	Date	Time		
	Relinquished by	Date	Time	Received by	Date	Time		
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			Received by			
		UPS <input checked="" type="checkbox"/> FedEx _____ Other _____			<i>[Signature]</i>		Date	Time
		Temperature Upon Receipt <u>0.7-1.8</u> °C			Custody Seals Intact? <u>Yes</u> No			
Date <i>10/3/13</i> Time <i>0915</i>								

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

Rachel L. Kreamer *A# 14739, GR# 1423474, Samples 7222588-604*

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Thursday, October 03, 2013 3:17 PM
To: Rachel L. Kreamer
Cc: Kathy Klinefelter; Drost, Dave; Van Aller, Hans
Subject: FW: Sample ID on samples received today

Attachments: 20131003150810794.pdf



2013100315081079
4.pdf (774 KB)...

Rachel,

That is correct based on the field logs. The sample location collected at 1110 is WS-011(5.0-5.5)100213.

Lyndi Mott

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

From: Rachel L. Kreamer [mailto:RKreamer@lancasterlabs.com]
Sent: Thursday, October 03, 2013 2:14 PM
To: Mott, Lyndi
Cc: Kathy Klinefelter
Subject: Sample ID on samples received today

Hi Lyndi.

There are two WS-011(1.5-2.0)100213 samples on today's chain. Per the bottle labels, the set collected at 1110 should be WS-011(5.0-5.5)100213. We'll use this on the reports unless we hear otherwise.

Thanks,
Rachel

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

From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Thursday, October 03, 2013 3:08 PM
To: Rachel L. Kreamer
Subject:

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

Scan Date: 10.03.2013 15:08:10 (-0400)
Queries to: 39Scanner@lancasterlabs.com

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Environmental Sample Administration 1423474
Receipt Documentation Log

Client/Project: Mayflower
Date of Receipt: 10/3/13
Time of Receipt: 0915
Source Code: 60-1

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

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

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT146	1.8	TB	WI	Y	B	
2	↓	1.3	↓	↓	↓	↓	
3		1.2					
4		0.9					
5		0.8					
6		0.7					

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

Paperwork Discrepancy/Unpacking Problems:

WS-011 (1.5-2.0) 100213 coll @ 1110 = (5.0-5.5) on label

Unpacker Signature/Emp#: CEH 3647 Date/Time: 10/3/13 1000

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

ppb parts per billion

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

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A** TIC is a possible aldol-condensation product
- B** Analyte was also detected in the blank
- C** Pesticide result confirmed by GC/MS
- D** Compound quantitated on a diluted sample
- E** Concentration exceeds the calibration range of the instrument
- N** Presumptive evidence of a compound (TICs only)
- P** Concentration difference between primary and confirmation columns $>25\%$
- U** Compound was not detected
- X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- B** Value is $<$ CRDL, but \geq IDL
- E** Estimated due to interference
- M** Duplicate injection precision not met
- N** Spike sample not within control limits
- S** Method of standard additions (MSA) used for calculation
- U** Compound was not detected
- W** Post digestion spike out of control limits
- *** Duplicate analysis not within control limits
- +** Correlation coefficient for MSA <0.995

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

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

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

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

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