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

December 17, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 12/05/2013
Group Number: 1438737
SDG: PEM74
PO Number: B0086003.1301
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LL) #
WS-007(0.5-1.0)120313 Grab Surface Water	7302696
WS-009(Surface)120313 Grab Surface Water	7302697
WS-001(0.5-1.0)120313 Grab Surface Water	7302698
WS-021(Surface)120313 Grab Surface Water	7302699
WS-004(0.5-1.0)120313 Grab Surface Water	7302700
WS-020(Surface)120313 Grab Surface Water	7302701
WS-014(1.5-2.0)120413 Grab Surface Water	7302702
WS-014(5.5-6.0)120413 Grab Surface Water	7302703
WS-015(1.5-2.0)120413 Grab Surface Water	7302704
WS-015(3.5-4.0)120413 Grab Surface Water	7302705
WS-012(1.5-2.0)120413 Grab Surface Water	7302706
WS-012(5.0-5.5)120413 Grab Surface Water	7302707
WS-010(1.5-2.0)120413 Grab Surface Water	7302708
WS-010(3.5-4.0)120413 Grab Surface Water	7302709
WS-006(0.5-1.0)120413 Grab Surface Water	7302710
WS-006(0.5-1.0)120413MS Grab Surface Water	7302711
WS-006(0.5-1.0)120413MSD Grab Surface Water	7302712
WS-011(1.5-2.0)120413 Grab Surface Water	7302713
WS-011(5.0-5.5)120413 Grab Surface Water	7302714
WS-EB-117-120413 Grab Water	7302715
DUP-WS-115-120413 Grab Surface Water	7302716

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

ELECTRONIC	ARCADIS	Attn: Stephen Barrick
COPY TO		
ELECTRONIC	ARCADIS	Attn: Lyndi Mott

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

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1438737

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:

SW-846 8270C SIM, GC/MS Semivolatiles

Sample #s: 7302701

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Batch #: 13340WAH026 (Sample number(s): 7302696-7302716 UNSPK: 7302710)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7302701

Sample Description: WS-007(0.5-1.0)120313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302696
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/03/2013 12:20 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

03070 SDG#: PEM74-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	0.061	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 03:39	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-009(Surface)120313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302697
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/03/2013 12:30 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

0309S SDG#: PEM74-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.056	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.056	1
08357	Anthracene	120-12-7	N.D.	0.011	0.056	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.056	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.056	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.056	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.056	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.056	1
08357	Chrysene	218-01-9	N.D.	0.011	0.056	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.056	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.056	1
08357	Fluorene	86-73-7	N.D.	0.011	0.056	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.056	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.056	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.056	1
08357	Naphthalene	91-20-3	0.074	0.033	0.056	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.056	1
08357	Pyrene	129-00-0	N.D.	0.011	0.056	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 04:06	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-001(0.5-1.0)120313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302698
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/03/2013 12:40 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

03010 SDG#: PEM74-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.055	1
08357	Naphthalene	91-20-3	0.069	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	N.D.	0.011	0.055	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 04:33	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-021(Surface)120313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302699
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/03/2013 13:00 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

0321S SDG#: PEM74-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	0.050 J	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 05:01	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-004(0.5-1.0)120313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302700
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/03/2013 12:50 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

03040 SDG#: PEM74-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	0.16	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 05:28	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-020(Surface)120313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302701
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/03/2013 13:20 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

0320S SDG#: PEM74-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	0.062	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 05:55	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-014(1.5-2.0)120413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302702
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 12:10 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

04141 SDG#: PEM74-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.012	0.058	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.058	1
08357	Anthracene	120-12-7	N.D.	0.012	0.058	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.058	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.058	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.058	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.058	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.058	1
08357	Chrysene	218-01-9	N.D.	0.012	0.058	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.058	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.058	1
08357	Fluorene	86-73-7	N.D.	0.012	0.058	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.058	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.058	1
08357	Naphthalene	91-20-3	0.044 J	0.035	0.058	1
08357	Phenanthrene	85-01-8	N.D.	0.035	0.058	1
08357	Pyrene	129-00-0	N.D.	0.012	0.058	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 06:22	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-014(5.5-6.0)120413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302703
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 12:20 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

