ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

August 16, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 08/09/2013
Group Number: 1410354
SDG: PEK35
PO Number: ARCADIS
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LL) #
WS-014(1.5-2.0)080813 Grab Surface Water	7155687
WS-014(5.5-6.0)080813 Grab Surface Water	7155688
WS-012(1.5-2.0)080813 Grab Surface Water	7155689
WS-012(5.0-5.5)080813 Grab Surface Water	7155690
WS-010(1.5-2.0)080813 Grab Surface Water	7155691
WS-010(3.5-4.0)080813 Grab Surface Water	7155692
WS-006(0.5-1.0)080813 Grab Surface Water	7155693
WS-005(Surface)080813 Grab Surface Water	7155694
WS-011(1.5-2.0)080813 Grab Surface Water	7155695
WS-011(5.0-5.5)080813 Grab Surface Water	7155696
WS-003(Surface)080813 Grab Surface Water	7155697
WS-002(Surface)080813 Grab Surface Water	7155698
WS-018(Surface)080813 Grab Surface Water	7155699
WS-007(0.5-1.0)080813 Grab Surface Water	7155700
WS-001(0.5-1.0)080813 Grab Surface Water	7155701
WS-TB-119-080813 Water	7155702
WS-EB-24-080813 Grab Water	7155703
DUP-WS-68-080813 Grab Surface Water	7155704

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	ExxonMobil	Attn: Michael J. Firth

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

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1410354

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

Analysis Specific Comments:

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13224WAB026 (Sample number(s): 7155687-7155701, 7155703-7155704)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7155687, 7155688, 7155689, 7155690, 7155691, 7155692, 7155693, 7155694, 7155695, 7155696, 7155697, 7155698, 7155699

Sample #s: 7155700, 7155701, 7155703, 7155704

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

Sample #s: 7155687, 7155688, 7155689, 7155690, 7155691, 7155692, 7155693, 7155694, 7155695, 7155696, 7155697, 7155698, 7155699

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.
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 7470A, Metals

Batch #: 132235713001 (Sample number(s): 7155687-7155701, 7155703-7155704 UNSPK: 7155699 BKG: 7155699)

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

EPA 1664A, Wet Chemistry

Batch #: 13226807902A (Sample number(s): 7155687-7155701, 7155704 UNSPK: 7155687)

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

Sample Description: WS-014(1.5-2.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155687
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80141 SDG#: PEK35-01

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155687
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80141 SDG#: PEK35-01

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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 laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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 CaCO3	471-34-1	26.9	0.033	0.20	1

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

Sample Description: WS-014(1.5-2.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155687
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80141 SDG#: PEK35-01

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**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0365	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.16	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	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	C132212AA	08/10/2013 00:33	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 00:33	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 05:05	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 05:57	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 05:57	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 05:57	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 05:57	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 05:57	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 05:57	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 05:57	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 05:57	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 05:57	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 05:57	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 05:57	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:13	Parker D Lindstrom	1

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

Sample Description: WS-014(1.5-2.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155687
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80141 SDG#: PEK35-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-014(5.5-6.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155688
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80142 SDG#: PEK35-02

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155688
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80142 SDG#: PEK35-02

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 purge**		**ug/l**		**ug/l**	**ug/l**	
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	0.051	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.		0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.		0.031	0.051	1
08357	Pyrene	129-00-0	N.D.		0.010	0.051	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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 CaCO3	471-34-1	26.7		0.033	0.20	1

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

Sample Description: WS-014(5.5-6.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155688
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80142 SDG#: PEK35-02

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**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0405	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.11	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	2.78	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	C132212AA	08/10/2013 01:42	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 01:42	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 05:34	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 06:01	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 06:01	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 06:01	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 06:01	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 06:01	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 06:01	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 06:01	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 06:01	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 06:01	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 06:01	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 06:01	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:16	Parker D Lindstrom	1

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

Sample Description: WS-014(5.5-6.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155688
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80142 SDG#: PEK35-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-012(1.5-2.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155689
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80121 SDG#: PEK35-03

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155689
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80121 SDG#: PEK35-03

