

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

April 24, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 04/23/2013

Group Number: 1384744

SDG: PEG56

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LLI)

WS-003(SURFACE)042213 Grab Surface Water	7031131
WS-019(SURFACE)042213 Grab Surface Water	7031132
WS-002(SURFACE)042213 Grab Surface Water	7031133
WS-002(SURFACE)MS042213 Grab Surface Water	7031134
WS-002(SURFACE)MSD042213 Grab Surface Water	7031135
WS-002(SURFACE)DUP042213 Grab Surface Water	7031136
WS-BKG-001(SURFACE)042213 Grab Surface Water	7031137
WS-005(SURFACE)042213 Grab Surface Water	7031138
WS-008(SURFACE)042213 Grab Surface Water	7031139
WS-001(SURFACE)042213 Grab Surface Water	7031140
WS-001(0.5-1.0)042213 Grab Surface Water	7031141
WS-004(SURFACE)042213 Grab Surface Water	7031142
WS-004(0.5-1.0)042213 Grab Surface Water	7031143
WS-007(SURFACE)042213 Grab Surface Water	7031144
WS-007(0.5-1.0)042213 Grab Surface Water	7031145
WS-006(SURFACE)042213 Grab Surface Water	7031146
WS-006(0.5-1.0)042213 Grab Surface Water	7031147
WS-DUP-11-042213 Grab Surface Water	7031148
WS-TB18-042213 Water	7031149

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

ELECTRONIC ARCADIS
COPY TO
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Attn: Stephen Barrick

Attn: Lyndi Mott

ELECTRONIC ExxonMobil
COPY TO
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COPY TO
ELECTRONIC ARCADIS
COPY TO

Attn: Scott Bushroe

Attn: Michael J. Firth

Attn: Emily Leamer

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1384744

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

Analysis Specific Comments:**SW-846 8260B 25mL purge, GC/MS Volatiles**

Sample #s: 7031142

Reporting limits were raised due to interference from the sample matrix.

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13113WAA026 (Sample number(s): 7031131-7031135, 7031137-7031148 UNSPK: 7031133)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7031132, 7031141, 7031142, 7031143, 7031144, 7031145

Sample #s: 7031132, 7031141, 7031142, 7031143, 7031144, 7031145

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.

EPA 1664A, wet Chemistry

Batch #: 13113807901A (Sample number(s): 7031131-7031135, 7031137-7031148 UNSPK: 7031133)

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

Sample Description: WS-003 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031131
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 09:10 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22003 SDG#: PEG56-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	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) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031131
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 09:10 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22003 SDG#: PEG56-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	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
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO ₃	471-34-1	14.0	0.064	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	0.0220	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.05	0.0640	0.200	1

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

Sample Description: WS-003 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031131
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 09:10 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22003 SDG#: PEG56-01

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	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.56	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0018 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	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	I131131AA	04/23/2013 15:38	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 15:38	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 05:30	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 19:00	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 19:00	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 19:00	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 19:00	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 19:00	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/23/2013 19:00	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 19:00	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 06:30	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 19:00	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 19:00	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 19:00	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 06:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

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

Sample Description: WS-019 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031132
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 09:50 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22019 SDG#: PEG56-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	5.8	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-019 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031132
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 09:50 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22019 SDG#: PEG56-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	58.5	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0153 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.360	0.00033	0.0050	1

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

Sample Description: WS-019 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031132
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 09:50 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22019 SDG#: PEG56-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	0.00045 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	14.6	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0230	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0260	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.36	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0204	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0342	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	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	I131131AA	04/23/2013 15:59	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 15:59	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 05:57	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 19:04	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 19:04	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 19:04	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 19:04	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 19:04	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/24/2013 06:41	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 19:04	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 06:41	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 19:04	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 19:04	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 19:04	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 06:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1

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

Sample Description: WS-019 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031132
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 09:50 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22019 SDG#: PEG56-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

Sample Description: WS-002 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031133
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 10:45 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22002 SDG#: PEG56-03BKG

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

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

Sample Description: WS-002 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031133
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 10:45 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22002 SDG#: PEG56-03BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	13.8	0.064	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	0.0190	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.05	0.0640	0.200	1

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

Sample Description: WS-002 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031133
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 10:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22002 SDG#: PEG56-03BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.51	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	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	I131131AA	04/23/2013 13:32	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 13:32	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 03:14	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 18:36	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 18:36	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 18:36	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 18:36	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 18:36	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/23/2013 18:36	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 18:36	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 06:07	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 18:36	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 18:36	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 18:36	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 06:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

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

Sample Description: WS-002 (SURFACE) MS042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031134
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 10:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22002 SDG#: PEG56-03MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	41	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.7	0.1	0.5	1
02898	Benzene	71-43-2	4.7	0.1	0.5	1
02898	Bromobenzene	108-86-1	4.4	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.7	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.1	0.1	0.5	1
02898	Bromoform	75-25-2	5.0	0.1	0.5	1
02898	Bromomethane	74-83-9	4.7	0.1	0.5	1
02898	2-Butanone	78-93-3	34	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	4.9	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	4.7	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	4.3	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.2	0.1	0.5	1
02898	Chlorobenzene	108-90-7	4.7	0.1	0.5	1
02898	Chloroethane	75-00-3	5.3	0.1	0.5	1
02898	Chloroform	67-66-3	5.0	0.1	0.5	1
02898	Chloromethane	74-87-3	4.0	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	4.5	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	4.5	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.5	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.0	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.6	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.9	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	4.7	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	4.6	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	4.6	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.5	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	4.8	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.3	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	4.7	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	4.6	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	4.7	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.3	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	4.9	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.8	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	4.7	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	4.8	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.5	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.5	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.3	0.1	0.5	1
02898	Ethylbenzene	100-41-4	4.8	0.1	0.5	1
02898	Freon 113	76-13-1	4.9	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.4	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	4.8	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	4.6	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.3	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	26	1.0	5.0	1
02898	Methylene Chloride	75-09-2	4.7	0.2	0.5	1

