

ANALYTICAL RESULTS

Prepared by:

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2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

August 05, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 07/29/2013

Group Number: 1407556

SDG: PEJ57

PO Number: ARCADIS

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample DescriptionLancaster Labs (LL) #

WS-007(0.5-1.0)072713 Grab Surface Water	7143368
WS-006(0.5-1.0)072713 Grab Surface Water	7143369
DUP-WS-62-072713 Grab Surface Water	7143370
WS-001(0.5-1.0)072713 Grab Surface Water	7143371
WS-014(1.5-2.0)072813 Grab Surface Water	7143372
WS-EB-12-072713 Grab Water	7143373
WS-014(5.5-6.0)072813 Grab Surface Water	7143374
WS-012(1.5-2.0)072813 Grab Surface Water	7143375
WS-012(5.0-5.5)072813 Grab Surface Water	7143376
WS-010(1.5-2.0)072813 Grab Surface Water	7143377
WS-010(3.5-4.0)072813 Grab Surface Water	7143378
WS-005(Surface)072813 Grab Surface Water	7143379
WS-011(1.5-2.0)072813 Grab Surface Water	7143380
WS-011(5.0-5.5)072813 Grab Surface Water	7143381
WS-003(Surface)072813 Grab Surface Water	7143382
WS-002(Surface)072813 Grab Surface Water	7143383
WS-018(Surface)072813 Grab Surface Water	7143384
WS-007(0.5-1.0)072813 Grab Surface Water	7143385
WS-006(0.5-1.0)072813 Grab Surface Water	7143386
WS-006(0.5-1.0)072813 MS Grab Surface Water	7143387
WS-006(0.5-1.0)072813 MSD Grab Surface Water	7143388
WS-006(0.5-1.0)072813 DUP Grab Surface Water	7143389
WS-001(0.5-1.0)072813 Grab Surface Water	7143390
WS-EB-13-072813 Grab Water	7143391
WS-TB-108-072813 Water	7143392

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
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1407556

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 8260B 25mL purge, GC/MS Volatiles**

Batch #: I132131AA (Sample number(s): 7143368-7143369 UNSPK: P145281)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: Acetone

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13212WAF026 (Sample number(s): 7143369-7143388 UNSPK: 7143386)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Anthracene, Chrysene, Benzo(a)pyrene

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7143369, 7143370, 7143371, 7143372, 7143374, 7143375, 7143376, 7143377, 7143378, 7143379, 7143380, 7143381, 7143382, 7143383, 7143384, 7143385, 7143386, 7143387, 7143388, MS, MSD

Batch #: 13214WAA026 (Sample number(s): 7143368, 7143390)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7143368

Sample #s: 7143368, 7143369, 7143370, 7143371, 7143372, 7143374, 7143375, 7143376, 7143377, 7143378, 7143379, 7143380, 7143381, 7143382, 7143383, 7143384

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.

SW-846 6010B, Metals

Batch #: 132101848010 (Sample number(s): 7143376-7143391 UNSPK: 7143386 BKG: 7143386)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Calcium, Magnesium

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

Batch #: 132101848011 (Sample number(s): 7143368-7143375 UNSPK: P143362 BKG: P143362)

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

EPA 1664A, Wet Chemistry

Batch #: 13211807902A (Sample number(s): 7143368-7143372, 7143374-7143376 UNSPK: P143356)

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: HEM (oil & grease)

Batch #: 13212807902A (Sample number(s): 7143377-7143390 UNSPK: 7143386 BKG: 7143386)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: HEM (oil & grease)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: HEM (oil & grease)

Sample Description: WS-007(0.5-1.0)072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143368
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 12:50 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

27705 SDG#: PEJ57-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	5.4	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-007(0.5-1.0)072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143368
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 12:50 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

27705 SDG#: PEJ57-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.2 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	0.014 J	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.019 J	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.016 J	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.058	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.038 J	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.019 J	0.010	0.052	1
08357	Chrysene	218-01-9	0.046 J	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.090	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.018 J	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.032 J	0.031	0.052	1
08357	Pyrene	129-00-0	0.064	0.010	0.052	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.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	48.6	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0271	0.0068	0.0200	1
07046	Barium	7440-39-3	0.389	0.00033	0.0050	1

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

Sample Description: WS-007(0.5-1.0)072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143368
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 12:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

27705 SDG#: PEJ57-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	9.27	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0353	0.0016	0.0150	1
07055	Lead	7439-92-1	0.122	0.0047	0.0150	1
01757	Magnesium	7439-95-4	6.18	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0467	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	0.0619	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00012 J	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I132131AA	08/01/2013 11:27	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I132131AA	08/01/2013 11:27	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13214WAA026	08/03/2013 07:34	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13214WAA026	08/02/2013 13:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132136256001	08/01/2013 07:15	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132101848011	08/01/2013 00:49	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132101848011	08/01/2013 00:49	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132101848011	08/01/2013 00:49	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	132101848011	08/01/2013 00:49	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132101848011	08/01/2013 00:49	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132101848011	08/01/2013 00:49	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	132101848011	08/01/2013 00:49	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132101848011	08/01/2013 00:49	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132101848011	08/01/2013 00:49	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132101848011	08/01/2013 00:49	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132101848011	08/01/2013 00:49	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132105713003	07/31/2013 07:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848011	07/30/2013 08:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713003	07/30/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143368
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 12:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

27705 SDG#: PEJ57-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13211807902A	07/30/2013 16:57	Michelle L Lalli	1

Sample Description: WS-006(0.5-1.0)072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143369
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 13:10 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

27605 SDG#: PEJ57-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-006(0.5-1.0)072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143369
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 13:10 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

27605 SDG#: PEJ57-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	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.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	45.8	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0186 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.212	0.00033	0.0050	1

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

Sample Description: WS-006(0.5-1.0)072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143369
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 13:10 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

27605 SDG#: PEJ57-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	7.24	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0357	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0373	0.0047	0.0150	1
01757	Magnesium	7439-95-4	6.73	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0216	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	0.0622	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
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I132131AA	08/01/2013 11:48	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I132131AA	08/01/2013 11:48	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 06:26	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132136256001	08/01/2013 07:15	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132101848011	08/01/2013 00:59	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132101848011	08/01/2013 00:59	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132101848011	08/01/2013 00:59	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	132101848011	08/01/2013 00:59	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132101848011	08/01/2013 00:59	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132101848011	08/01/2013 00:59	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	132101848011	08/01/2013 00:59	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132101848011	08/01/2013 00:59	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132101848011	08/01/2013 00:59	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132101848011	08/01/2013 00:59	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132101848011	08/01/2013 00:59	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132105713003	07/31/2013 07:47	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848011	07/30/2013 08:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713003	07/30/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143369
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 13:10 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

27605 SDG#: PEJ57-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13211807902A	07/30/2013 16:57	Michelle L Lalli	1

Sample Description: DUP-WS-62-072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143370
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

27FD- SDG#: PEJ57-03FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: DUP-WS-62-072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143370
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

27FD- SDG#: PEJ57-03FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	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.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	40.3	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0141 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.188	0.00033	0.0050	1

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

Sample Description: DUP-WS-62-072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143370
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

27FD- SDG#: PEJ57-03FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	7.62	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0201	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0317	0.0047	0.0150	1
01757	Magnesium	7439-95-4	5.16	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0141	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	0.0452	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
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	2.5 J	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 15:47	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 15:47	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 06:54	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132136256001	08/01/2013 07:15	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132101848011	08/01/2013 01:03	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132101848011	08/01/2013 01:03	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132101848011	08/01/2013 01:03	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	132101848011	08/01/2013 01:03	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132101848011	08/01/2013 01:03	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132101848011	08/01/2013 01:03	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	132101848011	08/01/2013 01:03	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132101848011	08/01/2013 01:03	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132101848011	08/01/2013 01:03	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132101848011	08/01/2013 01:03	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132101848011	08/01/2013 01:03	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132105713003	07/31/2013 07:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848011	07/30/2013 08:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713003	07/30/2013 15:15	Nelli S Markaryan	1

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

Sample Description: DUP-WS-62-072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143370
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

27FD- SDG#: PEJ57-03FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13211807902A	07/30/2013 16:57	Michelle L Lalli	1

Sample Description: WS-001(0.5-1.0)072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143371
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 13:20 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

27105 SDG#: PEJ57-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-001(0.5-1.0)072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143371
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 13:20 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

27105 SDG#: PEJ57-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	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.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	23.1	0.033	0.20	1
	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	0.0288	0.00033	0.0050	1

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

Sample Description: WS-001(0.5-1.0)072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143371
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 13:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

