

ANALYTICAL RESULTS

Prepared by:

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2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

May 09, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/04/2013

Group Number: 1387664

SDG: PEH11

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LLI)

WS-003(SURFACE)050313 Grab Surface Water	7045476
WS-002(SURFACE)050313 Grab Surface Water	7045477
WS-BKG-001(SURFACE)050313 Grab Surface Water	7045478
WS-005(SURFACE)050313 Grab Surface Water	7045479
WS-008(SURFACE)050313 Grab Surface Water	7045480
WS-008(SURFACE)MS050313 Grab Surface Water	7045481
WS-008(SURFACE)MSD050313 Grab Surface Water	7045482
WS-008(SURFACE)DUP050313 Grab Surface Water	7045483
WS-001(SURFACE)050313 Grab Surface Water	7045484
WS-001(0.5-1.0)050313 Grab Surface Water	7045485
WS-004(SURFACE)050313 Grab Surface Water	7045486
WS-004(0.5-1.0)050313 Grab Surface Water	7045487
WS-007(SURFACE)050313 Grab Surface Water	7045488
WS-007(0.5-1.0)050313 Grab Surface Water	7045489
WS-006(SURFACE)050313 Grab Surface Water	7045490
WS-006(0.5-1.0)050313 Grab Surface Water	7045491
WS-TB32-050313 Water	7045492

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

ELECTRONIC ARCADIS

COPY TO

Attn: Stephen Barrick

ELECTRONIC ARCADIS

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Attn: Lyndi Mott

ELECTRONIC ExxonMobil

COPY TO

Attn: Scott Bushroe

ELECTRONIC ExxonMobil
COPY TO
ELECTRONIC ARCADIS
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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 #: 1387664

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

Analysis Specific Comments:**SW-846 8270C SIM, GC/MS Semivolatiles**

Batch #: 13124WAH026 (Sample number(s): 7045476-7045482, 7045484-7045491 UNSPK: 7045480)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7045482, 7045486, 7045487, 7045488, 7045489, 7045490, MSD

Sample #s: 7045482

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. No further action was taken since this is the matrix spike duplicate sample.

Sample #s: 7045490

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

SW-846 6010B, Metals

Batch #: 131241848001 (Sample number(s): 7045476-7045491 UNSPK: 7045480 BKG:
7045480)

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

Sample Description: WS-003 (SURFACE) 050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045476
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 10:00 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF03 SDG#: PEH11-01

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) 050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045476
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 10:00 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF03 SDG#: PEH11-01

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 CaCO3	471-34-1	16.7	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	0.0346	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.53	0.0640	0.200	1

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

Sample Description: WS-003 (SURFACE) 050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045476
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 10:00 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

SRF03 SDG#: PEH11-01

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	0.0013 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.91	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0025 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	0.0033 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

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	H131251AA	05/05/2013 13:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 13:32	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 05:24	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 21:40	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 21:40	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 21:40	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 21:40	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 21:40	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 21:40	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 21:40	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 21:40	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 21:40	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 21:40	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 21:40	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-002 (SURFACE) 050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045477
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 10:45 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF02 SDG#: PEH11-02

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

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

Sample Description: WS-002 (SURFACE) 050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045477
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 10:45 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF02 SDG#: PEH11-02

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
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.9	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	0.0209	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.29	0.0640	0.200	1

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

Sample Description: WS-002 (SURFACE) 050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045477
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 10:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

SRF02 SDG#: PEH11-02

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	
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	1.63	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0011 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

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	H131251AA	05/05/2013 13:54	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 13:54	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 05:53	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 21:44	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 21:44	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 21:44	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 21:44	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 21:44	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 21:44	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 21:44	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 21:44	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 21:44	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 21:44	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 21:44	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-BKG-001(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045478
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:00 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

BK01S SDG#: PEH11-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	3.6 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-BKG-001(SURFACE) 050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045478
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:00 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