04145 SDG#: PEM74-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.012	0.058	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.058	1
08357	Anthracene	120-12-7	N.D.	0.012	0.058	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.058	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.058	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.058	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.058	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.058	1
08357	Chrysene	218-01-9	N.D.	0.012	0.058	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.058	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.058	1
08357	Fluorene	86-73-7	N.D.	0.012	0.058	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.058	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.058	1
08357	Naphthalene	91-20-3	0.049 J	0.035	0.058	1
08357	Phenanthrene	85-01-8	N.D.	0.035	0.058	1
08357	Pyrene	129-00-0	N.D.	0.012	0.058	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 06:49	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-015(1.5-2.0)120413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302704
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 12:25 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

04151 SDG#: PEM74-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.013	0.064	1
08357	Acenaphthylene	208-96-8	N.D.	0.013	0.064	1
08357	Anthracene	120-12-7	N.D.	0.013	0.064	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.013	0.064	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.013	0.064	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.013	0.064	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.013	0.064	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.013	0.064	1
08357	Chrysene	218-01-9	N.D.	0.013	0.064	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.013	0.064	1
08357	Fluoranthene	206-44-0	N.D.	0.013	0.064	1
08357	Fluorene	86-73-7	N.D.	0.013	0.064	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.013	0.064	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.013	0.064	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.013	0.064	1
08357	Naphthalene	91-20-3	0.045 J	0.039	0.064	1
08357	Phenanthrene	85-01-8	N.D.	0.039	0.064	1
08357	Pyrene	129-00-0	N.D.	0.013	0.064	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 07:16	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-015(3.5-4.0)120413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302705
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 12:35 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

04153 SDG#: PEM74-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.012	0.058	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.058	1
08357	Anthracene	120-12-7	N.D.	0.012	0.058	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.058	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.058	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.058	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.058	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.058	1
08357	Chrysene	218-01-9	N.D.	0.012	0.058	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.058	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.058	1
08357	Fluorene	86-73-7	N.D.	0.012	0.058	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.058	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.058	1
08357	Naphthalene	91-20-3	0.051 J	0.035	0.058	1
08357	Phenanthrene	85-01-8	N.D.	0.035	0.058	1
08357	Pyrene	129-00-0	N.D.	0.012	0.058	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 07:44	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-012(1.5-2.0)120413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302706
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 12:40 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

04121 SDG#: PEM74-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.056	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.056	1
08357	Anthracene	120-12-7	N.D.	0.011	0.056	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.056	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.056	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.056	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.056	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.056	1
08357	Chrysene	218-01-9	N.D.	0.011	0.056	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.056	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.056	1
08357	Fluorene	86-73-7	N.D.	0.011	0.056	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.056	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.056	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.056	1
08357	Naphthalene	91-20-3	0.057	0.034	0.056	1
08357	Phenanthrene	85-01-8	N.D.	0.034	0.056	1
08357	Pyrene	129-00-0	N.D.	0.011	0.056	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 08:11	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-012(5.0-5.5)120413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302707
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 12:50 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

04123 SDG#: PEM74-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.012	0.058	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.058	1
08357	Anthracene	120-12-7	N.D.	0.012	0.058	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.058	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.058	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.058	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.058	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.058	1
08357	Chrysene	218-01-9	N.D.	0.012	0.058	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.058	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.058	1
08357	Fluorene	86-73-7	N.D.	0.012	0.058	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.058	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.058	1
08357	Naphthalene	91-20-3	0.059	0.035	0.058	1
08357	Phenanthrene	85-01-8	N.D.	0.035	0.058	1
08357	Pyrene	129-00-0	N.D.	0.012	0.058	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 08:38	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-010(1.5-2.0)120413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302708
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 13:00 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

04101 SDG#: PEM74-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.056	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.056	1
08357	Anthracene	120-12-7	N.D.	0.011	0.056	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.056	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.056	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.056	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.056	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.056	1
08357	Chrysene	218-01-9	N.D.	0.011	0.056	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.056	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.056	1
08357	Fluorene	86-73-7	N.D.	0.011	0.056	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.056	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.056	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.056	1
08357	Naphthalene	91-20-3	0.061	0.033	0.056	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.056	1
08357	Pyrene	129-00-0	N.D.	0.011	0.056	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 09:05	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-010(3.5-4.0)120413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302709
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 13:10 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