27105 SDG#: PEJ57-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.20	0.0334	0.200	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
01757	Magnesium	7439-95-4	2.47	0.0167	0.100	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
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 16:08	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 16:08	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 07:21	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132136256001	08/01/2013 07:15	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132101848011	08/01/2013 01:06	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132101848011	08/01/2013 01:06	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132101848011	08/01/2013 01:06	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	132101848011	08/01/2013 01:06	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132101848011	08/01/2013 01:06	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132101848011	08/01/2013 01:06	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	132101848011	08/01/2013 01:06	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132101848011	08/01/2013 01:06	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132101848011	08/01/2013 01:06	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132101848011	08/01/2013 01:06	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132101848011	08/01/2013 01:06	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132105713003	07/31/2013 07:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848011	07/30/2013 08:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713003	07/30/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)072713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143371
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 13:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

27105 SDG#: PEJ57-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13211807902A	07/30/2013 16:57	Michelle L Lalli	1

Sample Description: WS-014(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143372
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 08:30 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

14128 SDG#: PEJ57-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-014(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143372
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 08:30 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

14128 SDG#: PEJ57-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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
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.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	24.8	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0262	0.00033	0.0050	1

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

Sample Description: WS-014(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143372
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 08:30 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

14128 SDG#: PEJ57-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.63	0.0334	0.200	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
01757	Magnesium	7439-95-4	2.61	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0015 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
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 16:30	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 16:30	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 07:48	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132136256001	08/01/2013 07:15	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132101848011	08/01/2013 01:10	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132101848011	08/01/2013 01:10	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132101848011	08/01/2013 01:10	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	132101848011	08/01/2013 01:10	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132101848011	08/01/2013 01:10	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132101848011	08/01/2013 01:10	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	132101848011	08/01/2013 01:10	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132101848011	08/01/2013 01:10	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132101848011	08/01/2013 01:10	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132101848011	08/01/2013 01:10	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132101848011	08/01/2013 01:10	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132105713003	07/31/2013 07:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848011	07/30/2013 08:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713003	07/30/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-014(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143372
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 08:30 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

14128 SDG#: PEJ57-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13211807902A	07/30/2013 16:57	Michelle L Lalli	1

Sample Description: WS-EB-12-072713 Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143373
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 14:20 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

27E12 SDG#: PEJ57-06EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-EB-12-072713 Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143373
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 14:20 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

27E12 SDG#: PEJ57-06EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	0.068	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
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	1.2	0.033	0.20	1
	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	0.0060	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	0.369	0.0334	0.200	1

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

Sample Description: WS-EB-12-072713 Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143373
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/27/2013 14:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

27E12 SDG#: PEJ57-06EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	0.0680 J	0.0167	0.100	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

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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 13:16	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 13:16	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 08:15	Brian K Graham	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132136256001	08/01/2013 07:15	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132101848011	08/01/2013 01:13	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132101848011	08/01/2013 01:13	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132101848011	08/01/2013 01:13	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	132101848011	08/01/2013 01:13	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132101848011	08/01/2013 01:13	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132101848011	08/01/2013 01:13	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	132101848011	08/01/2013 01:13	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132101848011	08/01/2013 01:13	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132101848011	08/01/2013 01:13	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132101848011	08/01/2013 01:13	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132101848011	08/01/2013 01:13	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132105713003	07/31/2013 07:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848011	07/30/2013 08:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713003	07/30/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143374
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 08:40 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28145 SDG#: PEJ57-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-014(5.5-6.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143374
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 08:40 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28145 SDG#: PEJ57-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	N.D.	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
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.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	25.1	0.033	0.20	1
	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	0.0294	0.00033	0.0050	1

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

Sample Description: WS-014(5.5-6.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143374
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 08:40 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

28145 SDG#: PEJ57-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.69	0.0334	0.200	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
01757	Magnesium	7439-95-4	2.65	0.0167	0.100	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
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 16:51	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 16:51	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 08:42	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132136256001	08/01/2013 07:15	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132101848011	08/01/2013 01:17	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132101848011	08/01/2013 01:17	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132101848011	08/01/2013 01:17	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	132101848011	08/01/2013 01:17	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132101848011	08/01/2013 01:17	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132101848011	08/01/2013 01:17	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	132101848011	08/01/2013 01:17	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132101848011	08/01/2013 01:17	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132101848011	08/01/2013 01:17	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132101848011	08/01/2013 01:17	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132101848011	08/01/2013 01:17	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132105713003	07/31/2013 08:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848011	07/30/2013 08:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713003	07/30/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-014(5.5-6.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143374
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 08:40 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28145 SDG#: PEJ57-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13211807902A	07/30/2013 16:57	Michelle L Lalli	1

Sample Description: WS-012(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143375
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 08:50 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

12128 SDG#: PEJ57-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-012(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143375
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 08:50 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

12128 SDG#: PEJ57-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	N.D.	0.032	0.054	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.054	1
08357	Pyrene	129-00-0	N.D.	0.011	0.054	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.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	24.9	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0252	0.00033	0.0050	1

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

Sample Description: WS-012(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143375
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 08:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

12128 SDG#: PEJ57-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.65	0.0334	0.200	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
01757	Magnesium	7439-95-4	2.62	0.0167	0.100	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
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 17:13	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 17:13	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 09:09	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132136256001	08/01/2013 07:15	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132101848011	08/01/2013 01:21	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	132101848011	08/01/2013 01:21	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	132101848011	08/01/2013 01:21	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	132101848011	08/01/2013 01:21	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	132101848011	08/01/2013 01:21	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	132101848011	08/01/2013 01:21	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	132101848011	08/01/2013 01:21	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	132101848011	08/01/2013 01:21	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	132101848011	08/01/2013 01:21	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	132101848011	08/01/2013 01:21	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	132101848011	08/01/2013 01:21	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	132105713003	07/31/2013 08:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848011	07/30/2013 08:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713003	07/30/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-012(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143375
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 08:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

12128 SDG#: PEJ57-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13211807902A	07/30/2013 16:57	Michelle L Lalli	1

Sample Description: WS-012(5.0-5.5)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143376
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:00 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

12528 SDG#: PEJ57-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-012(5.0-5.5)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143376
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:00 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

12528 SDG#: PEJ57-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	N.D.	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
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.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	24.5	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0357	0.00033	0.0050	1

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

Sample Description: WS-012(5.0-5.5)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143376
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:00 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

12528 SDG#: PEJ57-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.56	0.0334	0.200	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
01757	Magnesium	7439-95-4	2.57	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0020 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
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 17:34	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 17:34	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 09:36	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 05:59	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 05:59	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 05:59	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 05:59	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 05:59	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 05:59	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 05:59	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 05:59	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 05:59	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 05:59	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 05:59	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-012(5.0-5.5)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143376
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:00 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

12528 SDG#: PEJ57-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13211807902A	07/30/2013 16:57	Michelle L Lalli	1

Sample Description: WS-010(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143377
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:20 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

10128 SDG#: PEJ57-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-010(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143377
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

10128 SDG#: PEJ57-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	N.D.	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
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.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	24.4	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0313	0.00033	0.0050	1

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

Sample Description: WS-010(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143377
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

10128 SDG#: PEJ57-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.51	0.0334	0.200	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
01757	Magnesium	7439-95-4	2.59	0.0167	0.100	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
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 17:56	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 17:56	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 10:03	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 06:02	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 06:02	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 06:02	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 06:02	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 06:02	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 06:02	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 06:02	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 06:02	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 06:02	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 06:02	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 06:02	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-010(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143377
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:20 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

10128 SDG#: PEJ57-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13212807902A	07/31/2013 11:20	Yolunder Y Bunch	1

Sample Description: WS-010(3.5-4.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143378
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:30 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

10328 SDG#: PEJ57-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-010(3.5-4.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143378
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:30 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

10328 SDG#: PEJ57-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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.	0.034	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
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.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	24.6	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0313	0.00033	0.0050	1

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

Sample Description: WS-010(3.5-4.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143378
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:30 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

10328 SDG#: PEJ57-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.54	0.0334	0.200	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
01757	Magnesium	7439-95-4	2.61	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0019 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
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 18:17	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 18:17	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 10:31	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 06:13	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 06:13	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 06:13	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 06:13	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 06:13	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 06:13	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 06:13	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 06:13	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 06:13	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 06:13	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 06:13	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-010(3.5-4.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143378
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:30 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

10328 SDG#: PEJ57-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13212807902A	07/31/2013 11:20	Yolunder Y Bunch	1

Sample Description: WS-005(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143379
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:50 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

2805S SDG#: PEJ57-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-005(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143379
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

2805S SDG#: PEJ57-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	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.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	26.4	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0397	0.00033	0.0050	1

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

Sample Description: WS-005(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143379
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

2805S SDG#: PEJ57-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.14	0.0334	0.200	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
01757	Magnesium	7439-95-4	2.69	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0023 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
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 18:39	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 18:39	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 10:58	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 06:17	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 06:17	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 06:17	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 06:17	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 06:17	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 06:17	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 06:17	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 06:17	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 06:17	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 06:17	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 06:17	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143379
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 09:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

2805S SDG#: PEJ57-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13212807902A	07/31/2013 11:20	Yolunder Y Bunch	1