BK01S SDG#: PEH11-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.012	0.062	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.062	1
08357	Anthracene	120-12-7	N.D.	0.012	0.062	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.062	1
08357	Benzo(a)pyrene	50-32-8	0.013 J	0.012	0.062	1
08357	Benzo(b)fluoranthene	205-99-2	0.036 J	0.012	0.062	1
08357	Benzo(g,h,i)perylene	191-24-2	0.027 J	0.012	0.062	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.062	1
08357	Chrysene	218-01-9	0.041 J	0.012	0.062	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.062	1
08357	Fluoranthene	206-44-0	0.049 J	0.012	0.062	1
08357	Fluorene	86-73-7	N.D.	0.012	0.062	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.020 J	0.012	0.062	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.062	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.062	1
08357	Naphthalene	91-20-3	N.D.	0.037	0.062	1
08357	Phenanthrene	85-01-8	N.D.	0.037	0.062	1
08357	Pyrene	129-00-0	0.041 J	0.012	0.062	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	27.5	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	0.0775	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.41	0.0640	0.200	1

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

Sample Description: WS-BKG-001(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045478
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:00 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

BK01S SDG#: PEH11-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0099 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0076 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.18	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0078 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	0.0127	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131251AA	05/05/2013 14:15	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 14:15	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 06:22	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 21:47	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 21:47	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 21:47	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 21:47	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 21:47	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 21:47	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 21:47	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 21:47	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 21:47	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 21:47	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 21:47	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-005(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045479
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:20 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF05 SDG#: PEH11-04

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-005(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045479
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:20 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF05 SDG#: PEH11-04

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.4	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	0.0223	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.41	0.0640	0.200	1

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

Sample Description: WS-005(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045479
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:20 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

SRF05 SDG#: PEH11-04

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	1.67	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	0.0013 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

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	H131251AA	05/05/2013 14:37	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 14:37	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 06:51	Holly Berry	1
10470	BNW Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 21:51	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 21:51	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 21:51	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 21:51	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 21:51	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 21:51	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 21:51	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 21:51	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 21:51	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 21:51	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 21:51	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-008(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045480
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:40 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF08 SDG#: PEH11-05BKG

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	5.0	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.5 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	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	0.2 J	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) 050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045480
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:40 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF08 SDG#: PEH11-05BKG

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	0.9	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	0.2 J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.1 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	1.3	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	0.014 J	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	0.013 J	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	0.012 J	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	0.019 J	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	42.2	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0072 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0739	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	9.80	0.0640	0.200	1

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

Sample Description: WS-008 (SURFACE) 050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045480
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:40 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

SRF08 SDG#: PEH11-05BKG

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	0.0114 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0071 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.31	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0156	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	0.0136	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131251AA	05/05/2013 12:27	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 12:27	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 01:00	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 21:04	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 21:04	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 21:04	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 21:04	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 21:04	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 21:04	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 21:04	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 21:04	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 21:04	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 21:04	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 21:04	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-008(SURFACE)MS050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045481
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:40 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF08 SDG#: PEH11-05MS

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	39	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.8	0.1	0.5	1
02898	Benzene	71-43-2	5.6	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.2	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.9	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	4.8	0.1	0.5	1
02898	Bromoform	75-25-2	5.1	0.1	0.5	1
02898	Bromomethane	74-83-9	4.6	0.1	0.5	1
02898	2-Butanone	78-93-3	50	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.2	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.3	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.2	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.3	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.3	0.1	0.5	1
02898	Chloroethane	75-00-3	4.6	0.1	0.5	1
02898	Chloroform	67-66-3	5.1	0.1	0.5	1
02898	Chloromethane	74-87-3	4.4	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.2	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.2	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	6.6	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.1	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.0	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.9	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.2	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.2	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.2	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.6	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.1	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.9	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.3	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.0	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.2	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.4	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	5.0	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.0	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.1	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.1	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.8	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.3	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.4	0.1	0.5	1
02898	Freon 113	76-13-1	5.1	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.9	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.3	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.2	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.8	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	23	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.0	0.2	0.5	1

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

Sample Description: WS-008 (SURFACE) MS050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045481
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:40 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF08 SDG#: PEH11-05MS

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	5.2	0.1	0.5	1
02898	Styrene	100-42-5	5.3	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.1	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.0	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.5	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	32	2.0	5.0	1
02898	Toluene	108-88-3	6.2	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.9	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.0	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.2	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.3	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.2	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	4.9	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.9	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.3	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.4	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.6	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	17	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.94	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.96	0.010	0.051	1
08357	Anthracene	120-12-7	0.79	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	1.0	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.80	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.86	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.74	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.80	0.010	0.051	1
08357	Chrysene	218-01-9	0.92	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.73	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.85	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	0.73	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.0	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.0	0.010	0.051	1
08357	Naphthalene	91-20-3	1.0	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.85	0.031	0.051	1
08357	Pyrene	129-00-0	1.0	0.010	0.051	1
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	61.4	0.064	0.20	1
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.163	0.0068	0.0200	1
07046	Barium	7440-39-3	2.19	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0512	0.00036	0.0050	1
01750	Calcium	7440-70-2	14.0	0.0640	0.200	1