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

Sample Description: WS-002 (SURFACE) MS042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031134
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 10:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22002 SDG#: PEG56-03MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	4.8	0.1	0.5	1
02898	Styrene	100-42-5	4.6	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	4.9	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.1	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	4.5	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	21	2.0	5.0	1
02898	Toluene	108-88-3	4.7	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.4	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.2	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.0	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	4.9	0.1	0.5	1
02898	Trichloroethene	79-01-6	4.8	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.1	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.1	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	4.7	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	4.6	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.3	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	14	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.0	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.051	1
08357	Anthracene	120-12-7	0.90	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	1.1	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.95	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	1.1	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	1.0	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	1.1	0.010	0.051	1
08357	Chrysene	218-01-9	1.1	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	1.0	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.1	0.010	0.051	1
08357	Fluorene	86-73-7	1.1	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	1.0	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.2	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.2	0.010	0.051	1
08357	Naphthalene	91-20-3	1.1	0.030	0.051	1
08357	Phenanthrene	85-01-8	1.0	0.030	0.051	1
08357	Pyrene	129-00-0	1.2	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	31.4	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.151	0.0068	0.0200	1
07046	Barium	7440-39-3	2.02	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0498	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.97	0.0640	0.200	1

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

Sample Description: WS-002 (SURFACE)MS042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031134
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 10:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22002 SDG#: PEG56-03MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.205	0.0011	0.0150	1
07055	Lead	7439-92-1	0.153	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.41	0.0606	0.100	1
07061	Nickel	7440-02-0	0.516	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.147	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0481	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.508	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00092	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	33.1	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131131AA	04/23/2013 13:54	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 13:54	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 03:41	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 18:48	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 18:48	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 18:48	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 18:48	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 18:48	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/24/2013 06:18	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 18:48	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 06:18	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 18:48	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 18:48	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 18:48	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 06:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

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

Sample Description: WS-002 (SURFACE) MSD042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031135
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 10:45 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22002 SDG#: PEG56-03MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	41	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.6	0.1	0.5	1
02898	Benzene	71-43-2	4.8	0.1	0.5	1
02898	Bromobenzene	108-86-1	4.7	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.5	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.1	0.1	0.5	1
02898	Bromoform	75-25-2	4.9	0.1	0.5	1
02898	Bromomethane	74-83-9	4.7	0.1	0.5	1
02898	2-Butanone	78-93-3	35	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.1	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	4.9	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	4.6	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.2	0.1	0.5	1
02898	Chlorobenzene	108-90-7	4.9	0.1	0.5	1
02898	Chloroethane	75-00-3	5.4	0.1	0.5	1
02898	Chloroform	67-66-3	5.0	0.1	0.5	1
02898	Chloromethane	74-87-3	4.3	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	4.7	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	4.8	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.4	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.1	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.7	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.0	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	4.9	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	4.9	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	4.8	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.7	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	4.9	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.2	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	4.9	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	4.7	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	4.8	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.4	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.0	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.9	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	4.8	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	4.9	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.7	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.7	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.3	0.1	0.5	1
02898	Ethylbenzene	100-41-4	4.9	0.1	0.5	1
02898	Freon 113	76-13-1	5.0	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.6	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	4.9	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	4.9	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.4	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	26	1.0	5.0	1
02898	Methylene Chloride	75-09-2	4.8	0.2	0.5	1

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

Sample Description: WS-002 (SURFACE) MSD042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031135
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 10:45 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22002 SDG#: PEG56-03MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.0	0.1	0.5	1
02898	Styrene	100-42-5	4.7	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.0	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.3	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	4.6	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	21	2.0	5.0	1
02898	Toluene	108-88-3	4.8	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.5	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.4	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.1	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.0	0.1	0.5	1
02898	Trichloroethene	79-01-6	4.9	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.1	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.2	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	4.9	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	4.9	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.5	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	14	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.99	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.051	1
08357	Anthracene	120-12-7	0.87	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	1.1	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.83	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.94	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.84	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.96	0.010	0.051	1
08357	Chrysene	218-01-9	0.97	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.81	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.0	0.010	0.051	1
08357	Fluorene	86-73-7	1.0	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.85	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.010	0.051	1
08357	Naphthalene	91-20-3	1.1	0.030	0.051	1
08357	Phenanthrene	85-01-8	1.0	0.030	0.051	1
08357	Pyrene	129-00-0	1.1	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	30.2	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.149	0.0068	0.0200	1
07046	Barium	7440-39-3	1.99	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0491	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.68	0.0640	0.200	1