Sample Description: WS-011(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143380
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

28111 SDG#: PEJ57-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-011(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143380
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:20 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28111 SDG#: PEJ57-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	N.D.	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
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.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	25.0	0.033	0.20	1
	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	0.0284	0.00033	0.0050	1

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

Sample Description: WS-011(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143380
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

28111 SDG#: PEJ57-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.64	0.0334	0.200	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
01757	Magnesium	7439-95-4	2.65	0.0167	0.100	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
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 19:00	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 19:00	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 11:25	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 06:20	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 06:20	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 06:20	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 06:20	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 06:20	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 06:20	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 06:20	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 06:20	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 06:20	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 06:20	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 06:20	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-011(1.5-2.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143380
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

28111 SDG#: PEJ57-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13212807902A	07/31/2013 11:20	Yolunder Y Bunch	1

Sample Description: WS-011(5.0-5.5)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143381
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:30 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28115 SDG#: PEJ57-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-011(5.0-5.5)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143381
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:30 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28115 SDG#: PEJ57-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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
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.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	25.4	0.033	0.20	1
	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	0.0327	0.00033	0.0050	1

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

Sample Description: WS-011(5.0-5.5)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143381
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:30 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

28115 SDG#: PEJ57-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.71	0.0334	0.200	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
01757	Magnesium	7439-95-4	2.71	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0023 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
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 19:22	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 19:22	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 11:52	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 06:24	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 06:24	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 06:24	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 06:24	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 06:24	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 06:24	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 06:24	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 06:24	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 06:24	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 06:24	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 06:24	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-011(5.0-5.5)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143381
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:30 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

28115 SDG#: PEJ57-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13212807902A	07/31/2013 11:20	Yolunder Y Bunch	1

Sample Description: WS-003(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143382
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:40 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

2803S SDG#: PEJ57-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 J	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-003(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143382
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:40 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

2803S SDG#: PEJ57-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	N.D.	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.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	26.2	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0368	0.00033	0.0050	1

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

Sample Description: WS-003(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143382
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:40 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

2803S SDG#: PEJ57-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.87	0.0334	0.200	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
01757	Magnesium	7439-95-4	2.79	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0019 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
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 19:44	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 19:44	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 12:19	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 06:28	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 06:28	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 06:28	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 06:28	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 06:28	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 06:28	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 06:28	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 06:28	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 06:28	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 06:28	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 06:28	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-003 (Surface) 072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143382
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:40 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

2803S SDG#: PEJ57-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13212807902A	07/31/2013 11:20	Yolunder Y Bunch	1

Sample Description: WS-002(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143383
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

2802S SDG#: PEJ57-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-002(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143383
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

2802S SDG#: PEJ57-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.012	0.059	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.059	1
08357	Anthracene	120-12-7	N.D.	0.012	0.059	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.059	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.059	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.059	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.059	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.059	1
08357	Chrysene	218-01-9	N.D.	0.012	0.059	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.059	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.059	1
08357	Fluorene	86-73-7	N.D.	0.012	0.059	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.059	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.059	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.059	1
08357	Naphthalene	91-20-3	N.D.	0.036	0.059	1
08357	Phenanthrene	85-01-8	N.D.	0.036	0.059	1
08357	Pyrene	129-00-0	N.D.	0.012	0.059	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.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	25.1	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0255	0.00033	0.0050	1

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

Sample Description: WS-002(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143383
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

2802S SDG#: PEJ57-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.73	0.0334	0.200	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
01757	Magnesium	7439-95-4	2.62	0.0167	0.100	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	N.D.	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 20:05	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 20:05	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 12:46	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 06:31	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 06:31	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 06:31	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 06:31	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 06:31	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 06:31	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 06:31	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 06:31	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 06:31	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 06:31	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 06:31	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143383
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

2802S SDG#: PEJ57-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13212807902A	07/31/2013 11:20	Yolunder Y Bunch	1

Sample Description: WS-018(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143384
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

2818S SDG#: PEJ57-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-018(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143384
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

2818S SDG#: PEJ57-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	N.D.	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
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.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	25.5	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0466	0.00033	0.0050	1

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

Sample Description: WS-018(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143384
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

2818S SDG#: PEJ57-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.73	0.0334	0.200	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
01757	Magnesium	7439-95-4	2.71	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0025 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
SW-846 7470A						
	mg/l		mg/l	mg/l		
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C132121AA	07/31/2013 12:09	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132121AA	07/31/2013 12:09	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 13:13	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 06:35	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 06:35	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 06:35	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 06:35	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 06:35	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 06:35	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 06:35	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 06:35	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 06:35	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 06:35	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 06:35	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-018(Surface)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143384
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 10:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

2818S SDG#: PEJ57-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13212807902A	07/31/2013 11:20	Yolunder Y Bunch	1

Sample Description: WS-007(0.5-1.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143385
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:30 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28705 SDG#: PEJ57-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	4.4 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-007(0.5-1.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143385
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:30 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28705 SDG#: PEJ57-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	0.016 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.023 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.017 J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.062	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.021 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.018 J	0.010	0.051	1
08357	Chrysene	218-01-9	0.033 J	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	0.11	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	0.024 J	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	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	0.033 J	0.030	0.051	1
08357	Pyrene	129-00-0	0.077	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	33.6	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0219	0.0068	0.0200	1
07046	Barium	7440-39-3	0.200	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.46	0.0334	0.200	1

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

Sample Description: WS-007(0.5-1.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143385
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:30 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

28705 SDG#: PEJ57-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0210	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0730	0.0047	0.0150	1
01757	Magnesium	7439-95-4	4.23	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0244	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	0.0349	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000061 J	0.000060	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C132121AA	07/31/2013 12:31	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132121AA	07/31/2013 12:31	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 13:41	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 06:38	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 06:38	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 06:38	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 06:38	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 06:38	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 06:38	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 06:38	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 06:38	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 06:38	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 06:38	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 06:38	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13212807902A	07/31/2013 11:20	Yolunder Y Bunch	1

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

Sample Description: WS-006(0.5-1.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143386
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

28605 SDG#: PEJ57-19BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-006(0.5-1.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143386
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:50 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28605 SDG#: PEJ57-19BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	24.5	0.033	0.20	1
	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	0.0325	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.53	0.0334	0.200	1

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

Sample Description: WS-006(0.5-1.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143386
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

28605 SDG#: PEJ57-19BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.60	0.0167	0.100	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	N.D.	0.000060	0.00020	1
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 14:21	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 14:21	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 04:38	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 05:37	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 05:37	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 05:37	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 05:37	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 05:37	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 05:37	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 05:37	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 05:37	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 05:37	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 05:37	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 05:37	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13212807902A	07/31/2013 11:20	Yolunder Y Bunch	1

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

Sample Description: WS-006(0.5-1.0)072813 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143387
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:50 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28605 SDG#: PEJ57-19MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	35	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.0	0.1	0.5	1
02898	Benzene	71-43-2	4.9	0.1	0.5	1
02898	Bromobenzene	108-86-1	4.8	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.1	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	4.5	0.1	0.5	1
02898	Bromoform	75-25-2	4.5	0.1	0.5	1
02898	Bromomethane	74-83-9	5.0	0.1	0.5	1
02898	2-Butanone	78-93-3	31	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	4.8	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	4.9	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	4.9	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	4.9	0.1	0.5	1
02898	Chlorobenzene	108-90-7	4.9	0.1	0.5	1
02898	Chloroethane	75-00-3	5.0	0.1	0.5	1
02898	Chloroform	67-66-3	4.9	0.1	0.5	1
02898	Chloromethane	74-87-3	4.6	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	4.8	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	4.7	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.1	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	4.5	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.6	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.6	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	4.8	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	4.9	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	4.8	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.2	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	4.9	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.6	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.1	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	4.9	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.1	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.3	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	4.8	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.5	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	4.9	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.3	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.7	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.5	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.1	0.1	0.5	1
02898	Ethylbenzene	100-41-4	4.9	0.1	0.5	1
02898	Freon 113	76-13-1	5.0	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.6	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	4.9	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	4.9	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.5	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	22	1.0	5.0	1
02898	Methylene Chloride	75-09-2	4.7	0.2	0.5	1

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

Sample Description: WS-006(0.5-1.0)072813 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143387
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:50 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28605 SDG#: PEJ57-19MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	4.9	0.1	0.5	1
02898	Styrene	100-42-5	4.7	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	4.6	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.6	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.3	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	20	2.0	5.0	1
02898	Toluene	108-88-3	4.9	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.4	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.6	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.0	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	4.7	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.1	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.4	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.8	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	4.8	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	4.9	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.2	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	15	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.94	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.97	0.010	0.051	1
08357	Anthracene	120-12-7	0.70	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.82	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.39	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.71	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.56	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.68	0.010	0.051	1
08357	Chrysene	218-01-9	0.67	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.60	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.97	0.010	0.051	1
08357	Fluorene	86-73-7	0.99	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.59	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.99	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.92	0.010	0.051	1
08357	Naphthalene	91-20-3	0.98	0.030	0.051	1
08357	Phenanthrene	85-01-8	0.91	0.030	0.051	1
08357	Pyrene	129-00-0	0.80	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	50.4	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.164	0.0068	0.0200	1
07046	Barium	7440-39-3	2.20	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0503	0.00076	0.0050	1
01750	Calcium	7440-70-2	10.9	0.0334	0.200	1