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

Sample Description: WS-008 (SURFACE) MS050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045481
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:40 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

SRF08 SDG#: PEH11-05MS

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	0.224	0.0011	0.0150	1
07055	Lead	7439-92-1	0.164	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.40	0.0606	0.100	1
07061	Nickel	7440-02-0	0.547	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.151	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0489	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.542	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0010	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131251AA	05/05/2013 12:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 12:49	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 01:29	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 21:14	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 21:14	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 21:14	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 21:14	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 21:14	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 21:14	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 21:14	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 21:14	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 21:14	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 21:14	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 21:14	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-008 (SURFACE) MSD050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045482
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:40 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF08 SDG#: PEH11-05MSD

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	34	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.7	0.1	0.5	1
02898	Benzene	71-43-2	5.4	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.0	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.8	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	4.7	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	46	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.0	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.1	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.1	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.1	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.1	0.1	0.5	1
02898	Chloroethane	75-00-3	4.5	0.1	0.5	1
02898	Chloroform	67-66-3	5.0	0.1	0.5	1
02898	Chloromethane	74-87-3	4.4	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.0	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.1	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	6.6	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.0	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.9	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.8	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.0	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.1	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.0	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.6	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	4.9	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.7	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.1	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	4.9	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.1	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.4	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	4.9	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	4.9	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	4.9	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.9	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	5.2	0.1	0.5	1
02898	Freon 113	76-13-1	5.0	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.8	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.1	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.1	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.7	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	23	1.0	5.0	1
02898	Methylene Chloride	75-09-2	4.9	0.2	0.5	1

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

Sample Description: WS-008 (SURFACE) MSD050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045482
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:40 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF08 SDG#: PEH11-05MSD

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	5.1	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	4.8	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.3	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	31	2.0	5.0	1
02898	Toluene	108-88-3	6.0	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.8	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.8	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	5.0	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.0	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	4.9	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.9	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.2	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.2	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.7	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	17	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.81	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.88	0.010	0.051	1
08357	Anthracene	120-12-7	0.68	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.48	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.30	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.34	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.28	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.31	0.010	0.051	1
08357	Chrysene	218-01-9	0.46	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.28	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.53	0.010	0.051	1
08357	Fluorene	86-73-7	0.85	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.28	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.93	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.90	0.010	0.051	1
08357	Naphthalene	91-20-3	0.96	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.74	0.031	0.051	1
08357	Pyrene	129-00-0	0.55	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. No further action was taken since this is the matrix spike duplicate sample.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	61.4	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.162	0.0068	0.0200	1
07046	Barium	7440-39-3	2.18	0.00033	0.0050	1

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

Sample Description: WS-008 (SURFACE) MSD050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045482
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:40 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

SRF08 SDG#: PEH11-05MSD

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	0.0510	0.00036	0.0050	1
01750	Calcium	7440-70-2	14.0	0.0640	0.200	1
07051	Chromium	7440-47-3	0.223	0.0011	0.0150	1
07055	Lead	7439-92-1	0.165	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.43	0.0606	0.100	1
07061	Nickel	7440-02-0	0.547	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.155	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0486	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.539	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0010	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131251AA	05/05/2013 13:10	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 13:10	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 01:59	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 21:18	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 21:18	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 21:18	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 21:18	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 21:18	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 21:18	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 21:18	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 21:18	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 21:18	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 21:18	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 21:18	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-008 (SURFACE) DUP050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045483
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 11:40 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF08 SDG#: PEH11-05DUP

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	43.3	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	0.0751	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	10.1	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0116 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0062 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.41	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0163	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	0.0133	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	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 21:11	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 21:11	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 21:11	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 21:11	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 21:11	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 21:11	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 21:11	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 21:11	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 21:11	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 21:11	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 21:11	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-001(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045484
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:30 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF01 SDG#: PEH11-06

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	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)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045484
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:30 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF01 SDG#: PEH11-06