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

Sample Description: WS-002 (SURFACE) MSD042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031135
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 10:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22002 SDG#: PEG56-03MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.198	0.0011	0.0150	1
07055	Lead	7439-92-1	0.154	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.28	0.0606	0.100	1
07061	Nickel	7440-02-0	0.510	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.141	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0460	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.490	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00088	0.000070	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	28.5	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	I131131AA	04/23/2013 14:14	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 14:14	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 04:08	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 18:52	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 18:52	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 18:52	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 18:52	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 18:52	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/24/2013 06:22	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 18:52	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 06:22	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 18:52	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 18:52	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 18:52	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 06:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

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

Sample Description: WS-002 (SURFACE) DUP042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031136
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 10:45 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22002 SDG#: PEG56-03DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	13.7	0.064	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	0.0191	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.02	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.50	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	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
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 18:44	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 18:44	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 18:44	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 18:44	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 18:44	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/23/2013 18:44	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 18:44	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 06:14	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 18:44	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 18:44	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 18:44	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 06:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1

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

Sample Description: WS-BKG-001(SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031137
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 11:30 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22BKG SDG#: PEG56-04

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

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

Sample Description: WS-BKG-001(SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031137
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 11:30 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22BKG SDG#: PEG56-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	25.5	0.064	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	0.0378	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.98	0.0640	0.200	1

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

Sample Description: WS-BKG-001(SURFACE)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031137
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 11:30 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22BKG SDG#: PEG56-04

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	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.97	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	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	I131131AA	04/23/2013 16:20	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 16:20	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 06:24	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 19:16	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 19:16	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 19:16	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 19:16	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 19:16	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/23/2013 19:16	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 19:16	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 06:45	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 19:16	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 19:16	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 19:16	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 06:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

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

Sample Description: WS-005(SURFACE)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031138
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 12:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22005 SDG#: PEG56-05

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

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

Sample Description: WS-005(SURFACE)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031138
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 12:00 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22005 SDG#: PEG56-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.054	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.054	1
08357	Anthracene	120-12-7	N.D.	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.054	1
08357	Chrysene	218-01-9	N.D.	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.054	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.054	1
08357	Fluorene	86-73-7	N.D.	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.054	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.054	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.054	1
08357	Pyrene	129-00-0	N.D.	0.011	0.054	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.5	0.064	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	0.0150	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.24	0.0640	0.200	1

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

Sample Description: WS-005 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031138
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 12:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22005 SDG#: PEG56-05

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	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.56	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	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	I131131AA	04/23/2013 16:42	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 16:42	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 06:51	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 19:20	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 19:20	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 19:20	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 19:20	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 19:20	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/23/2013 19:20	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 19:20	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 06:48	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 19:20	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 19:20	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 19:20	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 06:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

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

Sample Description: WS-008 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031139
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 14:00 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22008 SDG#: PEG56-06

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	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.2 J	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	0.3 J	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	1.3	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-008 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031139
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 14:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22008 SDG#: PEG56-06

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	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.3 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	0.2 J	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	0.021 J	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	0.015 J	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	0.011 J	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	0.013 J	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	0.031 J	0.010	0.050	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	26.0	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0076 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0682	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.91	0.0640	0.200	1

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

Sample Description: WS-008 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031139
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 14:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22008 SDG#: PEG56-06

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	
07051	Chromium	7440-47-3	0.0120 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.72	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0082 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0108	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	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	I131131AA	04/23/2013 17:03	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 17:03	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 07:19	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 19:24	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 19:24	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 19:24	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 19:24	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 19:24	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/23/2013 19:24	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 19:24	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 06:52	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 19:24	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 19:24	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 19:24	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 07:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

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

Sample Description: WS-001(SURFACE)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031140
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 14:40 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22011 SDG#: PEG56-07

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

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

Sample Description: WS-001(SURFACE)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031140
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 14:40 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22011 SDG#: PEG56-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	0.020 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.011 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	0.017 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	0.015 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	0.011 J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	0.019 J	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	17.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0076 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0470	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.82	0.0640	0.200	1

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

Sample Description: WS-001(SURFACE)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031140
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 14:40 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22011 SDG#: PEG56-07

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	
07051	Chromium	7440-47-3	0.0048 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.97	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0038 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0071	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	1.4 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	I131131AA	04/23/2013 17:24	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 17:24	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 07:46	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 19:28	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 19:28	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 19:28	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 19:28	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 19:28	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/24/2013 06:56	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 19:28	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 06:56	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 19:28	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 19:28	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 19:28	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 07:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

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

Sample Description: WS-001(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031141
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 14:45 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22012 SDG#: PEG56-08

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

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

Sample Description: WS-001(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031141
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 14:45 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22012 SDG#: PEG56-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	19.6	0.064	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	0.0716	0.00033	0.0050	1

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

Sample Description: WS-001(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031141
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 14:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22012 SDG#: PEG56-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.29	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0045 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0058 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.15	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0059 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0082	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	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	I131131AA	04/23/2013 17:45	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 17:45	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 08:13	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 19:32	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 19:32	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 19:32	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 19:32	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 19:32	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/24/2013 07:00	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 19:32	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 07:00	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 19:32	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 19:32	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 19:32	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 07:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031141
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 14:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22012 SDG#: PEG56-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

