ANALYTICAL RESULTS

Prepared by:

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Prepared for:

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

August 12, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 08/08/2013
Group Number: 1410014
SDG: PEK31
PO Number: ARCADIS
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LL) #
WS-014(1.5-2.0)080713 Filt Grab Surface Water	7154133
WS-014(5.5-6.0)080713 Filt Grab Surface Water	7154134
WS-012(1.5-2.0)080713 Filt Grab Surface Water	7154135
WS-012(5.0-5.5)080713 Filt Grab Surface Water	7154136
WS-010(1.5-2.0)080713 Filt Grab Surface Water	7154137
WS-010(3.5-4.0)080713 Filt Grab Surface Water	7154138
WS-006(0.5-1.0)080713 Filt Grab Surface Water	7154139
WS-006(0.5-1.0)080713MS Filt Grab Surface Water	7154140
WS-006(0.5-1.0)080713MSD Filt Grab Surface Water	7154141
WS-006(0.5-1.0)080713DUP Filt Grab Surface Water	7154142
WS-005(Surface)080713 Filt Grab Surface Water	7154143
WS-011(1.5-2.0)080713 Filt Grab Surface Water	7154144
WS-011(5.0-5.5)080713 Filt Grab Surface Water	7154145
WS-003(Surface)080713 Filt Grab Surface Water	7154146
WS-018(Surface)080713 Filt Grab Surface Water	7154147
WS-002(Surface)080713 Filt Grab Surface Water	7154148
WS-007(0.5-1.0)080713 Filt Grab Surface Water	7154149
WS-001(0.5-1.0)080713 Filt Grab Surface Water	7154150
WS-EB-23-080713 Filt Grab Water	7154151

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

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1410014

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

Analysis Specific Comments:

No additional comments are necessary.

Sample Description: WS-014(1.5-2.0)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154133
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 08:10 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F141 SDG#: PEK31-01

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	0.0095	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	132201848002	08/11/2013 22:16	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 22:16	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 22:16	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 22:16	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 22:16	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 22:16	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 22:16	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 22:16	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 22:16	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:20	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154134
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 08:20 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F142 SDG#: PEK31-02

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	0.0101	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	0.0017 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	132201848002	08/11/2013 22:19	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 22:19	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 22:19	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 22:19	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 22:19	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 22:19	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 22:19	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 22:19	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 22:19	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:22	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154135
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 08:30 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F121 SDG#: PEK31-03

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	0.0082	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	132201848002	08/11/2013 22:30	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 22:30	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 22:30	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 22:30	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 22:30	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 22:30	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 22:30	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 22:30	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 22:30	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:24	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154136
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 08:40 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F122 SDG#: PEK31-04

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	0.0202	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	132201848002	08/11/2013 22:34	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 22:34	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 22:34	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 22:34	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 22:34	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 22:34	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 22:34	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 22:34	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 22:34	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:26	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154137
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 08:50 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F101 SDG#: PEK31-05

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	0.0118	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	132201848002	08/11/2013 22:38	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 22:38	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 22:38	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 22:38	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 22:38	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 22:38	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 22:38	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 22:38	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 22:38	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:28	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154138
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 09:00 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F102 SDG#: PEK31-06

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	0.0218	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	0.0018 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	132201848002	08/11/2013 22:41	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 22:41	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 22:41	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 22:41	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 22:41	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 22:41	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 22:41	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 22:41	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 22:41	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:30	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154139
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 09:10 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F006 SDG#: PEK31-07BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0127	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	132201848002	08/11/2013 21:54	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 21:54	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 21:54	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 21:54	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 21:54	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 21:54	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 21:54	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 21:54	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 21:54	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:32	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)080713MS Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154140
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 09:10 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F006 SDG#: PEK31-07MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.152	0.0068	0.0200	1
07046	Barium	7440-39-3	2.03	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0498	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.204	0.0016	0.0150	1
07055	Lead	7439-92-1	0.145	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.511	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.140	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0550	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.498	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.0010	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132201848002	08/11/2013 22:05	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 22:05	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 22:05	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 22:05	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 22:05	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 22:05	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 22:05	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 22:05	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 22:05	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:40	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)080713MSD Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154141
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 09:10 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F006 SDG#: PEK31-07MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.153	0.0068	0.0200	1
07046	Barium	7440-39-3	2.04	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0505	0.00076	0.0050	1
07051	Chromium	7440-47-3	0.204	0.0016	0.0150	1
07055	Lead	7439-92-1	0.146	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.517	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.142	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0556	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.500	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.0010	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132201848002	08/11/2013 22:08	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 22:08	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 22:08	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 22:08	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 22:08	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 22:08	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 22:08	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 22:08	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 22:08	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:42	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)080713DUP Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154142
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 09:10 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F006 SDG#: PEK31-07DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0127	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	132201848002	08/11/2013 22:01	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 22:01	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 22:01	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 22:01	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 22:01	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 22:01	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 22:01	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 22:01	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 22:01	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:34	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154143
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 10:00 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F005 SDG#: PEK31-08