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	0.1 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	19.0	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	0.0673	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.86	0.0640	0.200	1

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

Sample Description: WS-001(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045484
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:30 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

SRF01 SDG#: PEH11-06

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	0.0066 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0065 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.29	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0060 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	0.0113	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131251AA	05/05/2013 14:58	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 14:58	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 07:20	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 21:54	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 21:54	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 21:54	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 21:54	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 21:54	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 21:54	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 21:54	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 21:54	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 21:54	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 21:54	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 21:54	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-001(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045485
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:35 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

1-051 SDG#: PEH11-07

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(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045485
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:35 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

1-051 SDG#: PEH11-07

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	0.1 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	0.022 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.015 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	0.041 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	0.023 J	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	0.037 J	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	19.1	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	0.0664	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.88	0.0640	0.200	1

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

Sample Description: WS-001(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045485
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:35 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

1-051 SDG#: PEH11-07

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	0.0066 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0061 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.28	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0062 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	0.0110	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131251AA	05/05/2013 15:20	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 15:20	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 07:50	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 21:58	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 21:58	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 21:58	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 21:58	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 21:58	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 21:58	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 21:58	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 21:58	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 21:58	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 21:58	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 21:58	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-004(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045486
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:40 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF-4 SDG#: PEH11-08

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	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	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	0.3 J	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	0.1 J	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	0.2 J	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(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045486
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:40 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

SRF-4 SDG#: PEH11-08

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	0.1 J	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	14	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	1.1	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.7	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	2.8	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.015 J	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	0.036 J	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	0.22	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.27	0.010	0.052	1
08357	Naphthalene	91-20-3	0.15	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	mg/l	
06256	Total Hardness as CaCO3	471-34-1	44.9	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0199 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.299	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	8.76	0.0640	0.200	1

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

Sample Description: WS-004(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045486
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:40 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

SRF-4 SDG#: PEH11-08

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	
07051	Chromium	7440-47-3	0.0331	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0382	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.59	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0294	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	0.0522	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131251AA	05/05/2013 16:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 16:24	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 08:19	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 22:02	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 22:02	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 22:02	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 22:02	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 22:02	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 22:02	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 22:02	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 22:02	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 22:02	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 22:02	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 22:02	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-004(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045487
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:45 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

4-051 SDG#: PEH11-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	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	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	0.3 J	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	0.1 J	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	0.2 J	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)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045487
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:45 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

4-051 SDG#: PEH11-09

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	0.1 J	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	13	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	1.0	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.7	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	2.7	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.012	0.062	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.062	1
08357	Anthracene	120-12-7	N.D.	0.012	0.062	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.062	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.062	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.062	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.062	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.062	1
08357	Chrysene	218-01-9	N.D.	0.012	0.062	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.062	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.062	1
08357	Fluorene	86-73-7	0.038 J	0.012	0.062	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.062	1
08357	1-Methylnaphthalene	90-12-0	0.18	0.012	0.062	1
08357	2-Methylnaphthalene	91-57-6	0.21	0.012	0.062	1
08357	Naphthalene	91-20-3	0.13	0.037	0.062	1
08357	Phenanthrene	85-01-8	N.D.	0.037	0.062	1
08357	Pyrene	129-00-0	N.D.	0.012	0.062	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	43.8	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0206	0.0068	0.0200	1
07046	Barium	7440-39-3	0.299	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	8.07	0.0640	0.200	1

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

Sample Description: WS-004(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045487
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

4-051 SDG#: PEH11-09

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	
07051	Chromium	7440-47-3	0.0345	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0394	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.74	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0305	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	0.0542	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131251AA	05/05/2013 16:46	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 16:46	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 08:49	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 22:05	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 22:05	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 22:05	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 22:05	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 22:05	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 22:05	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 22:05	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 22:05	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 22:05	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 22:05	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 22:05	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-007(SURFACE)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045488
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:50 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF-7 SDG#: PEH11-10

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	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	0.1 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	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	1.2 J	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	0.2 J	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	0.2 J	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)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045488
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:50 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