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

Sample Description: WS-006(0.5-1.0)072813 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143387
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

28605 SDG#: PEJ57-19MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.219	0.0016	0.0150	1
07055	Lead	7439-92-1	0.160	0.0047	0.0150	1
01757	Magnesium	7439-95-4	5.60	0.0167	0.100	1
07061	Nickel	7440-02-0	0.527	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.138	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0578	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.556	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0011	0.000060	0.00020	1
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	23.8	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 14:42	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 14:42	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 05:05	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 05:48	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 05:48	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 05:48	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 05:48	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 05:48	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 05:48	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 05:48	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 05:48	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 05:48	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 05:48	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 05:48	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13212807902A	07/31/2013 11:20	Yolunder Y Bunch	1

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

Sample Description: WS-006(0.5-1.0)072813 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143388
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:50 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28605 SDG#: PEJ57-19MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	37	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.0	0.1	0.5	1
02898	Benzene	71-43-2	5.2	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.2	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.3	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	4.9	0.1	0.5	1
02898	Bromoform	75-25-2	5.0	0.1	0.5	1
02898	Bromomethane	74-83-9	5.1	0.1	0.5	1
02898	2-Butanone	78-93-3	34	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.2	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.3	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.2	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.4	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.3	0.1	0.5	1
02898	Chloroethane	75-00-3	5.0	0.1	0.5	1
02898	Chloroform	67-66-3	5.3	0.1	0.5	1
02898	Chloromethane	74-87-3	4.6	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.3	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.1	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.7	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	4.9	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.0	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.9	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.3	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.3	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.3	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.3	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.3	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.9	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.5	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.3	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.5	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.5	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.2	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.9	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.3	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.7	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.1	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.8	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.0	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.3	0.1	0.5	1
02898	Freon 113	76-13-1	5.5	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.1	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.4	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.3	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.8	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	24	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.1	0.2	0.5	1

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

Sample Description: WS-006(0.5-1.0)072813 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143388
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:50 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28605 SDG#: PEJ57-19MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.3	0.1	0.5	1
02898	Styrene	100-42-5	5.2	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.1	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.0	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.6	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	21	2.0	5.0	1
02898	Toluene	108-88-3	5.2	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.9	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.0	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.4	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.0	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.5	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.4	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.1	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.2	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.3	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.2	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	16	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.88	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.92	0.010	0.051	1
08357	Anthracene	120-12-7	0.63	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.77	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.34	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.64	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.51	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.62	0.010	0.051	1
08357	Chrysene	218-01-9	0.61	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.54	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.91	0.010	0.051	1
08357	Fluorene	86-73-7	0.94	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.54	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.93	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.87	0.010	0.051	1
08357	Naphthalene	91-20-3	0.92	0.030	0.051	1
08357	Phenanthrene	85-01-8	0.86	0.030	0.051	1
08357	Pyrene	129-00-0	0.88	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	43.0	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.157	0.0068	0.0200	1
07046	Barium	7440-39-3	2.12	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0506	0.00076	0.0050	1
01750	Calcium	7440-70-2	9.58	0.0334	0.200	1

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

Sample Description: WS-006(0.5-1.0)072813 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143388
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

28605 SDG#: PEJ57-19MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.210	0.0016	0.0150	1
07055	Lead	7439-92-1	0.150	0.0047	0.0150	1
01757	Magnesium	7439-95-4	4.63	0.0167	0.100	1
07061	Nickel	7440-02-0	0.520	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.137	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0574	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.534	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0011	0.000060	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	7.1	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 15:04	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 15:04	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAF026	08/01/2013 05:32	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13212WAF026	07/31/2013 20:30	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 05:51	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 05:51	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 05:51	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 05:51	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 05:51	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 05:51	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 05:51	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 05:51	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 05:51	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 05:51	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 05:51	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13212807902A	07/31/2013 11:20	Yolunder Y Bunch	1

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

Sample Description: WS-006(0.5-1.0)072813 DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143389
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 11:50 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28605 SDG#: PEJ57-19DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	23.5	0.033	0.20	1
	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	0.0309	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.29	0.0334	0.200	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
01757	Magnesium	7439-95-4	2.50	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0024 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
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 05:44	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 05:44	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 05:44	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 05:44	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 05:44	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 05:44	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 05:44	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 05:44	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 05:44	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 05:44	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 05:44	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13212807902A	07/31/2013 11:20	Yolunder Y Bunch	1

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

Sample Description: WS-001(0.5-1.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143390
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 12:10 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28105 SDG#: PEJ57-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-001(0.5-1.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143390
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 12:10 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28105 SDG#: PEJ57-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	24.0	0.033	0.20	1
	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	0.0337	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.40	0.0334	0.200	1

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

Sample Description: WS-001(0.5-1.0)072813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143390
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 12:10 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

28105 SDG#: PEJ57-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.55	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0025 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	2.1 J	1.4	5.0	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 15:25	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 15:25	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13214WAA026	08/03/2013 08:28	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13214WAA026	08/02/2013 13:00	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256010	07/31/2013 08:10	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 06:42	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 06:42	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 06:42	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 06:42	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 06:42	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 06:42	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 06:42	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 06:42	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 06:42	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 06:42	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 06:42	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13212807902A	07/31/2013 11:20	Yolunder Y Bunch	1

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

Sample Description: WS-EB-13-072813 Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143391
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 14:00 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28E13 SDG#: PEJ57-21EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-EB-13-072813 Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143391
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 14:00 by JW

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

28E13 SDG#: PEJ57-21EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
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	0.12	0.032	0.054	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.054	1
08357	Pyrene	129-00-0	N.D.	0.011	0.054	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	1.3	0.033	0.20	1
	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	0.0064	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	0.394	0.0334	0.200	1

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

Sample Description: WS-EB-13-072813 Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143391
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013 14:00 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 07/29/2013 15:25

PO Box 4416

Reported: 08/05/2013 13:55

Houston TX 77210-4416

28E13 SDG#: PEJ57-21EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	0.0769 J	0.0167	0.100	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

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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 12:33	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 12:33	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13212WAE026	08/01/2013 03:33	Brian K Graham	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13212WAE026	07/31/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132126256001	07/31/2013 11:27	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132101848010	07/31/2013 06:46	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132101848010	07/31/2013 06:46	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132101848010	07/31/2013 06:46	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132101848010	07/31/2013 06:46	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132101848010	07/31/2013 06:46	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132101848010	07/31/2013 06:46	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132101848010	07/31/2013 06:46	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132101848010	07/31/2013 06:46	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132101848010	07/31/2013 06:46	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132101848010	07/31/2013 06:46	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132101848010	07/31/2013 06:46	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132105713004	07/31/2013 08:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132101848010	07/30/2013 08:22	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132105713004	07/30/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-TB-108-072813 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143392
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

TB108 SDG#: PEJ57-22TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-TB-108-072813 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7143392
LL Group # 1407556
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/28/2013

ExxonMobil

Submitted: 07/29/2013 15:25

Mobil Pipeline Company

Reported: 08/05/2013 13:55

PO Box 4416

Houston TX 77210-4416

TB108 SDG#: PEJ57-22TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G132111AA	07/30/2013 12:54	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132111AA	07/30/2013 12:54	Kerri E Legerlotz	1

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

Quality Control SummaryClient Name: ExxonMobil
Reported: 08/05/13 at 01:55 PM

Group Number: 1407556

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

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: C132121AA	Sample number(s): 7143384-7143385								
Acetone	N.D.	3.0	5.0	ug/l	110		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	84		61-130		
Benzene	N.D.	0.1	0.5	ug/l	100		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	107		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	103		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	91		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	110		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	117		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	97		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	95		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	105		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	104		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	107		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	96		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	98		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	101		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	114		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	97		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	101		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	105		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	102		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	101		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	102		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	105		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	98		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	112		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	97		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	101		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	102		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	113		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	100		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	97		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	93		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	102		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	97		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	93		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	85		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	101		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	97		61-125		

*- 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

Group Number: 1407556

Reported: 08/05/13 at 01:55 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Isopropylbenzene	N.D.	0.1	0.5	ug/l	97		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	94		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	89		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	88		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	100		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
Styrene	N.D.	0.1	0.5	ug/l	99		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	101		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	96		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	102		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	116		65-131		
Toluene	N.D.	0.1	0.5	ug/l	100		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	92		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	93		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	104		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	101		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	120		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	98		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	96		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	103		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	98		80-120		