Sample Description: WS-004(SURFACE)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031142
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 15:15 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22041 SDG#: PEG56-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	6.0	10	2
02898	Allyl Chloride	107-05-1	N.D.	0.2	1.0	2
02898	Benzene	71-43-2	N.D.	0.2	1.0	2
02898	Bromobenzene	108-86-1	N.D.	0.2	1.0	2
02898	Bromochloromethane	74-97-5	N.D.	0.2	1.0	2
02898	Bromodichloromethane	75-27-4	N.D.	0.2	1.0	2
02898	Bromoform	75-25-2	N.D.	0.2	1.0	2
02898	Bromomethane	74-83-9	N.D.	0.2	1.0	2
02898	2-Butanone	78-93-3	N.D.	2.0	10	2
02898	n-Butylbenzene	104-51-8	N.D.	0.2	1.0	2
02898	sec-Butylbenzene	135-98-8	N.D.	0.2	1.0	2
02898	tert-Butylbenzene	98-06-6	N.D.	0.2	1.0	2
02898	Carbon Tetrachloride	56-23-5	N.D.	0.2	1.0	2
02898	Chlorobenzene	108-90-7	N.D.	0.2	1.0	2
02898	Chloroethane	75-00-3	N.D.	0.2	1.0	2
02898	Chloroform	67-66-3	N.D.	0.2	1.0	2
02898	Chloromethane	74-87-3	N.D.	0.4	1.0	2
02898	2-Chlorotoluene	95-49-8	N.D.	0.2	1.0	2
02898	4-Chlorotoluene	106-43-4	N.D.	0.2	1.0	2
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1.0	2
02898	Dibromochloromethane	124-48-1	N.D.	0.2	1.0	2
02898	1,2-Dibromoethane	106-93-4	N.D.	0.2	1.0	2
02898	Dibromomethane	74-95-3	N.D.	0.2	1.0	2
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1.0	2
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1.0	2
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1.0	2
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	N.D.	0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	N.D.	0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	N.D.	0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.2	1.0	2
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.2	1.0	2
02898	Dichlorofluoromethane	75-43-4	N.D.	0.4	1.0	2
02898	1,2-Dichloropropane	78-87-5	N.D.	0.2	1.0	2
02898	1,3-Dichloropropane	142-28-9	N.D.	0.2	1.0	2
02898	2,2-Dichloropropane	594-20-7	N.D.	0.2	1.0	2
02898	1,1-Dichloropropene	563-58-6	N.D.	0.2	1.0	2
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1.0	2
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.2	1.0	2
02898	Ethyl ether	60-29-7	N.D.	0.2	1.0	2
02898	Ethylbenzene	100-41-4	N.D.	0.2	1.0	2
02898	Freon 113	76-13-1	N.D.	0.4	1.0	2
02898	Hexachlorobutadiene	87-68-3	N.D.	0.2	1.0	2
02898	Isopropylbenzene	98-82-8	N.D.	0.2	1.0	2
02898	p-Isopropyltoluene	99-87-6	N.D.	0.2	1.0	2
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1.0	2
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	2.0	10	2
02898	Methylene Chloride	75-09-2	N.D.	0.4	1.0	2

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

Sample Description: WS-004(SURFACE)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031142
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 15:15 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22041 SDG#: PEG56-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.2	1.0	2
02898	Styrene	100-42-5	N.D.	0.2	1.0	2
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.2	1.0	2
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1.0	2
02898	Tetrachloroethene	127-18-4	N.D.	0.2	1.0	2
02898	Tetrahydrofuran	109-99-9	N.D.	4.0	10	2
02898	Toluene	108-88-3	N.D.	0.2	1.0	2
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1.0	2
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1.0	2
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1.0	2
02898	Trichloroethene	79-01-6	N.D.	0.2	1.0	2
02898	Trichlorofluoromethane	75-69-4	N.D.	0.2	1.0	2
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.6	2.0	2
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.2	1.0	2
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.2	1.0	2
02898	Vinyl Chloride	75-01-4	N.D.	0.2	1.0	2
02898	Xylene (Total)	1330-20-7	N.D.	0.2	1.0	2

Reporting limits were raised due to interference from the sample matrix.

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	0.013 J	0.010	0.051	1

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

Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	35.0	0.064	0.20	1
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0139 J	0.0068	0.0200	1

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

Sample Description: WS-004 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031142
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 15:15 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22041 SDG#: PEG56-09

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	
07046	Barium	7440-39-3	0.228	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.71	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0279	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0293	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.43	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0206	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0415	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	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	I131131AA	04/23/2013 14:35	Kerri E Legerlotz	2
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 14:35	Kerri E Legerlotz	2
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 08:40	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 19:36	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 19:36	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 19:36	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 19:36	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 19:36	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/24/2013 07:04	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 19:36	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 07:04	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 19:36	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 19:36	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 19:36	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 07:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1

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

Sample Description: WS-004 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031142
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 15:15 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22041 SDG#: PEG56-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

Sample Description: WS-004(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031143
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 15:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22042 SDG#: PEG56-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	3.2 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-004(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031143
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 15:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22042 SDG#: PEG56-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	0.013 J	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	31.0	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0136 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.187	0.00033	0.0050	1