04103 SDG#: PEM74-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.057	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.057	1
08357	Anthracene	120-12-7	N.D.	0.011	0.057	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.057	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.057	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.057	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.057	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.057	1
08357	Chrysene	218-01-9	N.D.	0.011	0.057	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.057	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.057	1
08357	Fluorene	86-73-7	N.D.	0.011	0.057	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.057	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.057	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.057	1
08357	Naphthalene	91-20-3	0.037 J	0.034	0.057	1
08357	Phenanthrene	85-01-8	N.D.	0.034	0.057	1
08357	Pyrene	129-00-0	N.D.	0.011	0.057	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 09:32	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-006(0.5-1.0)120413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302710
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 13:15 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

04060 SDG#: PEM74-15BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.056	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.056	1
08357	Anthracene	120-12-7	N.D.	0.011	0.056	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.056	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.056	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.056	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.056	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.056	1
08357	Chrysene	218-01-9	N.D.	0.011	0.056	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.056	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.056	1
08357	Fluorene	86-73-7	N.D.	0.011	0.056	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.056	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.056	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.056	1
08357	Naphthalene	91-20-3	0.043 J	0.033	0.056	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.056	1
08357	Pyrene	129-00-0	N.D.	0.011	0.056	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 02:18	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-006(0.5-1.0)120413MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302711
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 13:15 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

04060 SDG#: PEM74-15MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.0	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.051	1
08357	Anthracene	120-12-7	0.87	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.92	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.72	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.92	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.77	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.96	0.010	0.051	1
08357	Chrysene	218-01-9	0.91	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.82	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.0	0.010	0.051	1
08357	Fluorene	86-73-7	1.0	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.85	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.0	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.0	0.010	0.051	1
08357	Naphthalene	91-20-3	1.1	0.030	0.051	1
08357	Phenanthrene	85-01-8	1.0	0.030	0.051	1
08357	Pyrene	129-00-0	0.96	0.010	0.051	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 02:45	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-006(0.5-1.0)120413MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302712
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 13:15 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

04060 SDG#: PEM74-15MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.1	0.011	0.056	1
08357	Acenaphthylene	208-96-8	1.2	0.011	0.056	1
08357	Anthracene	120-12-7	0.94	0.011	0.056	1
08357	Benzo(a)anthracene	56-55-3	1.0	0.011	0.056	1
08357	Benzo(a)pyrene	50-32-8	0.78	0.011	0.056	1
08357	Benzo(b)fluoranthene	205-99-2	1.0	0.011	0.056	1
08357	Benzo(g,h,i)perylene	191-24-2	0.83	0.011	0.056	1
08357	Benzo(k)fluoranthene	207-08-9	1.0	0.011	0.056	1
08357	Chrysene	218-01-9	0.97	0.011	0.056	1
08357	Dibenz(a,h)anthracene	53-70-3	0.90	0.011	0.056	1
08357	Fluoranthene	206-44-0	1.1	0.011	0.056	1
08357	Fluorene	86-73-7	1.1	0.011	0.056	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.93	0.011	0.056	1
08357	1-Methylnaphthalene	90-12-0	1.2	0.011	0.056	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.011	0.056	1
08357	Naphthalene	91-20-3	1.2	0.033	0.056	1
08357	Phenanthrene	85-01-8	1.1	0.033	0.056	1
08357	Pyrene	129-00-0	1.1	0.011	0.056	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 03:12	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-011(1.5-2.0)120413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302713
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 13:40 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

04111 SDG#: PEM74-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.057	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.057	1
08357	Anthracene	120-12-7	N.D.	0.011	0.057	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.057	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.057	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.057	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.057	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.057	1
08357	Chrysene	218-01-9	N.D.	0.011	0.057	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.057	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.057	1
08357	Fluorene	86-73-7	N.D.	0.011	0.057	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.057	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.057	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.057	1
08357	Naphthalene	91-20-3	0.059	0.034	0.057	1
08357	Phenanthrene	85-01-8	N.D.	0.034	0.057	1
08357	Pyrene	129-00-0	N.D.	0.011	0.057	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 09:59	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-011(5.0-5.5)120413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302714
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 13:50 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