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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 laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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 CaCO3	471-34-1	26.3	0.033	0.20	1

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

Sample Description: WS-012(1.5-2.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155689
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80121 SDG#: PEK35-03

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**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0249	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.02	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	2.74	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	C132212AA	08/10/2013 02:04	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 02:04	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 08:01	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 06:12	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 06:12	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 06:12	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 06:12	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 06:12	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 06:12	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 06:12	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 06:12	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 06:12	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 06:12	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 06:12	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:18	Parker D Lindstrom	1

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

Sample Description: WS-012(1.5-2.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155689
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80121 SDG#: PEK35-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-012(5.0-5.5)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155690
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80122 SDG#: PEK35-04

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155690
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80122 SDG#: PEK35-04

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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 laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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 CaCO3	471-34-1	26.2	0.033	0.20	1

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

Sample Description: WS-012(5.0-5.5)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155690
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80122 SDG#: PEK35-04

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**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0266	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.99	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	2.73	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	C132212AA	08/10/2013 02:27	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 02:27	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 08:31	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 06:16	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 06:16	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 06:16	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 06:16	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 06:16	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 06:16	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 06:16	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 06:16	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 06:16	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 06:16	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 06:16	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:24	Parker D Lindstrom	1

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

Sample Description: WS-012(5.0-5.5)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155690
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80122 SDG#: PEK35-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-010(1.5-2.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155691
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80101 SDG#: PEK35-05

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155691
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80101 SDG#: PEK35-05

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 purge**		**ug/l**		**ug/l**	**ug/l**	
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	0.1	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.		0.011	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.		0.033	0.054	1
08357	Phenanthrene	85-01-8	N.D.		0.033	0.054	1
08357	Pyrene	129-00-0	N.D.		0.011	0.054	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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 CaCO3	471-34-1	25.6		0.033	0.20	1

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

Sample Description: WS-010(1.5-2.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155691
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80101 SDG#: PEK35-05

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**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0282	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.83	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	2.68	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	C132212AA	08/10/2013 02:49	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 02:49	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 09:00	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 06:19	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 06:19	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 06:19	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 06:19	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 06:19	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 06:19	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 06:19	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 06:19	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 06:19	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 06:19	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 06:19	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:26	Parker D Lindstrom	1

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

Sample Description: WS-010(1.5-2.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155691
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80101 SDG#: PEK35-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-010(3.5-4.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155692
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80102 SDG#: PEK35-06

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155692
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80102 SDG#: PEK35-06

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	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	N.D.	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	N.D.	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	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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 CaCO3	471-34-1	24.3	0.033	0.20	1

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

Sample Description: WS-010(3.5-4.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155692
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80102 SDG#: PEK35-06

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**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0280	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
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	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	C132212AA	08/10/2013 03:12	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 03:12	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 09:30	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 06:23	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 06:23	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 06:23	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 06:23	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 06:23	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 06:23	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 06:23	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 06:23	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 06:23	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 06:23	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 06:23	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:28	Parker D Lindstrom	1

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

Sample Description: WS-010(3.5-4.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155692
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80102 SDG#: PEK35-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-006(0.5-1.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155693
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80006 SDG#: PEK35-07

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 purge**		ug/l	ug/l	ug/l	
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)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155693
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80006 SDG#: PEK35-07

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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 laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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 CaCO3	471-34-1	24.5	0.033	0.20	1

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

Sample Description: WS-006(0.5-1.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155693
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80006 SDG#: PEK35-07

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**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0254	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.58	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	2.58	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.	2.7 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	C132212AA	08/10/2013 03:34	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 03:34	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 09:59	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 05:35	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 05:35	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 05:35	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 05:35	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 05:35	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 05:35	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 05:35	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 05:35	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 05:35	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 05:35	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 05:35	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:30	Parker D Lindstrom	1

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

Sample Description: WS-006(0.5-1.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155693
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80006 SDG#: PEK35-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-005(Surface)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155694
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/08/2013 09:40 by JW

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80005 SDG#: PEK35-08

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155694
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/08/2013 09:40 by JW