Batch number: G132111AA

Sample number(s): 7143370-7143383, 7143386-7143388, 7143390-7143392

Acetone	N.D.	3.0	5.0	ug/l	92		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	94		61-130		
Benzene	N.D.	0.1	0.5	ug/l	101		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	106		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	98		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	102		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	101		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	95		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	99		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	96		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	102		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	90		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	101		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	100		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	100		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	99		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	102		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	100		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	83		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	102		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	98		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	101		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	103		80-120		

*- 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

Group Number: 1407556

Reported: 08/05/13 at 01:55 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	103		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	104		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	98		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	100		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	106		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	102		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	88		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	99		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	99		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	98		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	98		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	95		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	101		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Styrene	N.D.	0.1	0.5	ug/l	101		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	99		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	97		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	106		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	95		65-131		
Toluene	N.D.	0.1	0.5	ug/l	101		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	95		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	99		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	101		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	99		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	106		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	98		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	102		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	98		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	101		80-120		

Batch number: I132131AA

Sample number(s): 7143368-7143369

Acetone	N.D.	3.0	5.0	ug/l	89		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	77		61-130		
Benzene	N.D.	0.1	0.5	ug/l	99		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	90		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	97		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	93		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	88		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	90		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	97		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	95		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	97		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	95		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	93		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	97		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	90		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	96		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	97		80-120		

*- 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

Group Number: 1407556

Reported: 08/05/13 at 01:55 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	97		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	92		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	97		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	95		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	97		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	96		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	97		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	76		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	93		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	92		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	97		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	96		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	100		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	95		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	102		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	95		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	82		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	99		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	92		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	87		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	76		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	95		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	94		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	88		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	95		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	94		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	86		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	91		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	94		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	96		80-120		
Styrene	N.D.	0.1	0.5	ug/l	94		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	96		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	100		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	91		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	102		65-131		
Toluene	N.D.	0.1	0.5	ug/l	97		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	89		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	89		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	91		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	98		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	101		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	92		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	100		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	95		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	95		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	93		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	95		80-120		

Batch number: 13212WAE026

Sample number(s): 7143391

Acenaphthene	N.D.	0.010	0.050	ug/l	98	99	65-124	1	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	103	105	72-113	2	30
Anthracene	N.D.	0.010	0.050	ug/l	108	108	70-117	1	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	98	95	75-115	3	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	94	98	72-120	4	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	92	94	74-130	2	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	92	95	63-121	3	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

Group Number: 1407556

Reported: 08/05/13 at 01:55 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Benzo(k) fluoranthene	N.D.	0.010	0.050	ug/l	100	106	74-118	6	30
Chrysene	N.D.	0.010	0.050	ug/l	94	98	75-112	4	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	86	91	66-122	6	30
Fluoranthene	N.D.	0.010	0.050	ug/l	109	112	73-116	2	30
Fluorene	N.D.	0.010	0.050	ug/l	96	96	74-115	0	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	90	92	66-122	2	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	106	108	72-114	2	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	103	105	74-119	2	30
Naphthalene	N.D.	0.030	0.050	ug/l	95	97	67-118	2	30
Phenanthrene	N.D.	0.030	0.050	ug/l	98	101	72-109	3	30
Pyrene	N.D.	0.010	0.050	ug/l	90	91	71-116	2	30

Batch number: 13212WAF026

Sample number(s): 7143369-7143388

Acenaphthene	N.D.	0.010	0.050	ug/l	101		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	105		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	105		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	100		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	97		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	106		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	93		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	101		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	97		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	81		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	110		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	106		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	92		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	103		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	96		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	100		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	98		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	98		71-116		

Batch number: 13214WAA026

Sample number(s): 7143368,7143390

Acenaphthene	N.D.	0.010	0.050	ug/l	100	103	65-124	3	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	104	106	72-113	2	30
Anthracene	N.D.	0.010	0.050	ug/l	102	104	70-117	2	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	97	98	75-115	1	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	98	97	72-120	2	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	104	110	74-130	5	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	96	96	63-121	0	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	106	99	74-118	6	30
Chrysene	N.D.	0.010	0.050	ug/l	98	100	75-112	2	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	92	93	66-122	1	30
Fluoranthene	N.D.	0.010	0.050	ug/l	103	106	73-116	2	30
Fluorene	N.D.	0.010	0.050	ug/l	104	106	74-115	2	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	98	98	66-122	0	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	104	107	72-114	3	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	97	100	74-119	3	30
Naphthalene	N.D.	0.030	0.050	ug/l	101	105	67-118	3	30
Phenanthrene	N.D.	0.030	0.050	ug/l	96	99	72-109	2	30
Pyrene	N.D.	0.010	0.050	ug/l	94	95	71-116	2	30

Batch number: 132101848010

Sample number(s): 7143376-7143391

Arsenic	N.D.	0.0068	0.0200	mg/l	102		90-113		
Barium	0.0019 J	0.00033	0.0050	mg/l	102		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	100		90-112		

*- 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

Group Number: 1407556

Reported: 08/05/13 at 01:55 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Calcium	0.0546 J	0.0334	0.200	mg/l	101		90-110		
Chromium	N.D.	0.0016	0.0150	mg/l	103		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	97		88-110		
Magnesium	N.D.	0.0167	0.100	mg/l	99		90-110		
Nickel	N.D.	0.0015	0.0100	mg/l	103		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	92		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	113		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	104		90-110		

Batch number: 132101848011

Sample number(s): 7143368-7143375

Arsenic	N.D.	0.0068	0.0200	mg/l	100		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	99		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	102		90-112		
Calcium	N.D.	0.0334	0.200	mg/l	100		90-110		
Chromium	N.D.	0.0016	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	99		88-110		
Magnesium	N.D.	0.0167	0.100	mg/l	99		90-110		
Nickel	N.D.	0.0015	0.0100	mg/l	104		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	103		90-110		

Batch number: 132105713003

Sample number(s): 7143368-7143375

Mercury	N.D.	0.00006	0.00020	mg/l	108		80-120		
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Batch number: 132105713004

Sample number(s): 7143376-7143391

Mercury	N.D.	0.00006	0.00020	mg/l	107		80-120		
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Batch number: 13211807902A

Sample number(s): 7143368-7143372, 7143374-7143376

HEM (oil & grease)	N.D.	1.4	5.0	mg/l	88	92	78-114	5	16
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Batch number: 13212807902A

Sample number(s): 7143377-7143390

HEM (oil & grease)	N.D.	1.4	5.0	mg/l	92	94	78-114	3	16
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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: C132121AA	Sample number(s): 7143384-7143385 UNSPK: P143823								
Acetone	118	117	57-163	1	30				
Allyl Chloride	84	90	67-139	6	30				
Benzene	103	108	87-126	5	30				
Bromobenzene	100	110	80-123	10	30				
Bromochloromethane	106	110	82-125	4	30				
Bromodichloromethane	105	111	82-133	6	30				
Bromoform	92	104	60-138	12	30				
Bromomethane	111	118	41-145	7	30				
2-Butanone	116	120	63-146	3	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
Reported: 08/05/13 at 01:55 PM

Group Number: 1407556

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
n-Butylbenzene	103	115	83-131	10	30				
sec-Butylbenzene	103	114	84-128	10	30				
tert-Butylbenzene	100	114	84-135	14	30				
Carbon Tetrachloride	118	121	81-148	2	30				
Chlorobenzene	107	117	78-133	9	30				
Chloroethane	107	114	70-139	6	30				
Chloroform	110	114	86-136	3	30				
Chloromethane	98	104	55-152	6	30				
2-Chlorotoluene	100	111	81-120	10	30				
4-Chlorotoluene	102	113	82-119	10	30				
1,2-Dibromo-3-chloropropane	112	128	43-143	13	30				
Dibromochloromethane	98	108	79-125	9	30				
1,2-Dibromoethane	102	109	84-127	7	30				
Dibromomethane	104	108	83-126	4	30				
1,2-Dichlorobenzene	104	115	83-117	11	30				
1,3-Dichlorobenzene	103	114	81-118	10	30				
1,4-Dichlorobenzene	103	114	79-120	10	30				
Dichlorodifluoromethane	111	113	28-136	2	30				
1,1-Dichloroethane	101	105	88-136	4	30				
1,2-Dichloroethane	112	115	82-135	3	30				
1,1-Dichloroethene	106	110	83-150	4	30				
cis-1,2-Dichloroethene	103	107	82-129	4	30				
trans-1,2-Dichloroethene	109	113	88-127	4	30				
Dichlorofluoromethane	119	123	59-176	4	30				
1,2-Dichloropropane	102	109	91-126	6	30				
1,3-Dichloropropane	97	107	80-127	10	30				
2,2-Dichloropropane	100	105	80-134	5	30				
1,1-Dichloropropene	110	115	86-139	5	30				
cis-1,3-Dichloropropene	95	104	74-132	9	30				
trans-1,3-Dichloropropene	93	102	71-128	9	30				
Ethyl ether	77	78	67-127	1	30				
Ethylbenzene	103	112	80-140	8	30				
Freon 113	113	115	87-158	2	30				
Hexachlorobutadiene	106	115	65-128	9	30				
Isopropylbenzene	102	112	81-133	9	30				
p-Isopropyltoluene	100	110	84-124	9	30				
Methyl Tertiary Butyl Ether	86	94	82-132	8	30				
4-Methyl-2-Pentanone	87	100	69-149	14	30				
Methylene Chloride	101	103	84-122	2	30				
n-Propylbenzene	102	112	79-131	9	30				
Styrene	102	112	63-151	9	30				
1,1,1,2-Tetrachloroethane	102	114	87-126	11	30				
1,1,2,2-Tetrachloroethane	97	110	75-131	13	30				
Tetrachloroethene	110	115	75-129	5	30				
Tetrahydrofuran	114	116	56-154	2	30				
Toluene	104	111	83-127	7	30				
1,2,3-Trichlorobenzene	92	105	73-125	13	30				
1,2,4-Trichlorobenzene	94	106	77-120	12	30				
1,1,1-Trichloroethane	111	115	85-140	4	30				
1,1,2-Trichloroethane	102	113	85-129	10	30				
Trichloroethene	111	117	85-131	6	30				
Trichlorofluoromethane	131	133	67-161	2	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 SummaryClient Name: ExxonMobil
Reported: 08/05/13 at 01:55 PM