SRF-7 SDG#: PEH11-10

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	5.3	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	0.8	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.5	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	1.9	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.047 J	0.011	0.053	1
08357	Acenaphthylene	208-96-8	0.022 J	0.011	0.053	1
08357	Anthracene	120-12-7	0.028 J	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	0.043 J	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	0.032 J	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	0.043 J	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	0.041 J	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	0.030 J	0.011	0.053	1
08357	Chrysene	218-01-9	0.059	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	0.031 J	0.011	0.053	1
08357	Fluoranthene	206-44-0	0.079	0.011	0.053	1
08357	Fluorene	86-73-7	0.078	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.049 J	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	0.082	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.082	0.011	0.053	1
08357	Naphthalene	91-20-3	0.055	0.032	0.053	1
08357	Phenanthrene	85-01-8	0.059	0.032	0.053	1
08357	Pyrene	129-00-0	0.074	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	43.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0224	0.0068	0.0200	1
07046	Barium	7440-39-3	0.336	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.55	0.0640	0.200	1

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

Sample Description: WS-007 (SURFACE) 050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045488
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:50 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

SRF-7 SDG#: PEH11-10

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	
07051	Chromium	7440-47-3	0.0373	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0424	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.01	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0345	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	0.0579	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131251AA	05/05/2013 17:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 17:08	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 16:29	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 22:09	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 22:09	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 22:09	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 22:09	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 22:09	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 22:09	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 22:09	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 22:09	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 22:09	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 22:09	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 22:09	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-007(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045489
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:55 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

7-51- SDG#: PEH11-11

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	6.4	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.1 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	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	1.2 J	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	0.2 J	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	0.2 J	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)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045489
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:55 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

7-51- SDG#: PEH11-11

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	5.9	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	0.8	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.5	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	2.1	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.27	0.012	0.058	1
08357	Acenaphthylene	208-96-8	0.37	0.012	0.058	1
08357	Anthracene	120-12-7	0.90	0.012	0.058	1
08357	Benzo(a)anthracene	56-55-3	4.2	0.012	0.058	1
08357	Benzo(a)pyrene	50-32-8	2.1	0.012	0.058	1
08357	Benzo(b)fluoranthene	205-99-2	7.2	0.012	0.058	1
08357	Benzo(g,h,i)perylene	191-24-2	1.5	0.012	0.058	1
08357	Benzo(k)fluoranthene	207-08-9	2.6	0.012	0.058	1
08357	Chrysene	218-01-9	9.8	0.012	0.058	1
08357	Dibenz(a,h)anthracene	53-70-3	0.38	0.012	0.058	1
08357	Fluoranthene	206-44-0	21	0.058	0.29	5
08357	Fluorene	86-73-7	0.29	0.012	0.058	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	2.2	0.012	0.058	1
08357	1-Methylnaphthalene	90-12-0	0.085	0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	0.092	0.012	0.058	1
08357	Naphthalene	91-20-3	0.12	0.035	0.058	1
08357	Phenanthrene	85-01-8	4.4	0.035	0.058	1
08357	Pyrene	129-00-0	18	0.058	0.29	5
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	64.5	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0299	0.0068	0.0200	1
07046	Barium	7440-39-3	0.538	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	11.3	0.0640	0.200	1

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

Sample Description: WS-007(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045489
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 13:55 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

7-51- SDG#: PEH11-11

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	
07051	Chromium	7440-47-3	0.0549	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0876	0.0051	0.0150	1
01757	Magnesium	7439-95-4	8.84	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0513	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	0.0871	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00012 J	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131251AA	05/05/2013 17:29	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 17:29	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 16:59	Holly Berry	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 19:26	Holly Berry	5
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 22:12	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 22:12	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 22:12	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 22:12	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 22:12	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 22:12	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 22:12	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 22:12	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 22:12	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 22:12	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 22:12	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-006 (SURFACE) 050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045490
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 14:00 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

6-SRF SDG#: PEH11-12

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

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

Sample Description: WS-006 (SURFACE) 050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045490
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 14:00 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

6-SRF SDG#: PEH11-12

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	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
The 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	19.1	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	0.0673	0.00033	0.0050	1

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

Sample Description: WS-006 (SURFACE) 050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045490
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 14:00 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

6-SRF SDG#: PEH11-12

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	3.90	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0065 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.27	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0062 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	0.0109	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131251AA	05/05/2013 15:42	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 15:42	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 17:28	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 22:23	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 22:23	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 22:23	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 22:23	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 22:23	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 22:23	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 22:23	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 22:23	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 22:23	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 22:23	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 22:23	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-006(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045491
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 14:05 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