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80005 SDG#: PEK35-08

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	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	N.D.	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	N.D.	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	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.015 J	0.010	0.052	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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 CaCO3	471-34-1	29.9	0.033	0.20	1

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

Sample Description: WS-005(Surface)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155694
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/08/2013 09:40 by JW

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80005 SDG#: PEK35-08

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**	
07035	Arsenic	7440-38-2	0.0077 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0739	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	7.21	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	2.89	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	0.0023 J	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	C132212AA	08/10/2013 03:57	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 03:57	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 10:29	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 06:27	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 06:27	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 06:27	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 06:27	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 06:27	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 06:27	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 06:27	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 06:27	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 06:27	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 06:27	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 06:27	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:32	Parker D Lindstrom	1

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

Sample Description: WS-005(Surface)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155694
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/08/2013 09:40 by JW

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80005 SDG#: PEK35-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-011(1.5-2.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155695
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80111 SDG#: PEK35-09

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155695
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80111 SDG#: PEK35-09

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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	26.7	0.033	0.20	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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.

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

Sample Description: WS-011(1.5-2.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155695
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80111 SDG#: PEK35-09

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**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0336	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.04	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	2.81	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	C132212AA	08/10/2013 04:19	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 04:19	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 10:58	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 06:31	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 06:31	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 06:31	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 06:31	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 06:31	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 06:31	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 06:31	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 06:31	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 06:31	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 06:31	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 06:31	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:34	Parker D Lindstrom	1

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

Sample Description: WS-011(1.5-2.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155695
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80111 SDG#: PEK35-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-011(5.0-5.5)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155696
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80112 SDG#: PEK35-10

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155696
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80112 SDG#: PEK35-10

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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 laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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 CaCO3	471-34-1	26.9	0.033	0.20	1

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

Sample Description: WS-011(5.0-5.5)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155696
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80112 SDG#: PEK35-10

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**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0558	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.12	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	2.82	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	C132212AA	08/10/2013 04:41	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 04:41	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 11:27	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 06:34	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 06:34	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 06:34	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 06:34	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 06:34	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 06:34	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 06:34	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 06:34	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 06:34	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 06:34	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 06:34	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:36	Parker D Lindstrom	1

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

Sample Description: WS-011(5.0-5.5)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155696
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80112 SDG#: PEK35-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-003(Surface)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155697
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80003 SDG#: PEK35-11

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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-003(Surface)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155697
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80003 SDG#: PEK35-11

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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 laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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 CaCO3	471-34-1	27.0	0.033	0.20	1

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

Sample Description: WS-003(Surface)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155697
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80003 SDG#: PEK35-11

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**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0336	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.25	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	2.77	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	C132212AA	08/10/2013 05:03	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 05:03	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 11:57	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 06:38	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 06:38	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 06:38	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 06:38	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 06:38	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 06:38	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 06:38	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 06:38	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 06:38	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 06:38	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 06:38	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:38	Parker D Lindstrom	1

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

Sample Description: WS-003(Surface)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155697
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80003 SDG#: PEK35-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-002(Surface)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155698
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80002 SDG#: PEK35-12

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155698
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80002 SDG#: PEK35-12

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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 laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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 CaCO3	471-34-1	26.2	0.033	0.20	1

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

Sample Description: WS-002(Surface)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155698
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80002 SDG#: PEK35-12

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**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0283	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.97	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	2.73	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	C132212AA	08/10/2013 05:26	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 05:26	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 12:26	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 06:42	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 06:42	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 06:42	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 06:42	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 06:42	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 06:42	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 06:42	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 06:42	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 06:42	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 06:42	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 06:42	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:40	Parker D Lindstrom	1

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

Sample Description: WS-002(Surface)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155698
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80002 SDG#: PEK35-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-018(Surface)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155699
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80018 SDG#: PEK35-13

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155699
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80018 SDG#: PEK35-13

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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 laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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 CaCO3	471-34-1	26.8	0.033	0.20	1

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

Sample Description: WS-018(Surface)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155699
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80018 SDG#: PEK35-13