Group Number: 1407556

Sample Matrix Quality ControlUnspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
1,2,3-Trichloropropane	99	111	76-120	11	30				
1,2,4-Trimethylbenzene	100	111	87-126	11	30				
1,3,5-Trimethylbenzene	100	110	89-129	10	30				
Vinyl Chloride	108	117	65-151	8	30				
Xylene (Total)	102	111	81-137	9	30				

Batch number: G132111AA	Sample number(s): 7143370-7143383,7143386-7143388,7143390-7143392 UNSPK: 7143386								
Acetone	93	99	57-163	6	30				
Allyl Chloride	99	99	67-139	0	30				
Benzene	98	104	87-126	6	30				
Bromobenzene	96	104	80-123	7	30				
Bromochloromethane	103	106	82-125	3	30				
Bromodichloromethane	90	98	82-133	9	30				
Bromoform	90	100	60-138	10	30				
Bromomethane	101	102	41-145	1	30				
2-Butanone	83	90	63-146	8	30				
n-Butylbenzene	96	104	83-131	8	30				
sec-Butylbenzene	99	106	84-128	7	30				
tert-Butylbenzene	97	104	84-135	6	30				
Carbon Tetrachloride	98	108	81-148	10	30				
Chlorobenzene	98	106	78-133	7	30				
Chloroethane	100	100	70-139	1	30				
Chloroform	98	105	86-136	7	30				
Chloromethane	92	93	55-152	0	30				
2-Chlorotoluene	96	105	81-120	9	30				
4-Chlorotoluene	95	103	82-119	8	30				
1,2-Dibromo-3-chloropropane	83	94	43-143	13	30				
Dibromochloromethane	90	99	79-125	9	30				
1,2-Dibromoethane	93	101	84-127	8	30				
Dibromomethane	91	99	83-126	8	30				
1,2-Dichlorobenzene	96	105	83-117	9	30				
1,3-Dichlorobenzene	98	106	81-118	8	30				
1,4-Dichlorobenzene	96	106	79-120	9	30				
Dichlorodifluoromethane	84	85	28-136	2	30				
1,1-Dichloroethane	98	106	88-136	7	30				
1,2-Dichloroethane	92	99	82-135	8	30				
1,1-Dichloroethene	103	110	83-150	6	30				
cis-1,2-Dichloroethene	97	105	82-129	8	30				
trans-1,2-Dichloroethene	103	110	88-127	6	30				
Dichlorofluoromethane	107	110	59-176	3	30				
1,2-Dichloropropane	97	105	91-126	8	30				
1,3-Dichloropropane	91	98	80-127	8	30				
2,2-Dichloropropane	98	106	80-134	8	30				
1,1-Dichloropropene	106	114	86-139	7	30				
cis-1,3-Dichloropropene	94	102	74-132	8	30				
trans-1,3-Dichloropropene	89	97	71-128	8	30				
Ethyl ether	81	81	67-127	0	30				
Ethylbenzene	97	106	80-140	8	30				
Freon 113	101	110	87-158	8	30				
Hexachlorobutadiene	93	102	65-128	10	30				
Isopropylbenzene	98	107	81-133	9	30				
p-Isopropyltoluene	98	107	84-124	8	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
Reported: 08/05/13 at 01:55 PM

Group Number: 1407556

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
Methyl Tertiary Butyl Ether	90	97	82-132	7	30				
4-Methyl-2-Pentanone	89	98	69-149	9	30				
Methylene Chloride	94	101	84-122	7	30				
n-Propylbenzene	98	106	79-131	8	30				
Styrene	95	104	63-151	9	30				
1,1,1,2-Tetrachloroethane	91	101	87-126	10	30				
1,1,2,2-Tetrachloroethane	92	101	75-131	9	30				
Tetrachloroethene	105	113	75-129	7	30				
Tetrahydrofuran	78	83	56-154	6	30				
Toluene	98	105	83-127	7	30				
1,2,3-Trichlorobenzene	88	97	73-125	9	30				
1,2,4-Trichlorobenzene	92	101	77-120	9	30				
1,1,1-Trichloroethane	100	108	85-140	8	30				
1,1,2-Trichloroethane	93	99	85-129	6	30				
Trichloroethene	102	109	85-131	7	30				
Trichlorofluoromethane	108	109	67-161	1	30				
1,2,3-Trichloropropane	95	102	76-120	7	30				
1,2,4-Trimethylbenzene	97	104	87-126	7	30				
1,3,5-Trimethylbenzene	97	106	89-129	8	30				
Vinyl Chloride	103	105	65-151	1	30				
Xylene (Total)	98	105	81-137	7	30				

Batch number: I132131AA	Sample number(s): 7143368-7143369 UNSPK: P145281								
Acetone	96	60	57-163	46*	30				
Allyl Chloride	75	84	67-139	11	30				
Benzene	102	102	87-126	0	30				
Bromobenzene	89	90	80-123	2	30				
Bromochloromethane	94	101	82-125	8	30				
Bromodichloromethane	97	97	82-133	1	30				
Bromoform	92	90	60-138	2	30				
Bromomethane	86	93	41-145	9	30				
2-Butanone	107	98	63-146	9	30				
n-Butylbenzene	94	100	83-131	6	30				
sec-Butylbenzene	96	100	84-128	4	30				
tert-Butylbenzene	93	96	84-135	3	30				
Carbon Tetrachloride	98	99	81-148	1	30				
Chlorobenzene	102	102	78-133	1	30				
Chloroethane	91	97	70-139	6	30				
Chloroform	100	100	86-136	0	30				
Chloromethane	92	97	55-152	6	30				
2-Chlorotoluene	94	96	81-120	2	30				
4-Chlorotoluene	96	97	82-119	1	30				
1,2-Dibromo-3-chloropropane	107	101	43-143	6	30				
Dibromochloromethane	96	95	79-125	1	30				
1,2-Dibromoethane	100	100	84-127	0	30				
Dibromomethane	98	96	83-126	2	30				
1,2-Dichlorobenzene	97	98	83-117	1	30				
1,3-Dichlorobenzene	96	97	81-118	1	30				
1,4-Dichlorobenzene	96	98	79-120	2	30				
Dichlorodifluoromethane	79	79	28-136	0	30				
1,1-Dichloroethane	95	94	88-136	1	30				
1,2-Dichloroethane	95	93	82-135	2	30				