6--51 SDG#: PEH11-13

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(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045491
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 14:05 by AP

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

6--51 SDG#: PEH11-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.012	0.061	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.061	1
08357	Anthracene	120-12-7	N.D.	0.012	0.061	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.061	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.061	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.061	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.061	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.061	1
08357	Chrysene	218-01-9	N.D.	0.012	0.061	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.061	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.061	1
08357	Fluorene	86-73-7	N.D.	0.012	0.061	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.061	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.061	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.061	1
08357	Naphthalene	91-20-3	N.D.	0.037	0.061	1
08357	Phenanthrene	85-01-8	N.D.	0.037	0.061	1
08357	Pyrene	129-00-0	N.D.	0.012	0.061	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	19.2	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	0.0679	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.93	0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)050313 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045491
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/03/2013 14:05 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/04/2013 09:30

PO Box 4416

Reported: 05/09/2013 12:32

Houston TX 77210-4416

6--51 SDG#: PEH11-13

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	0.0064 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0061 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.27	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0061 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	0.0107	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131251AA	05/05/2013 16:03	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 16:03	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAH026	05/05/2013 17:57	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13124WAH026	05/04/2013 14:00	William H Saadeh	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131256256001	05/05/2013 08:05	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131241848001	05/04/2013 22:27	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131241848001	05/04/2013 22:27	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131241848001	05/04/2013 22:27	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131241848001	05/04/2013 22:27	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131241848001	05/04/2013 22:27	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131241848001	05/04/2013 22:27	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131241848001	05/04/2013 22:27	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131241848001	05/04/2013 22:27	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131241848001	05/04/2013 22:27	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131241848001	05/04/2013 22:27	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131241848001	05/04/2013 22:27	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131245713001	05/05/2013 07:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131241848001	05/04/2013 12:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131245713001	05/04/2013 12:15	Damary Valentin	1

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

Sample Description: WS-TB32-050313 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045492
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

32-TB SDG#: PEH11-14TB*

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-TB32-050313 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045492
LLI Group # 1387664
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013

ExxonMobil

Submitted: 05/04/2013 09:30

Mobil Pipeline Company

Reported: 05/09/2013 12:32

PO Box 4416

Houston TX 77210-4416

32-TB SDG#: PEH11-14TB*

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	H131251AA	05/05/2013 12:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131251AA	05/05/2013 12:05	Jason M Long	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/09/13 at 12:32 PM

Group Number: 1387664

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: H131251AA	Sample number(s): 7045476-7045482, 7045484-7045492								
Acetone	N.D.	3.0	5.0	ug/l	100		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	94		61-130		
Benzene	N.D.	0.1	0.5	ug/l	96		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	99		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	97		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	107		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	94		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	114		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	97		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	104		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	89		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	102		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	102		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	113		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	105		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	103		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	100		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	88		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	97		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	98		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	98		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	98		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	99		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	108		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	98		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	102		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	94		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	95		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	101		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	101		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	91		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	92		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	101		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: 1387664

Reported: 05/09/13 at 12:32 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Isopropylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	103		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	97		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	95		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	100		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Styrene	N.D.	0.1	0.5	ug/l	105		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	102		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	101		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	104		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	109		65-131		
Toluene	N.D.	0.1	0.5	ug/l	101		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	103		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	101		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	98		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	105		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	98		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	95		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	103		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	90		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	102		80-120		

Batch number: 13124WAH026

Sample number(s): 7045476-7045482,7045484-7045491

Acenaphthene	N.D.	0.010	0.050	ug/l	102		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	105		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	102		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	100		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	95		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	107		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	95		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	97		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	103		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	87		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	104		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	102		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	90		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	106		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	104		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	102		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	105		71-116		

Batch number: 131241848001

Sample number(s): 7045476-7045491

Arsenic	N.D.	0.0068	0.0200	mg/l	102		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	105		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	103		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	103		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	104		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	107		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	100		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	108		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	104		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	99		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	105		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: 1387664

Reported: 05/09/13 at 12:32 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: 131245713001	Sample number(s): 7045476-7045491								
Mercury	N.D.	0.00007	0.00020	mg/l	95		80-120		
		0							