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**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0457	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.09	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	2.83	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	0.00013 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	C132212AA	08/10/2013 05:49	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 05:49	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 12:56	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 06:45	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 06:45	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 06:45	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 06:45	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 06:45	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 06:45	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 06:45	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 06:45	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 06:45	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 06:45	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 06:45	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:42	Parker D Lindstrom	1

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

Sample Description: WS-018(Surface)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155699
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80018 SDG#: PEK35-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-007(0.5-1.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155700
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80007 SDG#: PEK35-14

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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-007(0.5-1.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155700
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80007 SDG#: PEK35-14

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 purge**		**ug/l**		**ug/l**	**ug/l**	
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	0.5	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	0.051	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.051	1
08357	Anthracene	120-12-7	0.013	J	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	0.018	J	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	0.014	J	0.010	0.051	1
08357	Chrysene	218-01-9	0.021	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	0.044	J	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	0.029	J	0.010	0.051	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	25.4		0.033	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0119	J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.111		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00076	0.0050	1

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

Sample Description: WS-007(0.5-1.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155700
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80007 SDG#: PEK35-14

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**	
01750	Calcium	7440-70-2	4.89	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0120 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0326	0.0047	0.0150	1
01757	Magnesium	7439-95-4	3.21	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0116	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	0.0164	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	C132212AA	08/10/2013 06:11	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 06:11	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 13:25	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 06:56	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 06:56	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 06:56	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 06:56	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 06:56	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 06:56	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 06:56	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 06:56	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 06:56	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 06:56	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 06:56	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:56	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155700
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80007 SDG#: PEK35-14

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	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-001(0.5-1.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155701
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/08/2013 11:50 by JW

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80001 SDG#: PEK35-15

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155701
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/08/2013 11:50 by JW

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80001 SDG#: PEK35-15

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	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	N.D.	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	N.D.	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	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
	The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	26.6	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	0.0313	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1

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

Sample Description: WS-001(0.5-1.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155701
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/08/2013 11:50 by JW

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80001 SDG#: PEK35-15

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**	
01750	Calcium	7440-70-2	6.17	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	2.72	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	C132212AA	08/10/2013 06:34	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 06:34	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 13:54	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/16/2013 05:59	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 07:00	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 07:00	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 07:00	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 07:00	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 07:00	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 07:00	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 07:00	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 07:00	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 07:00	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 07:00	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 07:00	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 16:58	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155701
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/08/2013 11:50 by JW

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80001 SDG#: PEK35-15

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	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Sample Description: WS-TB-119-080813 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155702
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/08/2013

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80119 SDG#: PEK35-16TB

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 purge**		ug/l	ug/l	ug/l	
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-119-080813 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155702
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/08/2013

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

80119 SDG#: PEK35-16TB

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 purge**		ug/l	ug/l	ug/l	
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	C132212AA	08/09/2013 22:39	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/09/2013 22:39	Sara E Johnson	1

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

Sample Description: WS-EB-24-080813 Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155703
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

8EB24 SDG#: PEK35-17EB

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 purge**		ug/l		ug/l	ug/l	
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	0.2	J	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	0.4	J	0.2	0.5	1

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

Sample Description: WS-EB-24-080813 Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155703
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

8EB24 SDG#: PEK35-17EB

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	0.2 J	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	1.5	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 laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	1.4	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	0.0018 J	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1

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

Sample Description: WS-EB-24-080813 Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155703
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

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

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

8EB24 SDG#: PEK35-17EB

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**	
01750	Calcium	7440-70-2	0.429	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	0.0783 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	C132212AA	08/09/2013 23:02	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/09/2013 23:02	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/13/2013 14:24	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132276256001	08/16/2013 12:17	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 07:04	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 07:04	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 07:04	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132271848001	08/16/2013 11:34	Deborah A Krady	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 07:04	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 07:04	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	3	132271848001	08/15/2013 16:56	John P Hook	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 07:04	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 07:04	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 07:04	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 07:04	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 17:01	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	132271848001	08/15/2013 10:05	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1

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

Sample Description: DUP-WS-68-080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155704
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/08/2013 by JW

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

8DU68 SDG#: PEK35-18FD*

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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-68-080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155704
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/08/2013 by JW