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	0.0133	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	132201848002	08/11/2013 22:45	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 22:45	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 22:45	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 22:45	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 22:45	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 22:45	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 22:45	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 22:45	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 22:45	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:44	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154144
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 10:20 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F111 SDG#: PEK31-09

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	0.0057	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	132201848002	08/11/2013 22:49	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 22:49	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 22:49	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 22:49	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 22:49	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 22:49	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 22:49	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 22:49	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 22:49	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:46	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154145
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 10:30 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F112 SDG#: PEK31-10

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	0.0079	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	132201848002	08/11/2013 22:52	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 22:52	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 22:52	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 22:52	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 22:52	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 22:52	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 22:52	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 22:52	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 22:52	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:48	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-003(Surface)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154146
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 10:40 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F003 SDG#: PEK31-11

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	0.0117	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132201848002	08/11/2013 22:56	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 22:56	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 22:56	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 22:56	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 22:56	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 22:56	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 22:56	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 22:56	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 22:56	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:50	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-018(Surface)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154147
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 10:50 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F018 SDG#: PEK31-12

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	0.0493	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	132201848002	08/11/2013 23:00	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 23:00	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 23:00	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 23:00	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 23:00	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 23:00	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 23:00	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 23:00	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 23:00	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:52	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154148
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 11:10 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F002 SDG#: PEK31-13

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	0.0085	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	132201848002	08/11/2013 23:03	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 23:03	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 23:03	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 23:03	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 23:03	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 23:03	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 23:03	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 23:03	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 23:03	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:54	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154149
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 11:30 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F007 SDG#: PEK31-14

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	0.0194	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
07061	Nickel	7440-02-0	0.0021 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

This sample was filtered in the lab for dissolved metals.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	132201848002	08/11/2013 23:14	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 23:14	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 23:14	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 23:14	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 23:14	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 23:14	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 23:14	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 23:14	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 23:14	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:56	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)080713 Filt Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154150
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 11:40 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7F001 SDG#: PEK31-15

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	0.0175	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	0.0016 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	0.00014 J	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	132201848002	08/11/2013 23:18	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 23:18	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 23:18	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 23:18	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 23:18	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 23:18	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 23:18	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 23:18	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 23:18	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 13:58	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Sample Description: WS-EB-23-080713 Filt Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7154151
LL Group # 1410014
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/07/2013 14:00 by JW

Submitted: 08/08/2013 09:50
Reported: 08/12/2013 14:47

ExxonMobil
Mobil Pipeline Company
PO Box 4416
Houston TX 77210-4416

7FE23 SDG#: PEK31-16EB*

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	132201848002	08/11/2013 23:21	John P Hook	1
07046	Barium	SW-846 6010B	1	132201848002	08/11/2013 23:21	John P Hook	1
07049	Cadmium	SW-846 6010B	1	132201848002	08/11/2013 23:21	John P Hook	1
07051	Chromium	SW-846 6010B	1	132201848002	08/11/2013 23:21	John P Hook	1
07055	Lead	SW-846 6010B	1	132201848002	08/11/2013 23:21	John P Hook	1
07061	Nickel	SW-846 6010B	1	132201848002	08/11/2013 23:21	John P Hook	1
07036	Selenium	SW-846 6010B	1	132201848002	08/11/2013 23:21	John P Hook	1
07066	Silver	SW-846 6010B	1	132201848002	08/11/2013 23:21	John P Hook	1
07071	Vanadium	SW-846 6010B	1	132201848002	08/11/2013 23:21	John P Hook	1
00259	Mercury	SW-846 7470A	1	132205713006	08/12/2013 14:05	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132201848002	08/09/2013 07:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132205713006	08/09/2013 12:45	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1410014
Reported: 08/12/13 at 02:47 PM