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

Sample Description: WS-004(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031143
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 15:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22042 SDG#: PEG56-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.11	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0192	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0165	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.83	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0145	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0308	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	2.6 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	I131131AA	04/23/2013 18:05	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 18:05	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 09:07	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 19:40	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 19:40	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 19:40	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 19:40	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 19:40	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/24/2013 07:07	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 19:40	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 07:07	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 19:40	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 19:40	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 19:40	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 07:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031143
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 15:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22042 SDG#: PEG56-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

Sample Description: WS-007 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031144
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 15:55 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22071 SDG#: PEG56-11

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

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

Sample Description: WS-007 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031144
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 15:55 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22071 SDG#: PEG56-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	0.015 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	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	0.017 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	0.075	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	0.055	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	26.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0123 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.163	0.00033	0.0050	1

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

Sample Description: WS-007 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031144
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 15:55 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22071 SDG#: PEG56-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.59	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0111 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0135 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.96	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0101	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0197	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	2.1 J	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131131AA	04/23/2013 18:27	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 18:27	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 09:34	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 19:44	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 19:44	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 19:44	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 19:44	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 19:44	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/24/2013 07:11	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 19:44	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 07:11	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 19:44	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 19:44	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 19:44	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 07:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1

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

Sample Description: WS-007 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031144
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 15:55 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22071 SDG#: PEG56-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

Sample Description: WS-007(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031145
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 16:00 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22072 SDG#: PEG56-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	3.8 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-007(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031145
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 16:00 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22072 SDG#: PEG56-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	0.021 J	0.010	0.050	1
08357	Anthracene	120-12-7	0.052	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	0.11	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	0.069	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	0.29	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	0.069	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	0.10	0.010	0.050	1
08357	Chrysene	218-01-9	0.29	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	0.012 J	0.010	0.050	1
08357	Fluoranthene	206-44-0	0.70	0.010	0.050	1
08357	Fluorene	86-73-7	0.012 J	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.092	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	0.018 J	0.010	0.050	1
08357	Naphthalene	91-20-3	0.062	0.030	0.050	1
08357	Phenanthrene	85-01-8	0.12	0.030	0.050	1
08357	Pyrene	129-00-0	0.63	0.010	0.050	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO ₃	471-34-1	34.5	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0176 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.226	0.00033	0.0050	1

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

Sample Description: WS-007(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031145
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 16:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22072 SDG#: PEG56-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.26	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0286	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0245	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.59	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0218	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0429	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	2.4 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	I131131AA	04/23/2013 18:48	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 18:48	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 10:01	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 19:48	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 19:48	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 19:48	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 19:48	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 19:48	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/24/2013 07:15	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 19:48	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 07:15	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 19:48	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 19:48	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 19:48	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 07:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031145
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 16:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22072 SDG#: PEG56-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

Sample Description: WS-006 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031146
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 16:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22061 SDG#: PEG56-13

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

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

Sample Description: WS-006 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031146
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 16:20 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22061 SDG#: PEG56-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	14.7	0.064	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	0.0211	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.23	0.0640	0.200	1

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

Sample Description: WS-006 (SURFACE) 042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031146
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 16:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22061 SDG#: PEG56-13

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	
07051	Chromium	7440-47-3	0.0015 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.60	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0020 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0030 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	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	I131131AA	04/23/2013 19:08	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 19:08	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 10:28	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 19:52	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 19:52	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 19:52	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 19:52	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 19:52	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/23/2013 19:52	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 19:52	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 07:26	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 19:52	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 19:52	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 19:52	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 07:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

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

Sample Description: WS-006(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031147
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 16:25 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22062 SDG#: PEG56-14

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

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

Sample Description: WS-006(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031147
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 16:25 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22062 SDG#: PEG56-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	15.0	0.064	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	0.0311	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.31	0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031147
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 16:25 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22062 SDG#: PEG56-14

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	
07051	Chromium	7440-47-3	0.0020 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.63	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0022 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0031 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	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	I131131AA	04/23/2013 19:29	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 19:29	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 10:56	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 20:04	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 20:04	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 20:04	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 20:04	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 20:04	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/23/2013 20:04	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 20:04	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 07:30	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 20:04	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 20:04	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 20:04	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 07:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

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

Sample Description: WS-DUP-11-042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031148
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22D11 SDG#: PEG56-15FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.2 J	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	0.3 J	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	1.3	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-DUP-11-042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031148
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 by JO

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22D11 SDG#: PEG56-15FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.2 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.2 J	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	0.017 J	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	0.015 J	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	0.013 J	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	0.029 J	0.010	0.050	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	25.2	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0634	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.71	0.0640	0.200	1

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

Sample Description: WS-DUP-11-042213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031148
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/23/2013 09:25

PO Box 4416

Reported: 04/24/2013 14:27

Houston TX 77210-4416

22D11 SDG#: PEG56-15FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0116 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.65	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0085 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0099	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	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	I131131AA	04/23/2013 19:51	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 19:51	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13113WAA026	04/24/2013 11:23	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13113WAA026	04/23/2013 15:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131146256001	04/24/2013 05:21	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131131848001	04/23/2013 20:08	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131131848001	04/23/2013 20:08	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131131848001	04/23/2013 20:08	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131131848001	04/23/2013 20:08	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131131848001	04/23/2013 20:08	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131131848001	04/23/2013 20:08	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131131848001	04/23/2013 20:08	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131131848001	04/24/2013 07:34	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131131848001	04/23/2013 20:08	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131131848001	04/23/2013 20:08	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131131848001	04/23/2013 20:08	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131135713001	04/24/2013 07:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131131848001	04/23/2013 12:33	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131135713001	04/23/2013 15:20	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13113807901A	04/23/2013 10:00	Yolunder Y Bunch	1