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

8DU68 SDG#: PEK35-18FD*

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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 laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	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	0.0251	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1

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

Sample Description: DUP-WS-68-080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155704
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/08/2013 by JW

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

8DU68 SDG#: PEK35-18FD*

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**	
01750	Calcium	7440-70-2	5.85	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	2.63	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	C132212AA	08/10/2013 06:56	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132212AA	08/10/2013 06:56	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13224WAB026	08/14/2013 19:35	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13224WAB026	08/12/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	132266256001	08/14/2013 08:38	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	132211848002	08/14/2013 07:07	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	132211848002	08/14/2013 07:07	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	132211848002	08/14/2013 07:07	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	132211848002	08/14/2013 07:07	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	132211848002	08/14/2013 07:07	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	132211848002	08/14/2013 07:07	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	132211848002	08/14/2013 07:07	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	132211848002	08/14/2013 07:07	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	132211848002	08/14/2013 07:07	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	132211848002	08/14/2013 07:07	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	132211848002	08/14/2013 07:07	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	132235713001	08/14/2013 17:03	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	132211848002	08/10/2013 09:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	132235713001	08/12/2013 15:30	Nelli S Markaryan	1

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

Sample Description: DUP-WS-68-080813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7155704
LL Group # 1410354
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 08/08/2013 by JW

Submitted: 08/09/2013 10:00
Reported: 08/16/2013 12:20

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

8DU68 SDG#: PEK35-18FD*

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	13226807902A	08/14/2013 17:11	Michelle L Lalli	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1410354
Reported: 08/16/13 at 12:20 PM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: C132212AA	Sample number(s): 7155687-7155704								
Acetone	N.D.	3.0	5.0	ug/l	99		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	83		61-130		
Benzene	N.D.	0.1	0.5	ug/l	102		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	108		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	107		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	104		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	100		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	91		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	112		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	95		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	108		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	88		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	99		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	94		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	104		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	105		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	106		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103		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	86		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	100		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	103		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	104		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	99		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	102		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	105		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	104		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	95		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	100		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	103		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	103		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: 1410354
Reported: 08/16/13 at 12:20 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	99		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	102		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	107		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	108		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
Styrene	N.D.	0.1	0.5	ug/l	106		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	107		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	104		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	104		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	92		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	109		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	108		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	107		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	106		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	102		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	106		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	102		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	94		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	103		80-120		
Batch number: 13224WAB026	Sample number(s): 7155687-7155701,7155703-7155704								
Acenaphthene	N.D.	0.010	0.050	ug/l	105	105	77-118	0	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	113	112	80-123	1	30
Anthracene	N.D.	0.010	0.050	ug/l	111	109	78-123	1	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	100	98	73-127	2	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	102	102	72-120	0	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	98	97	79-136	0	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	102	98	64-130	3	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	107	106	73-131	1	30
Chrysene	N.D.	0.010	0.050	ug/l	102	102	76-125	0	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	96	93	58-131	3	30
Fluoranthene	N.D.	0.010	0.050	ug/l	110	110	79-124	1	30
Fluorene	N.D.	0.010	0.050	ug/l	102	101	74-115	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	95	91	62-130	5	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	114	111	80-126	2	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	110	108	81-124	2	30
Naphthalene	N.D.	0.030	0.050	ug/l	103	101	75-120	1	30
Phenanthrene	N.D.	0.030	0.050	ug/l	100	99	75-120	1	30
Pyrene	N.D.	0.010	0.050	ug/l	98	97	71-130	0	30
Batch number: 132211848002	Sample number(s): 7155687-7155701,7155703-7155704								
Arsenic	N.D.	0.0068	0.0200	mg/l	101		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	98		90-112		
Calcium	0.139 J	0.0334	0.200	mg/l	101		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	100		90-110		
Nickel	N.D.	0.0015	0.0100	mg/l	104		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	97		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	112		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	104		90-110		