04115 SDG#: PEM74-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.054	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.054	1
08357	Anthracene	120-12-7	N.D.	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.054	1
08357	Chrysene	218-01-9	N.D.	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.054	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.054	1
08357	Fluorene	86-73-7	N.D.	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.054	1
08357	Naphthalene	91-20-3	0.059	0.033	0.054	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.054	1
08357	Pyrene	129-00-0	N.D.	0.011	0.054	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 10:26	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: WS-EB-117-120413 Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302715
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 15:00 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

EB117 SDG#: PEM74-18EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.056	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.056	1
08357	Anthracene	120-12-7	N.D.	0.011	0.056	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.056	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.056	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.056	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.056	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.056	1
08357	Chrysene	218-01-9	N.D.	0.011	0.056	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.056	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.056	1
08357	Fluorene	86-73-7	N.D.	0.011	0.056	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.056	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.056	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.056	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.056	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.056	1
08357	Pyrene	129-00-0	N.D.	0.011	0.056	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 10:54	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Sample Description: DUP-WS-115-120413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7302716
LL Group # 1438737
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/04/2013 by RL

Submitted: 12/05/2013 09:15
Reported: 12/17/2013 12:01

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

DP115 SDG#: PEM74-19FD*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.057	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.057	1
08357	Anthracene	120-12-7	N.D.	0.011	0.057	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.057	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.057	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.057	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.057	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.057	1
08357	Chrysene	218-01-9	N.D.	0.011	0.057	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.057	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.057	1
08357	Fluorene	86-73-7	N.D.	0.011	0.057	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.057	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.057	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.057	1
08357	Naphthalene	91-20-3	0.053 J	0.034	0.057	1
08357	Phenanthrene	85-01-8	N.D.	0.034	0.057	1
08357	Pyrene	129-00-0	N.D.	0.011	0.057	1

General Sample Comments

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13340WAH026	12/09/2013 11:21	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13340WAH026	12/08/2013 13:30	Anna E Stager	1

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

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis Group Number: 1438737
Reported: 12/17/13 at 12:01 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: 13340WAH026	Sample number(s): 7302696-7302716								
Acenaphthene	N.D.	0.010	0.050	ug/l	99		77-118		
Acenaphthylene	N.D.	0.010	0.050	ug/l	106		80-123		
Anthracene	N.D.	0.010	0.050	ug/l	102		78-123		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	94		73-127		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	93		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	104		79-136		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	79		64-130		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	104		73-131		
Chrysene	N.D.	0.010	0.050	ug/l	97		76-125		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	77		58-131		
Fluoranthene	N.D.	0.010	0.050	ug/l	101		79-124		
Fluorene	N.D.	0.010	0.050	ug/l	98		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	84		62-130		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	101		80-126		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	100		81-124		
Naphthalene	N.D.	0.030	0.050	ug/l	102		75-120		
Phenanthrene	N.D.	0.030	0.050	ug/l	101		75-120		
Pyrene	N.D.	0.010	0.050	ug/l	96		71-130		

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: 13340WAH026	Sample number(s): 7302696-7302716 UNSPK: 7302710								
Acenaphthene	100	99	47-136	8	30				
Acenaphthylene	108	107	33-146	8	30				
Anthracene	86	85	69-119	8	30				
Benzo(a)anthracene	91	92	37-150	10	30				
Benzo(a)pyrene	71	70	64-123	7	30				
Benzo(b)fluoranthene	91	90	33-152	8	30				
Benzo(g,h,i)perylene	76	75	36-138	7	30				
Benzo(k)fluoranthene	95	90	31-142	5	30				
Chrysene	90	87	34-135	7	30				
Dibenz(a,h)anthracene	81	81	17-134	9	30				
Fluoranthene	100	102	39-147	11	30				
Fluorene	100	100	38-149	10	30				
Indeno(1,2,3-cd)pyrene	84	83	29-143	9	30				

*- 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.

Quality Control Summary

Client Name: ExxonMobil c/o Arcadis Group Number: 1438737
Reported: 12/17/13 at 12:01 PM

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
1-Methylnaphthalene	104	104	49-152	9	30				
2-Methylnaphthalene	101	102	51-146	10	30				
Naphthalene	103	105	58-131	11	30				
Phenanthrene	102	103	48-140	11	30				
Pyrene	94	96	59-125	11	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PAHs in waters by SIM
Batch number: 13340WAH026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7302696	93	73	96
7302697	98	76	96
7302698	98	83	98
7302699	101	82	100
7302700	80	70	89
7302701	89	59*	93
7302702	97	75	97
7302703	96	75	97
7302704	96	83	94
7302705	99	86	97
7302706	96	82	95
7302707	96	81	93
7302708	100	82	98
7302709	91	76	84
7302710	91	72	92
7302711	98	87	101
7302712	100	83	102
7302713	96	73	96
7302714	99	80	100
7302715	95	89	95
7302716	94	62	96
Blank	91	88	92
LCS	94	91	99
MS	98	87	101
MSD	100	83	102
Limits:	44-137	62-141	51-136

*- 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 # 1438737 Sample # 7302696-16
Instructions on reverse side correspond with circled numbers.