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

Sample Description: WS-TB18-042213 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031149
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22T18 SDG#: PEG56-16TB*

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	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-TB18-042213 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7031149
LLI Group # 1384744
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/22/2013

ExxonMobil

Submitted: 04/23/2013 09:25

Mobil Pipeline Company

Reported: 04/24/2013 14:27

PO Box 4416

Houston TX 77210-4416

22T18 SDG#: PEG56-16TB*

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	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131131AA	04/23/2013 11:44	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131131AA	04/23/2013 11:44	Kerri E Legerlotz	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 04/24/13 at 02:27 PM

Group Number: 1384744

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

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: I131131AA	Sample number(s): 7031131-7031135, 7031137-7031149								
Acetone	N.D.	3.0	5.0	ug/l	101		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	88		61-130		
Benzene	N.D.	0.1	0.5	ug/l	93		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	87		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	89		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	97		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	95		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	80		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	90		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	95		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	92		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	86		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	100		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	92		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	91		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	98		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	75		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	88		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	89		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	89		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	97		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	90		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	95		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	93		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	92		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	92		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	67		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	95		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	103		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	92		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	90		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	92		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	112		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	96		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	93		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	92		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	93		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	88		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	87		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	87		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	93		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	93		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	87		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: 1384744

Reported: 04/24/13 at 02:27 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	92		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	92		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	85		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	94		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	94		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
Styrene	N.D.	0.1	0.5	ug/l	90		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	94		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	97		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	86		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	88		65-131		
Toluene	N.D.	0.1	0.5	ug/l	91		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	85		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	83		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	97		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	95		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	94		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	92		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	98		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	93		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	92		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	80		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	91		80-120		

Batch number: 13113WAA026

Sample number(s): 7031131-7031135, 7031137-7031148

Acenaphthene	N.D.	0.010	0.050	ug/l	100		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	107		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	100		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	109		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	106		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	108		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	106		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	114		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	106		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	97		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	102		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	103		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	105		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	110		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	110		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	102		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	99		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	113		71-116		

Batch number: 131131848001

Sample number(s): 7031131-7031148

Arsenic	N.D.	0.0068	0.0200	mg/l	108		90-113		
Barium	0.00040 J	0.00033	0.0050	mg/l	108		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	108		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	106		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	108		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	104		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	103		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	102		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	107		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	101		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	107		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: 1384744

Reported: 04/24/13 at 02:27 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 131135713001	Sample number(s): 7031131-7031148								
Mercury	N.D.	0.00007	0.00020	mg/l	93		80-120		
		0							
Batch number: 13113807901A	Sample number(s): 7031131-7031135, 7031137-7031148								
HEM (oil & grease)	N.D.	1.4	5.0	mg/l	91	82	78-114	10	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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: I131131AA	Sample number(s): 7031131-7031135, 7031137-7031149 UNSPK: 7031133								
Acetone	109	110	57-163	0	30				
Allyl Chloride	93	91	67-139	2	30				
Benzene	95	96	87-126	2	30				
Bromobenzene	88	93	80-123	6	30				
Bromochloromethane	93	89	82-125	4	30				
Bromodichloromethane	101	102	82-133	1	30				
Bromoform	99	99	60-138	1	30				
Bromomethane	94	95	41-145	1	30				
2-Butanone	89	94	63-146	5	30				
n-Butylbenzene	98	101	83-131	4	30				
sec-Butylbenzene	93	99	84-128	6	30				
tert-Butylbenzene	86	92	84-135	6	30				
Carbon Tetrachloride	103	105	81-148	1	30				
Chlorobenzene	94	97	78-133	3	30				
Chloroethane	107	108	70-139	1	30				
Chloroform	100	101	86-136	1	30				
Chloromethane	80	86	55-152	7	30				
2-Chlorotoluene	90	94	81-120	5	30				
4-Chlorotoluene	89	95	82-119	7	30				
1,2-Dibromo-3-chloropropane	90	89	43-143	1	30				
Dibromochloromethane	101	103	79-125	2	30				
1,2-Dibromoethane	93	95	84-127	2	30				
Dibromomethane	97	99	83-126	2	30				
1,2-Dichlorobenzene	94	99	83-117	5	30				
1,3-Dichlorobenzene	93	97	81-118	5	30				
1,4-Dichlorobenzene	92	96	79-120	5	30				
Dichlorodifluoromethane	70	74	28-136	5	30				
1,1-Dichloroethane	96	98	88-136	2	30				
1,2-Dichloroethane	105	104	82-135	1	30				
1,1-Dichloroethene	93	97	83-150	4	30				
cis-1,2-Dichloroethene	92	93	82-129	1	30				
trans-1,2-Dichloroethene	94	96	88-127	2	30				
Dichlorofluoromethane	127	128	59-176	1	30				
1,2-Dichloropropane	98	100	91-126	2	30				
1,3-Dichloropropane	96	98	80-127	2	30				
2,2-Dichloropropane	94	96	80-134	2	30				
1,1-Dichloropropene	96	98	86-139	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: 1384744