*- 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: 1410354
Reported: 08/16/13 at 12:20 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 132235713001	Sample number(s): 7155687-7155701,7155703-7155704								
Mercury	N.D.	0.00006	0.00020	mg/l	111		80-120		
		0							
Batch number: 132271848001	Sample number(s): 7155703								
Calcium	0.0915 J	0.0334	0.200	mg/l	105	107	90-110	1	20
Magnesium	N.D.	0.0167	0.100	mg/l	102	104	90-110	1	20
Batch number: 13226807902A	Sample number(s): 7155687-7155701,7155704								
HEM (oil & grease)	N.D.	1.4	5.0	mg/l	90	93	78-114	4	16

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: C132212AA	Sample number(s): 7155687-7155704 UNSPK: 7155687								
Acetone	89	105	57-163	17	30				
Allyl Chloride	90	95	67-139	6	30				
Benzene	107	109	87-126	2	30				
Bromobenzene	102	106	80-123	4	30				
Bromochloromethane	108	109	82-125	1	30				
Bromodichloromethane	109	110	82-133	1	30				
Bromoform	109	112	60-138	2	30				
Bromomethane	103	108	41-145	4	30				
2-Butanone	83	95	63-146	14	30				
n-Butylbenzene	106	108	83-131	2	30				
sec-Butylbenzene	107	110	84-128	3	30				
tert-Butylbenzene	105	110	84-135	4	30				
Carbon Tetrachloride	122	121	81-148	1	30				
Chlorobenzene	107	111	78-133	4	30				
Chloroethane	98	104	70-139	7	30				
Chloroform	111	114	86-136	2	30				
Chloromethane	91	99	55-152	8	30				
2-Chlorotoluene	104	107	81-120	3	30				
4-Chlorotoluene	104	108	82-119	4	30				
1,2-Dibromo-3-chloropropane	89	105	43-143	16	30				
Dibromochloromethane	105	109	79-125	4	30				
1,2-Dibromoethane	104	109	84-127	5	30				
Dibromomethane	107	108	83-126	1	30				
1,2-Dichlorobenzene	109	111	83-117	2	30				
1,3-Dichlorobenzene	106	110	81-118	4	30				
1,4-Dichlorobenzene	106	108	79-120	2	30				
Dichlorodifluoromethane	94	92	28-136	2	30				
1,1-Dichloroethane	106	110	88-136	3	30				
1,2-Dichloroethane	114	114	82-135	0	30				
1,1-Dichloroethene	112	114	83-150	2	30				
cis-1,2-Dichloroethene	108	112	82-129	3	30				
trans-1,2-Dichloroethene	112	114	88-127	2	30				
Dichlorofluoromethane	105	107	59-176	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 Summary