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: H131251AA	Sample number(s): 7045476-7045482, 7045484-7045492 UNSPK: 7045480								
Acetone	89	78	57-163	11	30				
Allyl Chloride	96	94	67-139	2	30				
Benzene	102	97	87-126	4	30				
Bromobenzene	103	100	80-123	3	30				
Bromochloromethane	97	97	82-125	0	30				
Bromodichloromethane	96	93	82-133	3	30				
Bromoform	101	99	60-138	2	30				
Bromomethane	92	94	41-145	2	30				
2-Butanone	134	123	63-146	9	30				
n-Butylbenzene	104	100	83-131	3	30				
sec-Butylbenzene	106	103	84-128	3	30				
tert-Butylbenzene	103	101	84-135	2	30				
Carbon Tetrachloride	106	103	81-148	3	30				
Chlorobenzene	105	102	78-133	3	30				
Chloroethane	91	90	70-139	1	30				
Chloroform	101	99	86-136	2	30				
Chloromethane	87	88	55-152	1	30				
2-Chlorotoluene	104	101	81-120	3	30				
4-Chlorotoluene	104	101	82-119	3	30				
1,2-Dibromo-3-chloropropane	133	133	43-143	0	30				
Dibromochloromethane	103	99	79-125	3	30				
1,2-Dibromoethane	100	97	84-127	2	30				
Dibromomethane	98	96	83-126	2	30				
1,2-Dichlorobenzene	103	100	83-117	3	30				
1,3-Dichlorobenzene	104	102	81-118	2	30				
1,4-Dichlorobenzene	104	100	79-120	4	30				
Dichlorodifluoromethane	91	91	28-136	0	30				
1,1-Dichloroethane	101	99	88-136	3	30				
1,2-Dichloroethane	97	94	82-135	3	30				
1,1-Dichloroethene	107	103	83-150	3	30				
cis-1,2-Dichloroethene	100	97	82-129	2	30				
trans-1,2-Dichloroethene	104	102	88-127	2	30				
Dichlorofluoromethane	109	109	59-176	0	30				
1,2-Dichloropropane	101	97	91-126	3	30				
1,3-Dichloropropane	100	98	80-127	2	30				
2,2-Dichloropropane	100	98	80-134	3	30				
1,1-Dichloropropene	102	99	86-139	3	30				
cis-1,3-Dichloropropene	101	97	74-132	4	30				
trans-1,3-Dichloropropene	96	94	71-128	2	30				
Ethyl ether	86	87	67-127	0	30				

*- Outside of specification

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/09/13 at 12:32 PM

Group Number: 1387664

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
Ethylbenzene	104	101	80-140	3	30				
Freon 113	102	99	87-158	3	30				
Hexachlorobutadiene	98	96	65-128	3	30				
Isopropylbenzene	105	102	81-133	3	30				
p-Isopropyltoluene	105	102	84-124	2	30				
Methyl Tertiary Butyl Ether	95	93	82-132	2	30				
4-Methyl-2-Pentanone	94	94	69-149	0	30				
Methylene Chloride	101	98	84-122	2	30				
n-Propylbenzene	105	101	79-131	4	30				
Styrene	105	103	63-151	2	30				
1,1,1,2-Tetrachloroethane	102	99	87-126	3	30				
1,1,2,2-Tetrachloroethane	99	97	75-131	2	30				
Tetrachloroethene	110	106	75-129	3	30				
Tetrahydrofuran	129	123	56-154	4	30				
Toluene	107	101	83-127	4	30				
1,2,3-Trichlorobenzene	98	96	73-125	1	30				
1,2,4-Trichlorobenzene	99	96	77-120	3	30				
1,1,1-Trichloroethane	104	101	85-140	3	30				
1,1,2-Trichloroethane	105	101	85-129	4	30				
Trichloroethene	103	100	85-131	3	30				
Trichlorofluoromethane	98	99	67-161	0	30				
1,2,3-Trichloropropane	97	98	76-120	1	30				
1,2,4-Trimethylbenzene	104	101	87-126	2	30				
1,3,5-Trimethylbenzene	104	102	89-129	3	30				
Vinyl Chloride	92	93	65-151	1	30				
Xylene (Total)	106	102	81-137	4	30				

Batch number: 13124WAH026 Sample number(s): 7045476-7045482,7045484-7045491 UNSPK: 7045480