Reported: 04/24/13 at 02:27 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
cis-1,3-Dichloropropene	91	95	74-132	4	30				
trans-1,3-Dichloropropene	90	94	71-128	4	30				
Ethyl ether	87	86	67-127	1	30				
Ethylbenzene	97	99	80-140	2	30				
Freon 113	97	100	87-158	3	30				
Hexachlorobutadiene	88	93	65-128	6	30				
Isopropylbenzene	95	98	81-133	3	30				
p-Isopropyltoluene	93	98	84-124	5	30				
Methyl Tertiary Butyl Ether	86	88	82-132	2	30				
4-Methyl-2-Pentanone	102	104	69-149	1	30				
Methylene Chloride	94	96	84-122	2	30				
n-Propylbenzene	95	101	79-131	6	30				
Styrene	92	94	63-151	3	30				
1,1,1,2-Tetrachloroethane	97	99	87-126	2	30				
1,1,2,2-Tetrachloroethane	102	106	75-131	3	30				
Tetrachloroethene	89	91	75-129	2	30				
Tetrahydrofuran	83	84	56-154	1	30				
Toluene	94	96	83-127	2	30				
1,2,3-Trichlorobenzene	87	91	73-125	4	30				
1,2,4-Trichlorobenzene	85	89	77-120	5	30				
1,1,1-Trichloroethane	101	102	85-140	1	30				
1,1,2-Trichloroethane	98	100	85-129	1	30				
Trichloroethene	97	98	85-131	1	30				
Trichlorofluoromethane	102	102	67-161	0	30				
1,2,3-Trichloropropane	101	105	76-120	3	30				
1,2,4-Trimethylbenzene	94	98	87-126	4	30				
1,3,5-Trimethylbenzene	92	97	89-129	5	30				
Vinyl Chloride	85	91	65-151	6	30				
Xylene (Total)	94	96	81-137	2	30				

Batch number: 13113WAA026

Sample number(s): 7031131-7031135,7031137-7031148 UNSPK: 7031133

Acenaphthene	102	97	59-127	5	30
Acenaphthylene	109	105	33-146	4	30
Anthracene	89	85	69-119	4	30
Benzo(a)anthracene	112	104	67-124	7	30
Benzo(a)pyrene	94	81	64-123	15	30
Benzo(b)fluoranthene	107	93	61-133	15	30
Benzo(g,h,i)perylene	101	83	36-138	20	30
Benzo(k)fluoranthene	108	94	59-128	14	30
Chrysene	105	96	62-118	9	30
Dibenz(a,h)anthracene	99	80	32-141	21	30
Fluoranthene	104	100	65-123	5	30
Fluorene	107	103	69-124	4	30
Indeno(1,2,3-cd)pyrene	102	84	29-143	20	30
1-Methylnaphthalene	114	111	67-117	3	30
2-Methylnaphthalene	115	113	71-126	2	30
Naphthalene	111	107	58-131	4	30
Phenanthrene	102	98	67-117	5	30
Pyrene	118	112	59-125	5	30

Batch number: 131131848001

Sample number(s): 7031131-7031148 UNSPK: 7031133 BKG: 7031133

Arsenic	100	99	81-123	1	20	N.D.	N.D.	0 (1)	20
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*- 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: 1384744

Reported: 04/24/13 at 02:27 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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Barium	100	99	78-118	2	20	0.0190	0.0191	1 (1)	20
Cadmium	100	98	83-116	2	20	N.D.	N.D.	0 (1)	20
Calcium	98	91	81-118	4	20	3.05	3.02	1	20
Chromium	102	99	81-120	3	20	N.D.	N.D.	0 (1)	20
Lead	102	103	75-125	1	20	N.D.	N.D.	0 (1)	20
Magnesium	95	89	75-125	4	20	1.51	1.50	1	20
Nickel	103	102	86-115	1	20	N.D.	N.D.	0 (1)	20
Selenium	98	94	75-125	5	20	N.D.	N.D.	0 (1)	20
Silver	96	92	75-125	5	20	N.D.	N.D.	0 (1)	20
Vanadium	102	98	90-111	4	20	N.D.	N.D.	0 (1)	20

Batch number: 131135713001

Sample number(s): 7031131-7031148 UNSPK: 7031133 BKG: 7031133

Mercury

92 88 80-120 4 20 N.D. N.D. 0 (1) 20

Batch number: 13113807901A

Sample number(s): 7031131-7031135, 7031137-7031148 UNSPK: 7031133

HEM (oil & grease)

81 70* 78-114 15 29

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: NHDES VOCs 25ml purge

Batch number: I131131AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
----------------------	-----------------------	------------	----------------------

7031131	100	103	99	99
7031132	102	106	98	99
7031133	103	104	99	99
7031134	101	105	100	105
7031135	100	103	100	103
7031137	102	107	98	99
7031138	102	108	98	99
7031139	101	106	98	100
7031140	101	104	99	98
7031141	101	102	99	98
7031142	100	105	98	99
7031143	101	103	99	99
7031144	101	103	99	99
7031145	101	104	99	99
7031146	102	107	99	99
7031147	102	107	98	99
7031148	102	109	98	101
7031149	101	107	98	99
Blank	101	104	99	99
LCS	100	103	101	103
MS	101	105	100	105
MSD	100	103	100	103