*- Outside of specification

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 08/05/13 at 01:55 PM

Group Number: 1407556

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
1,1-Dichloroethene	99	100	83-150	1	30				
cis-1,2-Dichloroethene	96	98	82-129	1	30				
trans-1,2-Dichloroethene	101	102	88-127	1	30				
Dichlorofluoromethane	96	101	59-176	6	30				
1,2-Dichloropropane	106	105	91-126	1	30				
1,3-Dichloropropane	99	99	80-127	1	30				
2,2-Dichloropropane	85	86	80-134	2	30				
1,1-Dichloropropene	103	103	86-139	0	30				
cis-1,3-Dichloropropene	94	93	74-132	0	30				
trans-1,3-Dichloropropene	89	89	71-128	0	30				
Ethyl ether	72	70	67-127	2	30				
Ethylbenzene	98	99	80-140	0	30				
Freon 113	100	97	87-158	2	30				
Hexachlorobutadiene	73	90	65-128	21	30				
Isopropylbenzene	98	99	81-133	1	30				
p-Isopropyltoluene	93	96	84-124	4	30				
Methyl Tertiary Butyl Ether	84	86	82-132	2	30				
4-Methyl-2-Pentanone	101	100	69-149	2	30				
Methylene Chloride	94	95	84-122	2	30				
n-Propylbenzene	97	99	79-131	3	30				
Styrene	97	97	63-151	1	30				
1,1,1,2-Tetrachloroethane	98	99	87-126	1	30				
1,1,2,2-Tetrachloroethane	104	105	75-131	1	30				
Tetrachloroethene	92	93	75-129	0	30				
Tetrahydrofuran	104	102	56-154	2	30				
Toluene	100	100	83-127	0	30				
1,2,3-Trichlorobenzene	89	94	73-125	5	30				
1,2,4-Trichlorobenzene	88	92	77-120	5	30				
1,1,1-Trichloroethane	94	95	85-140	1	30				
1,1,2-Trichloroethane	103	103	85-129	1	30				
Trichloroethene	104	104	85-131	0	30				
Trichlorofluoromethane	97	105	67-161	8	30				
1,2,3-Trichloropropane	102	102	76-120	0	30				
1,2,4-Trimethylbenzene	95	97	87-126	3	30				
1,3,5-Trimethylbenzene	94	97	89-129	3	30				
Vinyl Chloride	97	101	65-151	5	30				
Xylene (Total)	98	98	81-137	0	30				

Batch number: 13212WAF026

Sample number(s): 7143369-7143388 UNSPK: 7143386

Acenaphthene	93	87	59-127	6	30
Acenaphthylene	96	91	33-146	5	30
Anthracene	69	62*	69-119	10	30
Benzo(a)anthracene	81	76	67-124	7	30
Benzo(a)pyrene	39*	34*	64-123	13	30
Benzo(b)fluoranthene	70	63	61-133	10	30
Benzo(g,h,i)perylene	55	50	36-138	10	30
Benzo(k)fluoranthene	67	61	59-128	10	30
Chrysene	66	60*	62-118	10	30
Dibenz(a,h)anthracene	59	53	32-141	11	30
Fluoranthene	96	90	65-123	6	30
Fluorene	98	92	69-124	6	30
Indeno(1,2,3-cd)pyrene	58	53	29-143	10	30

*- Outside of specification

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- (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 SummaryClient Name: ExxonMobil
Reported: 08/05/13 at 01:55 PM

Group Number: 1407556

Sample Matrix Quality ControlUnspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
1-Methylnaphthalene	98	92	67-117	6	30				
2-Methylnaphthalene	91	86	71-126	6	30				
Naphthalene	97	91	58-131	6	30				
Phenanthrene	90	85	67-117	6	30				
Pyrene	79	87	59-125	10	30				
Batch number: 132101848010 Sample number(s): 7143376-7143391 UNSPK: 7143386 BKG: 7143386									
Arsenic	109	104	81-123	5	20	N.D.	N.D.	0 (1)	20
Barium	109	105	78-118	4	20	0.0325	0.0309	5	20
Cadmium	101	101	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	135*	101	81-118	13	20	5.53	5.29	5	20
Chromium	109	105	81-120	4	20	N.D.	N.D.	0 (1)	20
Lead	107	100	75-125	7	20	N.D.	N.D.	0 (1)	20
Magnesium	150*	101	75-125	19	20	2.60	2.50	4	20
Nickel	105	104	86-115	1	20	0.0016 J	0.0024 J	41* (1)	20
Selenium	92	91	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	116	115	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	111	107	90-111	4	20	N.D.	N.D.	0 (1)	20
Batch number: 132101848011 Sample number(s): 7143368-7143375 UNSPK: P143362 BKG: P143362									
Arsenic	102	104	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	102	102	78-118	1	20	0.0292	0.0283	3	20
Cadmium	103	101	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	99	104	81-118	2	20	5.59	5.64	1	20
Chromium	103	103	81-120	0	20	N.D.	N.D.	0 (1)	20
Lead	98	98	75-125	0	20	N.D.	N.D.	0 (1)	20
Magnesium	97	101	75-125	2	20	2.52	2.53	0	20
Nickel	105	105	86-115	0	20	N.D.	0.0016 J	200* (1)	20
Selenium	93	95	75-125	2	20	N.D.	N.D.	0 (1)	20
Silver	113	111	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	105	105	90-111	0	20	N.D.	N.D.	0 (1)	20
Batch number: 132105713003 Sample number(s): 7143368-7143375 UNSPK: P143360 BKG: P143360									
Mercury	111	112	80-120	0	20	N.D.	N.D.	0 (1)	20
Batch number: 132105713004 Sample number(s): 7143376-7143391 UNSPK: 7143386 BKG: 7143386									
Mercury	110	108	80-120	1	20	N.D.	N.D.	0 (1)	20
Batch number: 13211807902A Sample number(s): 7143368-7143372,7143374-7143376 UNSPK: P143356									
HEM (oil & grease)	40*		78-114						
Batch number: 13212807902A Sample number(s): 7143377-7143390 UNSPK: 7143386 BKG: 7143386									
HEM (oil & grease)	51*	16*	78-114	108*	29	N.D.	N.D.	0 (1)	18

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

*- Outside of specification

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Quality Control Summary

Client Name: ExxonMobil
Reported: 08/05/13 at 01:55 PM

Group Number: 1407556

Surrogate Quality Control

Analysis Name: BTEX 25-ml purge
Batch number: C132121AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7143384	103	100	98	95
7143385	103	99	98	95
Blank	102	97	98	94
LCS	102	98	98	97
MS	103	101	99	99
MSD	101	98	100	98
Limits:	77-114	74-113	77-110	78-110

Analysis Name: BTEX 25-ml purge
Batch number: G132111AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7143370	101	104	99	98
7143371	101	101	99	97
7143372	100	101	99	97
7143373	100	102	98	96
7143374	100	101	99	97
7143375	100	100	99	97
7143376	100	102	99	98
7143377	101	104	98	97
7143378	100	104	99	96
7143379	101	101	99	97
7143380	101	101	99	97
7143381	100	102	99	97
7143382	101	103	98	96
7143383	102	103	98	96
7143386	101	100	99	97
7143387	101	104	100	97
7143388	100	101	100	97
7143390	101	101	98	97
7143391	101	105	98	97
7143392	102	102	98	97
Blank	100	102	99	97
LCS	101	102	99	98
MS	101	104	100	97
MSD	100	101	100	97
Limits:	77-114	74-113	77-110	78-110

Analysis Name: BTEX 25-ml purge
Batch number: I132131AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7143368	96	99	96	93
7143369	97	100	96	93
Blank	97	102	97	93
LCS	96	98	99	98
MS	98	105	98	101
MSD	98	103	98	100
Limits:	77-114	74-113	77-110	78-110

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Quality Control Summary

Client Name: ExxonMobil
Reported: 08/05/13 at 01:55 PM

Group Number: 1407556

Surrogate Quality Control

Analysis Name: PAHs in waters by SIM
Batch number: 13212WAE026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7143391	102	100	107
Blank	100	100	108
LCS	100	98	107
LCSD	101	100	108
Limits:	64-120	62-141	58-134

Analysis Name: PAHs in waters by SIM
Batch number: 13212WAF026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7143369	66	43*	70
7143370	84	55*	92
7143371	90	61*	98
7143372	95	58*	102
7143373	92	86	93
7143374	95	54*	103
7143375	89	49*	100
7143376	95	45*	103
7143377	87	47*	97
7143378	92	50*	99
7143379	90	43*	100
7143380	95	50*	104
7143381	94	46*	102
7143382	95	38*	103
7143383	93	57*	101
7143384	94	46*	103
7143385	53*	39*	62
7143386	84	49*	90
7143387	93	52*	104
7143388	87	46*	98
Blank	100	83	102
LCS	103	101	110
MS	93	52*	104
MSD	87	46*	98
Limits:	64-120	62-141	58-134

Analysis Name: PAHs in waters by SIM
Batch number: 13214WAA026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7143368	68	54*	84
7143390	92	68	100
Blank	90	93	97
LCS	96	100	108
LCSD	97	98	109

*- Outside of specification

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Quality Control Summary

Client Name: ExxonMobil
Reported: 08/05/13 at 01:55 PM

Group Number: 1407556

Surrogate Quality Control

Limits: 64-120 62-141 58-134

*- Outside of specification

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ExxonMobil Analysis Request/Chain of Custody



Lancaster
Laboratories

Acct. # 14739 Group # 1407556 For Lancaster Laboratories use only Sample # 7143368-92
Instructions on reverse side correspond with circled numbers.