1 of 2

SCR#:

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 #: 919-302-6799
Sampler: Ryan Lewis

Preservation Codes

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

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Water	Oil	Sediment	Ground	Potable	NPDES	Surface	Air	Total # of Containers	5 Analyses Requested: Preservation Code / PAHs 8270 SIM
WS-007 (0.5-1.0) 120313	12-3-2013	1220	X			X								2	X
WS-009 (Surface) 120313	12-3-2013	1230	X			X								2	X
WS-001 (0.5-1.0) 120313	12-3-2013	1240	X			X								2	X
WS-021 (Surface) 120313	12-3-2013	1300	X			X								2	X
WS-004 (0.5-1.0) 120313	12-3-2013	1250	X			X								2	X
WS-020 (Surface) 120313	12-3-2013	1320	X			X								2	X
WS-014 (1.5-2.0) 120413	12-4-2013	1210	X			X								2	X
WS-014 (5.5-6.0) 120413	12-4-2013	1220	X			X								2	X
WS-015 (1.5-2.0) 120413	12-4-2013	1225	X			X								2	X
WS-015 (3.5-4.0) 120413	12-4-2013	1235	X			X								2	X
WS-012 (1.5-2.0) 120413	12-4-2013	1240	X			X								2	X
WS-012 (5.0-5.5) 120413	12-4-2013	1250	X			X								2	X

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
	12-4-13	1700			
Relinquished by Commercial Carrier: UPS X FedEx Other			Received by	12/5/13	915

Temperature Upon Receipt 0.8-1.1 °C

Custody Seals Intact? Yes No

ExxonMobil Analysis Request/Chain of Custody

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Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only
Group # 1438737 Sample # 730269G-16
Instructions on reverse side correspond with circled numbers.

2 of 2

SCR#:

1 Client Information

Facility #/SID	Mayflower Pipeline Incident
Site Address	Mayflower, AR
ExxonMobil PM	Scott Bushoe
Cost Center/AFE	
Consultant/Office	ARCADIS
Consultant PM	Steve Barrick
Consultant Phone #	919-302-6799
Sampler	Ryan Lewis

2 Sample Identification | **3 Grab** | **3 Composite** | **4 Matrix** (Soil, Sediment, Water: Ground, Potable, NPDES, Surface; Oil, Air) | **Total # of Containers** | **5 Analyses Requested** — Preservation Code: PAH 8270 SIM

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix	Total # of Containers	PAH 8270 SIM
WS-010 (1.5-2.0) 120413	12-4-2013	1300	X		Water	2	X
WS-010 (3.5-4.0) 120413	12-4-2013	1310	X		Water	2	X
WS-006 (0.5-1.0) 120413	12-4-2013	1315	X		Water	2	X
WS-006 (0.5-1.0) 120413 MS/MSD	12-4-2013	1315	X		Water	4	X
WS-011 (1.5-2.0) 120413	12-4-2013	1340	X		Water	2	X
WS-011 (5.0-5.5) 120413	12-4-2013	1350	X		Water	2	X
WS-EB-117-120413	12-4-2013	1500	X		Water	2	X
DUP-WS-115-120413	12-4-2013	—	X		Water	2	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 | 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
	12-4-13	1700			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS X FedEx ____ Other ____			Received by	Date 12/5/13	Time 915

Temperature Upon Receipt 0.8-1.1 °C

Custody Seals Intact? (Yes) No

9

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Environmental Sample Administration Receipt Documentation Log

1438737

Client/Project: Exxon Mobil

Date of Receipt: 12/5/13

Time of Receipt: 915

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	1.1	TB	WI	Y	B	
2	↓	0.8	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: 238 **Date/Time:** 12/5/13 1712

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.

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