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

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 132201848002	Sample number(s): 7154133-7154151								
Arsenic	N.D.	0.0068	0.0200	mg/l	99		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	100		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	99		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	100		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	95		88-110		
Nickel	N.D.	0.0015	0.0100	mg/l	101		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	94		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	108		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	98		90-110		
Batch number: 132205713006	Sample number(s): 7154133-7154151								
Mercury	N.D.	0.00006 0	0.00020	mg/l	100		80-120		

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 132201848002	Sample number(s): 7154133-7154151 UNSPK: 7154139 BKG: 7154139								
Arsenic	101	102	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	101	101	78-118	1	20	0.0127	0.0127	0 (1)	20
Cadmium	100	101	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	102	102	81-120	0	20	N.D.	N.D.	0 (1)	20
Lead	97	98	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	102	103	86-115	1	20	N.D.	N.D.	0 (1)	20
Selenium	93	95	75-125	2	20	N.D.	N.D.	0 (1)	20
Silver	110	111	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	100	100	90-111	0	20	N.D.	N.D.	0 (1)	20
Batch number: 132205713006	Sample number(s): 7154133-7154151 UNSPK: 7154139 BKG: 7154139								
Mercury	102	104	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

eurofins | Lancaster Laboratories Environmental

Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only Group # 1410014 Sample # 7154133-51

Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information

Facility #/SID: MAYFLOWER PIPELINE INCIDENT

Site Address: MAYFLOWER, AR

ExxonMobil PM: SCOTT BUSHROE

Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: STEVE BARRICK

Consultant Phone #: 919 202 6799

Sampler: J. WALDREN / M. LONG

SCR#:

4 Matrix

Soil ☐ Sediment ☐ Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☒ Oil ☐ Air ☐

5 Analyses Requested

Preservation Code

	H		N		H					
	VOCs 8260B	PAHs 8270 SIM	RCRA Metals + V, Ni, Sr, Tl + HARDNESS	Diss Metals	HEM Oil & Grease					
2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Total # of Containers					
WS-014 (1.5-2.0) 080713	8/7/13	810	X		9	X	X	X	X	X
WS-014 (5.5-6.0) 080713	8/7/13	820	X		9	X	X	X	X	X
WS-012 (1.5-2.0) 080713	8/7/13	830	X		9	X	X	X	X	X
WS-012 (5.0-5.5) 080713	8/7/13	840	X		9	X	X	X	X	X
WS-010 (1.5-2.0) 080713	8/7/13	850	X		9	X	X	X	X	X
WS-010 (3.5-4.0) 080713	8/7/13	900	X		9	X	X	X	X	X
WS-006 (0.5-1.0) 080713	8/7/13	910	X		9	X	X	X	X	X
WS-006 (0.5-1.0) 080713 MS/MSD	8/7/13	910	X		18	X	X	X	X	X
WS-005 (Surface) 080713	8/7/13	1000	X		9	X	X	X	X	X
WS-011 (1.5-2.0) 080713	8/7/13	1020	X		9	X	X	X	X	X
WS-011 (5.0-5.5) 080713	8/7/13	1030	X		9	X	X	X	X	X
WS-003 (Surface) 080713	8/7/13	1040	X		9	X	X	X	X	X

Preservation Codes

H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

6 Remarks

Lab to filter and preserve diss. metals upon receipt.

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

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	Date	Time	Received by	Date	Time
	8/7/13	1600			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS ✓ FedEx ___ Other ___			Received by	8/8/13	0950

9

Temperature Upon Receipt 0.7-3.2 °C

Custody Seals Intact? (Yes) No

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only
Acct. # 14739 Group # 1410014 Sample # 7154133-51
Instructions on reverse side correspond with circled numbers.

