

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

June 23, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 06/17/2013

Group Number: 1397668

SDG: PEI28

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LLI)

WS-003(Surface)061513 Grab Surface Water	7095859
WS-002(Surface)061513 Grab Surface Water	7095860
WS-005(Surface)061513 Grab Surface Water	7095861
WS-001(Surface)061513 Grab Surface Water	7095862
WS-001(0.5-1.0)061513 Grab Surface Water	7095863
WS-004(Surface)061513 Grab Surface Water	7095864
WS-004(0.5-1.0)061513 Grab Surface Water	7095865
WS-007(Surface)061513 Grab Surface Water	7095866
WS-007(0.5-1.0)061513 Grab Surface Water	7095867
WS-006(Surface)061513 Grab Surface Water	7095868
WS-006(0.5-1.0)061513 Grab Surface Water	7095869
DUP-WS-41-061513 Grab Surface Water	7095870
WS-003(Surface)061613 Grab Surface Water	7095871
WS-002(Surface)061613 Grab Surface Water	7095872
WS-005(Surface)061613 Grab Surface Water	7095873
WS-001(Surface)061613 Grab Surface Water	7095874
WS-001(0.5-1.0)061613 Grab Surface Water	7095875
WS-004(Surface)061613 Grab Surface Water	7095876
WS-004(0.5-1.0)061613 Grab Surface Water	7095877
WS-007(Surface)061613 Grab Surface Water	7095878
WS-007(Surface)061613 MS Grab Surface Water	7095879
WS-007(Surface)061613 MSD Grab Surface Water	7095880
WS-007(Surface)061613 DUP Grab Surface Water	7095881
WS-007(0.5-1.0)061613 Grab Surface Water	7095882
WS-006(Surface)061613 Grab Surface Water	7095883
WS-006(0.5-1.0)061613 Grab Surface Water	7095884
WS-TB-74-061613 Water	7095885

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

ELECTRONIC COPY TO	ARCADIS	Attn: Stephen Barrick
ELECTRONIC COPY TO	ARCADIS	Attn: Lyndi Mott
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael J. Firth
ELECTRONIC COPY TO	ARCADIS	Attn: Emily Leamer
ELECTRONIC COPY TO	ARCADIS	Attn: Rhiannon Parmalee
ELECTRONIC COPY TO	ARCADIS	Attn: Jamie Pritchard
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael L Sixsmith
ELECTRONIC COPY TO	ExxonMobil	Attn: Julie Foster
ELECTRONIC COPY TO	ExxonMobil	Attn: Carl Wideman

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1397668

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 #: 13169WAB026 (Sample number(s): 7095859-7095877)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7095859, 7095860, 7095861, 7095875

Batch #: 13169WAD026 (Sample number(s): 7095878-7095880, 7095882-7095884 UNSPK: 7095878)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7095884

Sample #s: 7095859, 7095860, 7095861, 7095875, 7095884

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 #: 131681848005 (Sample number(s): 7095863-7095884 UNSPK: 7095878 BKG: 7095878)

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

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Chromium, Lead, Nickel, Vanadium

Batch #: 131681848006 (Sample number(s): 7095859-7095862 UNSPK: 7095861 BKG: 7095861)

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

Sample Description: WS-003(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095859
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 07:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-3S SDG#: PEI28-01

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)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095859
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 07:30 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-3S SDG#: PEI28-01

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
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	20.6	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	0.0166	0.00033	0.0050	1

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

Sample Description: WS-003(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095859
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 07:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-3S SDG#: PEI28-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.64	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.19	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0015 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	C131691AA	06/18/2013 10:50	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131691AA	06/18/2013 10:50	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 11:08	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256010	06/21/2013 10:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848006	06/20/2013 14:06	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131681848006	06/20/2013 14:06	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131681848006	06/20/2013 14:06	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131681848006	06/20/2013 14:06	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131681848006	06/20/2013 14:06	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131681848006	06/20/2013 14:06	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131681848006	06/20/2013 14:06	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131681848006	06/20/2013 14:06	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131681848006	06/20/2013 14:06	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131681848006	06/20/2013 14:06	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131681848006	06/20/2013 14:06	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 06:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848006	06/18/2013 09:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095860
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 07:50 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-2S SDG#: PEI28-02

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)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095860
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 07:50 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-2S SDG#: PEI28-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO ₃	471-34-1	20.1	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	0.0218	0.00033	0.0050	1