Client Name: ExxonMobil Group Number: 1410354
Reported: 08/16/13 at 12:20 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichloropropane	106	110	91-126	4	30				
1,3-Dichloropropane	101	104	80-127	4	30				
2,2-Dichloropropane	112	117	80-134	4	30				
1,1-Dichloropropene	114	117	86-139	2	30				
cis-1,3-Dichloropropene	101	107	74-132	5	30				
trans-1,3-Dichloropropene	100	105	71-128	6	30				
Ethyl ether	99	102	67-127	4	30				
Ethylbenzene	106	109	80-140	3	30				
Freon 113	116	111	87-158	4	30				
Hexachlorobutadiene	109	109	65-128	1	30				
Isopropylbenzene	109	113	81-133	3	30				
p-Isopropyltoluene	105	108	84-124	2	30				
Methyl Tertiary Butyl Ether	101	108	82-132	6	30				
4-Methyl-2-Pentanone	103	108	69-149	5	30				
Methylene Chloride	110	113	84-122	2	30				
n-Propylbenzene	104	107	79-131	3	30				
Styrene	109	111	63-151	2	30				
1,1,1,2-Tetrachloroethane	108	111	87-126	3	30				
1,1,2,2-Tetrachloroethane	101	107	75-131	5	30				
Tetrachloroethene	112	113	75-129	1	30				
Tetrahydrofuran	81	96	56-154	17	30				
Toluene	107	111	83-127	3	30				
1,2,3-Trichlorobenzene	108	113	73-125	5	30				
1,2,4-Trichlorobenzene	109	112	77-120	3	30				
1,1,1-Trichloroethane	115	118	85-140	2	30				
1,1,2-Trichloroethane	105	109	85-129	4	30				
Trichloroethene	115	118	85-131	3	30				
Trichlorofluoromethane	112	111	67-161	1	30				
1,2,3-Trichloropropane	105	110	76-120	4	30				
1,2,4-Trimethylbenzene	105	109	87-126	4	30				
1,3,5-Trimethylbenzene	106	110	89-129	4	30				
Vinyl Chloride	100	107	65-151	7	30				
Xylene (Total)	107	110	81-137	3	30				
Batch number: 132211848002	Sample number(s): 7155687-7155701,7155703-7155704 UNSPK: 7155693 BKG: 7155693								
Arsenic	103	103	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	102	101	78-118	0	20	0.0254	0.0251	1	20
Cadmium	97	97	83-116	0	20	N.D.	N.D.	0 (1)	20
Calcium	99	101	81-118	1	20	5.58	5.58	0	20
Chromium	101	102	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	99	99	75-125	0	20	N.D.	N.D.	0 (1)	20
Magnesium	98	100	75-125	1	20	2.58	2.57	0	20
Nickel	104	103	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	97	97	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	111	111	75-125	0	20	N.D.	N.D.	0 (1)	20
Vanadium	105	105	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 132235713001	Sample number(s): 7155687-7155701,7155703-7155704 UNSPK: 7155699 BKG: 7155699								
Mercury	78*	98	80-120	20	20	0.00013 J	0.00011 J	16 (1)	20
Batch number: 13226807902A	Sample number(s): 7155687-7155701,7155704 UNSPK: 7155687								
HEM (oil & grease)	4*		78-114						

*- 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 Summary

Client Name: ExxonMobil Group Number: 1410354
Reported: 08/16/13 at 12:20 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

Surrogate Quality Control

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

Analysis Name: BTEX 25-ml purge
Batch number: C132212AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7155687	107	105	96	97
7155688	104	104	97	98
7155689	104	103	97	97
7155690	105	105	98	97
7155691	107	104	97	98
7155692	105	103	97	97
7155693	106	105	97	97
7155694	106	104	97	97
7155695	106	104	97	97
7155696	107	104	98	98
7155697	106	103	97	96
7155698	106	105	98	97
7155699	106	103	98	98
7155700	106	103	97	97
7155701	106	105	98	97
7155702	105	106	97	97
7155703	106	106	97	98
7155704	107	105	97	97
Blank	106	103	98	98
LCS	104	107	99	101
MS	104	104	98	102
MSD	103	102	99	101
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13224WAB026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7155687	99	43*	113
7155688	95	37*	108
7155689	100	47*	108
7155690	99	47*	108
7155691	97	57*	107
7155692	99	61*	109
7155693	93	47*	108
7155694	81	49*	100
7155695	95	45*	109

*- Outside of specification
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Quality Control Summary

Client Name: ExxonMobil Group Number: 1410354
Reported: 08/16/13 at 12:20 PM

Surrogate Quality Control

7155696	100	50*	113
7155697	98	55*	108
7155698	96	56*	106
7155699	100	58*	109
7155700	94	86	108
7155701	98	74	107
7155703	103	101	111
7155704	93	62	109
Blank	96	98	106
LCS	103	109	115
LCSD	103	107	114
Limits:	44-137	62-141	51-136

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only Group # 1410354 Sample # 715568 7-704

Instructions on reverse side correspond with circled numbers.

1 of 2

SCR#:

1 Client Information

Facility #/SID: MAYFLOWER PIPELINE INCIDENT

Site Address: MAYFLOWER, AR

ExxonMobil PM: SCOTT BUSHROE | Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: STEVE BARRICK | Consultant Phone #: 919 202 6799

Sampler: J. WALDRON / M. LONG

4 Matrix: Soil ☐ Sediment ☐ Water ☐ Ground ☑ Surface ☐ Potable ☐ NPDES ☐ Oil ☐ Air ☐

3 Grab / Composite

2 Sample Identification | Collected Date | Time | **Total # of Containers** | **5 Analyses Requested** (Preservation Code: H / N / H)