2 of 2

SCR#:

① Client Information

Field	Value
Facility #/SID	MAYFLOWER PIPELINE INCIDENT
Site Address	MAYFLOWER, AR.
ExxonMobil PM	SCOTT BUSHROE
Cost Center/AFE	
Consultant/Office	ARCADIS
Consultant PM	STEVE BARRICK
Consultant Phone #	919 202 6799
Sampler	J. WALDRON / M. LONG

④ Matrix: Sediment, Soil, Ground, Surface (X), Potable, NPDES, Water, Air, Oil

⑤ Analyses Requested (Preservation Code): VOC's 8260B (H); PAH's 8270 SIM; RCRA Metals V, Ni, Hardness Ca, Mg (N); Diss Metals; HEM Oil & Grease (H)

② Sample Identification	Collected Date	Collected Time	③ Grab	Composite	Soil	Water	Oil	Total # of Containers	VOC's 8260B	PAH's 8270 SIM	RCRA Metals V, Ni, Hardness Ca, Mg	Diss Metals	HEM Oil & Grease
WS-018(surface)080713	8/7/13	1050	X			X		9	X	X	X	X	X
WS-002(surface)080713	8/7/13	1110	X			X		9	X	X	X	X	X
WS-007(0.5-1.0)080713	8/7/13	1130	X			X		9	X	X	X	X	X
WS-001(0.5-1.0)080713	8/7/13	1140	X			X		9	X	X	X	X	X
WS-TB-118-080713	8/7/13	—	X			X		2	X				
WS-EB-23-080713	8/7/13	1400	X			X		7	X	X	X	X	

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

⑥ Remarks

⑦ Turnaround Time Requested (TAT) (please circle)
Standard, 5 day (circled), 4 day, 72 hour, 48 hour, 24 hour

⑧ Data Package (circle if required)
Type I - Full
Type VI (Raw Data)
NJ Reduced
Other ________

EDD (circle if required)
Locus EIM (default)
Other ________

⑨

Relinquished by	Date	Time	Received by	Date	Time
[signature]	8/7/13	1600			
Relinquished by Commercial Carrier: UPS ✓ FedEx ____ Other ____			[signature]	8/8/13	0950

Temperature Upon Receipt 0.7-3.2 °C

Custody Seals Intact? Yes (circled) No

Rachel L. Kreamer A# 14739 Gr. # 1410014 Samples 7154133-51

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Thursday, August 08, 2013 2:34 PM
To: Rachel L. Kreamer
Cc: Kathy Klinefelter
Subject: RE: Confirming Collection time on a Surface Water received today

The correct time is 1000.

Lyndi Mott

-----Original Message-----
From: Rachel L. Kreamer [mailto:RKreamer@lancasterlabs.com]
Sent: Thursday, August 08, 2013 1:31 PM
To: Mott, Lyndi
Cc: Kathy Klinefelter
Subject: Confirming Collection time on a Surface Water received today

Lyndi,

Two of the vials collected for WS-005(surface080713) have a collection time of 1010. The chain says 1000. Which is the correct time?

Thanks
Rachel

-----Original Message-----
From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Thursday, August 08, 2013 2:28 PM
To: Rachel L. Kreamer
Subject:

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

Scan Date: 08.08.2013 14:27:30 (-0400)
Queries to: 39Scanner@lancasterlabs.com

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Environmental Sample Administration Receipt Documentation Log

1410014

Client/Project: Mayflower

Date of Receipt: 8/8/13

Time of Receipt: 0950

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	DT121	1.0	TB	WI	Y	B	
2	↓	1.8	↓	↓	↓	↓	
3		1.0					
4		3.2					
5		1.4					
6		1.0					

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

Paperwork Discrepancy/Unpacking Problems:

Received 2 vials for WS-005 with collection time 1010

Unpacker Signature/Emp#: 3647 **Date/Time:** 8/8/13 1032

Issued by Dept. 6042 Management

2174.06

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Environmental Sample Administration Receipt Documentation Log

1410014

Client/Project: Mayflower

Date of Receipt: 8/8/13

Time of Receipt: 0950

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	DT121	0.7	TB	WI	Y	B	
2							
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: 3647 **Date/Time:** 8/8/13 1032

Issued by Dept. 6042 Management

2174.06

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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 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 ≥ 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 ≥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.