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 04/24/13 at 02:27 PM

Group Number: 1384744

Surrogate Quality Control

Limits: 77-114 74-113 77-110 78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13113WAA026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7031131	86	75	86
7031132	30*	19*	38*
7031133	92	91	88
7031134	97	100	98
7031135	91	83	93
7031137	99	104	91
7031138	94	95	90
7031139	89	88	89
7031140	78	73	78
7031141	67	50*	73
7031142	41*	31*	49*
7031143	44*	24*	56*
7031144	41*	17*	56*
7031145	45*	24*	58
7031146	90	87	87
7031147	75	65	77
7031148	90	85	88
Blank	93	105	88
LCS	94	104	94
MS	97	100	98
MSD	91	83	93
Limits:	64-120	62-141	58-134

*- Outside of specification

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

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

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

ExxonMobil Analysis Request/Chain of Custody



**Lancaster
Laboratories**

Acct. # 14739

For Lancaster Laboratories use only
Group # 1384744 Sample # 7031131-49
Instructions on reverse side correspond with circled numbers.

Py. #1

1 Client Information				4 Matrix		5 Analyses Requested										6 Preservation Code		7 Remarks	
Facility #/SID <u>Mayflower Pipeline Incident</u> Site Address <u>Mayflower, AR</u> ExxonMobil PM <u>Scott Budroe</u> Cost Center/AFE _____ Consultant/Office <u>ARCADIS</u> Consultant PM <u>Steve Barrick</u> Consultant Phone # <u>919-32-6711</u> Sampler <u>Joshua Oliver</u> <u>315-857-5793</u>				☐ Sediment ☐ Potable ☐ Ground ☒ Surface ☐ NPDES ☐ Air ☐ Oil		Total # of Containers <u>UDC 8260 B</u> <u>PAH-8220 SIM</u> <u>PCRA Metals, Hg, V, Ni, Pb</u> <u>HEM (oil & grease)</u>										SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		Date analysis questions: Cynthia Mott ARCADIS	
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total # of Containers										
Date	Time																		
WS-003 (surface)	04/22/13	0910	X				X		8	X	X	X	X						
WS-019 (surface)	04/22/13	0950							8	V	X	X	X						
WS-002 (surface)	04/22/13	1045							8	V	X	X	X						
WS-BKG-001 (surface)	04/22/13	1130							8	V	X	X	X						
WS-005 (surface)	04/22/13	1200							8	V	X	X	X						
WS-008 (surface)	04/22/13	1400							8	V	X	X	X						
WS-001 (surface)	04/22/13	1440							8	V	X	X	X						
WS-001 (0.5-1.0)	04/22/13	1445							8	V	X	X	X						
WS-004 (surface)	04/22/13	1515							8	V	X	X	X						
WS-004 (0.5-1.0)	04/22/13	1520							8	V	X	X	X						
WS-007 (surface)	04/22/13	1555							8	V	X	X	X						
WS-007 (0.5-1.0)	04/22/13	1600							8	V	X	X	X						
7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour <u>24 hour</u>				Relinquished by <u>Joshua Oliver</u> Date <u>4/22/13</u> Time <u>1800</u>		Received by _____ Date _____ Time _____													
8 Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____				EDD (circle if required) Locus EIM (default) Other _____		Relinquished by Commercial Carrier UPS _____ FedEx _____ Other _____		Received by <u>Deborah Nesbitt</u> Date <u>4/23/13</u> Time <u>0925</u>											
Temperature Upon Receipt <u>1.5-1.9 °C</u>						Custody Seals Intact? <u>Yes</u> No													



**Lancaster
Laboratories**

For Lancaster Laboratories use only
Acct. # 14739 Group # 1384774 Sample # 703/131-49
Instructions on reverse side correspond with circled numbers.

For Lancaster Laboratories use only
 up # 1384744 Sample # 70311
 Instructions on reverse side correspond with circled numbers

Q. 2

[illegible]

Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300
The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management
7053.01

Rachel L. Kreamer A# 14739. Gr# 1382744. LL#s 7031131-49

From: Rachel L. Kreamer
Sent: Tuesday, April 23, 2013 3:35 PM
To: Mott, Lyndi
Cc: Kathy Klinefelter
Subject: Broken bottles

Attachments: 20130423152744655.pdf



2013042315274465
5.pdf (843 KB)...

Lyndi,

As noted on the doc log, we had two broken O&G bottles in this shipment. One each for location WS02 and WS001 were broken when the coolers arrived at the lab. We will keep you posted if we should run into problems.

Rachel

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

From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Tuesday, April 23, 2013 3:28 PM
To: Rachel L. Kreamer
Subject:

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

Scan Date: 04.23.2013 15:27:44 (-0400)
Queries to: 39Scanner@lancasterlabs.com

Environmental Sample Administration
Receipt Documentation Log

1384744

Client/Project: XOM MayflowerShipping Container Sealed: YES NODate of Receipt: 4/23/13Custody Seal Present *: YES NOTime of Receipt: 0925* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 50-1Package: 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	DT 121	1.6	TB	WI	Y	B	
2		1.5					
3		1.7					
4		1.6					
5		1.6					
6		1.9					

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

Paperwork Discrepancy/Unpacking Problems:

WS-002: 1 HEM OAG bottle rec'd broken @ UIWS-001:Unpacker Signature/Emp#: Danesh 208Date/Time: 4/23/13 0945

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
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 of gas 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.		

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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

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