Acenaphthene	92	79	59-127	14	30
Acenaphthylene	94	85	33-146	9	30
Anthracene	78	66*	69-119	16	30
Benzo(a)anthracene	97	45*	67-124	71*	30
Benzo(a)pyrene	78	30*	64-123	90*	30
Benzo(b)fluoranthene	84	33*	61-133	87*	30
Benzo(g,h,i)perylene	72	27*	36-138	90*	30
Benzo(k)fluoranthene	79	30*	59-128	89*	30
Chrysene	88	44*	62-118	66*	30
Dibenz(a,h)anthracene	71	27*	32-141	90*	30
Fluoranthene	82	50*	65-123	47*	30
Fluorene	98	83	69-124	16	30
Indeno(1,2,3-cd)pyrene	71	27*	29-143	90*	30
1-Methylnaphthalene	102	90	67-117	11	30
2-Methylnaphthalene	99	88	71-126	12	30
Naphthalene	98	93	58-131	4	30
Phenanthrene	84	72	67-117	14	30
Pyrene	98	52*	59-125	60*	30

Batch number: 131241848001 Sample number(s): 7045476-7045491 UNSPK: 7045480 BKG: 7045480

Arsenic	104	103	81-123	1	20	0.0072 J	N.D.	200* (1)	20
Barium	106	105	78-118	0	20	0.0739	0.0751	2	20
Cadmium	102	102	83-116	0	20	N.D.	N.D.	0 (1)	20
Calcium	106	105	81-118	0	20	9.80	10.1	3	20

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1387664

Reported: 05/09/13 at 12:32 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>
Chromium	106	106	81-120	0	20	0.0114 J	0.0116 J	2 (1)	20
Lead	105	105	75-125	1	20	0.0071 J	0.0062 J	14 (1)	20
Magnesium	105	106	75-125	0	20	4.31	4.41	2	20
Nickel	106	106	86-115	0	20	0.0156	0.0163	4 (1)	20
Selenium	101	103	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	98	97	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	106	105	90-111	1	20	0.0136	0.0133	2 (1)	20

Batch number: 131245713001

Sample number(s): 7045476-7045491 UNSPK: 7045480 BKG: 7045480

Mercury	103	104	80-120	1	20	N.D.	N.D.	0 (1)	20
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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: H131251AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
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7045476	100	102	100	98
7045477	100	103	101	98
7045478	100	103	100	97
7045479	100	101	100	98
7045480	99	102	100	98
7045481	101	101	101	101
7045482	99	101	101	99
7045484	100	102	100	98
7045485	100	103	100	97
7045486	99	102	100	98
7045487	99	102	101	99
7045488	99	102	100	98
7045489	99	102	101	99
7045490	100	105	99	97
7045491	99	101	100	97
7045492	100	104	100	98
Blank	99	103	100	98
LCS	99	102	101	100
MS	101	101	101	101
MSD	99	101	101	99

Limits:	77-114	74-113	77-110	78-110
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Analysis Name: PAHs in waters by SIM

Batch number: 13124WAH026

Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
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7045476	91	90	91
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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: 1387664

Reported: 05/09/13 at 12:32 PM

Surrogate Quality Control

7045477	98	99	95
7045478	88	84	90
7045479	96	96	91
7045480	87	85	83
7045481	84	88	92
7045482	53*	32*	82
7045484	78	73	77
7045485	81	85	83
7045486	33*	21*	43*
7045487	38*	26*	48*
7045488	49*	39*	60
7045489	50*	42*	68
7045490	67	60*	66
7045491	85	85	82
Blank	91	101	91
LCS	98	103	99
MS	84	88	92
MSD	53*	32*	82
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.

Acct. # 14739

For Lancaster Laboratories use only
Group # 1387664 Sample # 7045476-92
Instructions on reverse side correspond with circled numbers.

1 of 2

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



**Lancaster
Laboratories**

Acct. # 14739

For Lancaster Laboratories use only
Group # 1387664 Sample # _____
Instructions on reverse side correspond with circled number

Sample # 7045476-492

2 of 2

[illegible]

Environmental Sample Administration
Receipt Documentation LogClient/Project: Arados MayflowerShipping Container Sealed: YES NODate of Receipt: 5/4/13Custody Seal Present *: YES NOTime of Receipt: 0930* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 50Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.1	TB	WI	y	B	
2	↓	0.3	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Pat Gu 3472 Date/Time: 5/4/13 1016

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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