Sample Identification	Date	Time	Grab	Composite	Matrix	Total # of Containers	VOC's 8260 B (H)	PAH's 8270 SIM (H)	RCRA Metals + Ni, V, Ca, Mg Hardness (N)	DISS. metals (H)	HEM OIL & GREASE (H)
WS-014 (1.5-2.0) 080813	8/8/13	0810	X		Water	9	X	X	X	X	X
WS-014 (5.5-6.0) 080813	8/8/13	0820	X		Water	9	X	X	X	X	X
WS-012 (1.5-2.0) 080813	8/8/13	0830	X		Water	9	X	X	X	X	X
WS-012 (5.0-5.5) 080813	8/8/13	0840	X		Water	9	X	X	X	X	X
WS-010 (1.5-2.0) 080813	8/8/13	0850	X		Water	9	X	X	X	X	X
WS-010 (3.5-4.0) 080813	8/8/13	0900	X		Water	9	X	X	X	X	X
WS-006 (0.5-1.0) 080813	8/8/13	0910	X		Water	9	X	X	X	X	X
WS-005 (Surface) 080813	8/8/13	0940	X		Water	9	X	X	X	X	X
WS-011 (1.5-2.0) 080813	8/8/13	1020	X		Water	9	X	X	X	X	X
WS-011 (5.0-5.5) 080813	8/8/13	1030	X		Water	9	X	X	X	X	X
WS-003 (Surface) 080813	8/8/13	1010	X		Water	9	X	X	X	X	X
WS-002 (Surface) 080813	8/8/13	1110	X		Water	9	X	X	X	X	X

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

6 Remarks: Lab to filter and preserve Diss. metals upon receipt.

7 Turnaround Time Requested (TAT) (please circle)

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

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

EDD (circle if required): Locus EIM (default); Other

Relinquished by	Date	Time	Received by	Date	Time
	8/8/13	1530			
Relinquished by Commercial Carrier: UPS ✓ FedEx ___ Other ___				8/9/13	1000

Temperature Upon Receipt 0.4 - 4.5 °C

Custody Seals Intact? Yes / No

9

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

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

7053 0713

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only
Acct. # 14739 Group # 1410354 Sample # 7155687-704
Instructions on reverse side correspond with circled numbers.

2 of 2

1 Client Information

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

4 Matrix

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

5 Analyses Requested

SCR#:

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

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	Total # of Containers	H: VOC's 8260B	H: PAH's 8270 SIM	N: RCRA Metals + V, Ni, Ca, Mg (Hardness)	N: Diss. Metals	H: HEM Oil & Grease
WS-018 (surface) 080813	8/8/13	1000	X		9	X	X	X	X	X
WS-007 (0.5-1.0) 080813	8/8/13	1140	X		9	X	X	X	X	X
WS-001 (0.5-1.0) 080813	8/8/13	1150	X		9	X	X	X	X	X
WS-TB-119-080813	8/8/13	—	X		2	X				
WS-EB-24-080813	8/8/13	1400	X		7	X	X	X	X	
DUP-WS-68-080813	8/8/13	—	X		9	X	X	X	X	X

7 Turnaround Time Requested (TAT) (please circle)

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

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

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

Relinquished by	Date	Time	Received by	Date	Time
	8/8/13	15:30			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS ✓ FedEx ____ Other ____			Received by	8/9/13	1000

Temperature Upon Receipt 2.4+4.5 °C

Custody Seals Intact? Yes / No

9

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Environmental Sample Administration Receipt Documentation Log

1410354

Client/Project: Mayflower

Date of Receipt: 8/9/13

Time of Receipt: 1000

Source Code: 60-1

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

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

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.1	TB	WI	Y	B	
2	↓	4.5	↓	↓	↓	↓	
3	↓	2.0	↓	↓	↓	↓	
4	↓	1.2	↓	↓	↓	↓	
5	↓	0.7	↓	↓	↓	↓	
6	↓	0.4	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [signature] 3647 **Date/Time:** 8/9/13 1028

Issued by Dept. 6042 Management

2174.06

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Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

ppb parts per billion

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

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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

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