2. f3

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks			
Facility #/SID <u>Mayflower Pipeline Incident</u>				☐ Sediment ☐ Potable ☐ Ground ☒ Surface ☐ NPDES ☐ Air				Preservation Code										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other			
Site Address <u>Mayflower, AR</u>								H N H VOCs 8260.B PAHs 8270.SJM ACRA Metals VINI, Ca, Mg Diss Metals HEM Oil & Grease													
ExxonMobil PM <u>Scott Bushrae</u>		Cost Center/AFE		Total # of Containers 9														* Lab to Filter and preserve diss metals upon receipt			
Consultant/Office <u>Arcadis</u>		Consultant Phone # <u>919 202 6779</u>																			
Sampler <u>J. Waldron / H. Van Aller</u>																					
2 Sample Identification			3 Collected		Grab	Composite	Soil	Water	Oil	Total # of Containers											
			Date	Time																	
WS-007(0.5-1.0)072713			7/27/13	1250	X			X		9	X	X	X	X	X						
WS-006(0.5-1.0)072713			7/27/13	1310	X			X		9	X	X	X	X	X						
DUP-WS-62-072713			7/27/13	—	X			X		9	X	X	X	X	X						
WS-001(0.5-1.0)072713			7/27/13	1320	X			X		9	X	X	X	X	X						
WS-014(1.5-2.0)072813			7/28/13	830	X			X		9	X	X	X	X	X						
WS-EB-12-072713			7/27/13	1420	X			X		7	X	X	X	X							
WS-014(5.5-6.0)072813			7/28/13	840	X			X		9	X	X	X	X	X						
WS-012(1.5-2.0)072813				850	X			X		9	X	X	X	X	X						
WS-012(5.0-5.5)072813				900	X			X		9	X	X	X	X	X						
WS-010(1.5-2.0)072813				920	X			X		9	X	X	X	X	X						
WS-010(3.5-4.0)072813				930	X			X		9	X	X	X	X	X						
WS-005(Surface)072813				950	X			X		9	X	X	X	X	X						

7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>H. Van Aller</u>		Date <u>7/28/13</u>	Time <u>1700</u>	Received by		Date	Time
Standard <u>5 day</u> 4 day											
72 hour 48 hour 24 hour											
8 Data Package (circle if required)				Relinquished by Commercial Carrier		Received by		Date		Time	
Type I - Full				UPS FedEx <u>Other Southwest</u>		<u>[Signature]</u>		<u>7/29/13</u>		<u>1525</u>	
Type VI (Raw Data)											
NJ Reduced											
Other											
Temperature Upon Receipt <u>0.4°-5.9°C</u>						Custody Seals Intact? <u>Yes</u> No					

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only

Group # 1402556 Sample # 1143368-92

Instructions on reverse side correspond with circled numbers.

3 of 3

1 Client Information				4 Matrix		5 Analyses Requested										6 Remarks																													
Facility #/SID <u>Mayflower Pipeline Incident</u>				☐ Sediment ☐ Potable ☐ Ground ☒ Surface ☐ NPDES ☐ Air		Preservation Code										SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																													
Site Address <u>Mayflower, AR</u>						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>H</td><td>N</td><td>H</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td><u>VOCs B260 B</u></td> <td><u>PAHs B270 SIM</u></td> <td><u>PCRA Metals V, Ni, Cd, Pb</u></td> <td><u>Diss Metals</u></td> <td><u>HEM Oil Grease</u></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										H	N	H													<u>VOCs B260 B</u>	<u>PAHs B270 SIM</u>	<u>PCRA Metals V, Ni, Cd, Pb</u>	<u>Diss Metals</u>	<u>HEM Oil Grease</u>										
H	N	H																																											
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Consultant PM <u>Steve Barrick</u>				Consultant Phone # <u>919 202 6779</u>																																									
Sampler <u>H. Van Alier / J. Waldron</u>																																													
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total # of Containers																																				
Date	Time																																												
<u>WS-011(1.5-2.0)072813</u>	<u>7/28/13</u>	<u>1020</u>	<u>X</u>				<u>X</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																															
<u>WS-011(5.0-5.5)072813</u>		<u>1030</u>	<u>X</u>				<u>X</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																															
<u>WS-003(surface)072813</u>		<u>1040</u>	<u>X</u>				<u>X</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																															
<u>WS-002(surface)072813</u>		<u>1120</u>	<u>X</u>				<u>X</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																															
<u>WS-018(surface)072813</u>		<u>1050</u>	<u>X</u>				<u>X</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																															
<u>WS-007(0.5-1.0)072813</u>		<u>1130</u>	<u>X</u>				<u>X</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																															
<u>WS-006(0.5-1.0)072813</u>		<u>1150</u>	<u>X</u>				<u>X</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																															
<u>WS-006(0.5-1.0)072813 MS/MSD</u>		<u>1150</u>	<u>X</u>				<u>X</u>		<u>10</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						<u>MS/MSD</u>																									
<u>WS-001(0.5-1.0)072813</u>		<u>1210</u>	<u>X</u>				<u>X</u>		<u>9</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																															
<u>WS-EB-13-072813</u>		<u>1400</u>	<u>X</u>				<u>X</u>		<u>7</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																																
<u>WS-TB-108-072813</u>		<u>—</u>	<u>X</u>				<u>X</u>		<u>2</u>	<u>X</u>																																			

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by <u>H. Van Alier</u>		Date <u>7/28/13</u>	Time <u>1700</u>	Received by	Date	Time	9
Standard <u>5 day</u> 4 day			Relinquished by		Date	Time	Received by	Date	Time	
72 hour 48 hour 24 hour			Relinquished by		Date	Time	Received by	Date	Time	
			Relinquished by		Date	Time	Received by	Date	Time	
8 Data Package (circle if required)			EDD (circle if required)		Relinquished by Commercial Carrier		Received by	Date	Time	
Type I - Full			Locus EIM (default)		UPS FedEx <u>Other Southwest</u>		<u>[Signature]</u>	<u>7/29/13</u>	<u>1525</u>	
Type VI (Raw Data)			Other _____		Temperature Upon Receipt <u>04-5.9 °C</u>		Custody Seals Intact?	<u>Yes</u>	No	
NJ Reduced										
Other _____										

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

7053 0713

Rachel L. Creamer A# 14739 Gr# 1407556 Samples 7143368-92

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Tuesday, July 30, 2013 10:05 AM
To: Rachel L. Creamer
Cc: Kathy Klinefelter; Chandler, Jennifer
Subject: RE: Surface water collection time from 7/27

Rachel,

Please proceed with the analyses since the sample jar temps were < 6 degrees C.

The collection time for sample WS-001(0.5-1.0)072713 is listed as 1320 on the chain is correct.

Lyndi Mott

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

From: Rachel L. Creamer [mailto:RKreamer@lanasterlabs.com]
Sent: Tuesday, July 30, 2013 8:45 AM
To: Mott, Lyndi
Cc: Kathy Klinefelter
Subject: Surface water collection time from 7/27

Good morning Lyndi.

I attached the chains and doc logs for the surface waters we received yesterday afternoon. This includes samples collected 7/27 and 7/28.

Although the temp bottles in several of the coolers measured >6C, the surface temps of bottles in the four corners and centers of the coolers were <6C. The details are noted on the doc logs. We'll proceed with analyses unless otherwise instructed.

In addition, the collection time for sample WS-001(0.5-1.0)072713 is listed as 1320 on the chain but the labels say 1330. Which time shall we use?

Thanks
Rachel

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

From: 39Scanner@lanasterlabs.com [mailto:39Scanner@lanasterlabs.com]
Sent: Tuesday, July 30, 2013 9:35 AM
To: Rachel L. Creamer
Subject:

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

Scan Date: 07.30.2013 09:35:22 (-0400)
Queries to: 39Scanner@lanasterlabs.com

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Environmental Sample Administration
Receipt Documentation LogClient/Project: Exxon MobilShipping Container Sealed: YES NODate of Receipt: 7/29/13Custody Seal Present * : YES NOTime of Receipt: 1525* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 01Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.1	TB	WI	Y	B	
2	DT121 1396	7.2	TB ST	WI	Y	B	3.6 2.4 3.5 4.5 3.0
3	DT121	5.9	TB	WI	Y	B	
4	↓	2.9	↓	↓	↓	↓	
5	↓	2.7	↓	↓	↓	↓	
6	DT121 1396	6.4	TB ST	WI	Y	B	3.7 3.1 3.2 3.0 3.5

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

Paperwork Discrepancy/Unpacking Problems:

WS-001 (0.5-1.0) - 072713 time = 1330Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 7/29/13 1655

Issued by Dept. 6042 Management

Environmental Sample Administration
Receipt Documentation LogClient/Project: Exxon MobilShipping Container Sealed: YES NODate of Receipt: 7/29/13Custody Seal Present * : YES NOTime of Receipt: 1525* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 01Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
27	DT121	0.4	TB	WI	Y	B	
28	DT121 1396	7.2	TB ST	WI	Y	B	2.9 2.7 2.4 2.7 2.8 2.7
29	DT121	1.2	TB	WI	Y	B	
30	↓	1.2	↓	↓	↓	↓	
31	↓	1.0	↓	↓	↓	↓	
32	↓	2.6	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 7/29/13 1655

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

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

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

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

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

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