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

Sample Description: WS-002(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095860
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 07:50 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-2S SDG#: PEI28-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.63	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.08	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131691AA	06/18/2013 11:12	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131691AA	06/18/2013 11:12	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 11:37	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256010	06/21/2013 10:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848006	06/20/2013 14:10	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131681848006	06/20/2013 14:10	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131681848006	06/20/2013 14:10	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131681848006	06/20/2013 14:10	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131681848006	06/20/2013 14:10	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131681848006	06/20/2013 14:10	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131681848006	06/20/2013 14:10	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131681848006	06/20/2013 14:10	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131681848006	06/20/2013 14:10	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131681848006	06/20/2013 14:10	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131681848006	06/20/2013 14:10	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 06:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848006	06/18/2013 09:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095861
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 08:40 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-5S SDG#: PEI28-03

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	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)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095861
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 08:40 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-5S SDG#: PEI28-03

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.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The 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	21.5	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	0.0347	0.00033	0.0050	1

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

Sample Description: WS-005(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095861
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 08:40 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-5S SDG#: PEI28-03

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	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.04	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0014 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.17	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0016 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	0.0016 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	C131691AA	06/18/2013 11:34	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131691AA	06/18/2013 11:34	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 12:07	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256010	06/21/2013 10:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848006	06/20/2013 13:43	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131681848006	06/20/2013 13:43	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131681848006	06/20/2013 13:43	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131681848006	06/20/2013 13:43	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131681848006	06/20/2013 13:43	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131681848006	06/20/2013 13:43	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131681848006	06/20/2013 13:43	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131681848006	06/20/2013 13:43	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131681848006	06/20/2013 13:43	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131681848006	06/20/2013 13:43	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131681848006	06/20/2013 13:43	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 06:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848006	06/18/2013 09:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-001(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095862
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 09:10 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-1S SDG#: PEI28-04

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

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

Sample Description: WS-001(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095862
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 09:10 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-1S SDG#: PEI28-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	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	20.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0302	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.61	0.0640	0.200	1

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

Sample Description: WS-001(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095862
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 09:10 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-1S SDG#: PEI28-04

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	0.0019 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.21	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0029 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	0.0025 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	C131691AA	06/18/2013 11:58	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131691AA	06/18/2013 11:58	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 12:37	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256010	06/21/2013 10:15	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848006	06/20/2013 14:21	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131681848006	06/20/2013 14:21	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131681848006	06/20/2013 14:21	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131681848006	06/20/2013 14:21	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131681848006	06/20/2013 14:21	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131681848006	06/20/2013 14:21	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131681848006	06/20/2013 14:21	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131681848006	06/20/2013 14:21	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131681848006	06/20/2013 14:21	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131681848006	06/20/2013 14:21	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131681848006	06/20/2013 14:21	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 06:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848006	06/18/2013 09:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095863
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 09:20 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-10 SDG#: PEI28-05

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

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

Sample Description: WS-001(0.5-1.0)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095863
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 09:20 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-10 SDG#: PEI28-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	21.4	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	0.0260	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.83	0.0640	0.200	1

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

Sample Description: WS-001(0.5-1.0)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095863
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 09:20 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-10 SDG#: PEI28-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0059 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.26	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0022 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0021 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	C131691AA	06/18/2013 12:20	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131691AA	06/18/2013 12:20	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 13:06	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 18:58	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 18:58	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 18:58	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 18:58	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 18:58	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 18:58	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 18:58	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 18:58	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 18:58	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 18:58	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 18:58	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 06:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-004(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095864
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 09:30 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-4S SDG#: PEI28-06

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	5.3	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-004(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095864
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 09:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-4S SDG#: PEI28-06

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.	0.011	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	0.011 J	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	0.024 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	0.017 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	0.019 J	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.014 J	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		
06256	Total Hardness as CaCO3	471-34-1	23.8	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.169	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00059 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.29	0.0640	0.200	1

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

Sample Description: WS-004(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095864
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 09:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-4S SDG#: PEI28-06

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	0.0038 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0082 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.58	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0038 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0060	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	C131691AA	06/18/2013 12:42	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131691AA	06/18/2013 12:42	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 13:36	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 19:02	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 19:02	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 19:02	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 19:02	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 19:02	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 19:02	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 19:02	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 19:02	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 19:02	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 19:02	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 19:02	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095865
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 09:40 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-40 SDG#: PEI28-07

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

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

Sample Description: WS-004(0.5-1.0)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095865
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 09:40 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-40 SDG#: PEI28-07

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	3.8	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	0.015 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.011 J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.015 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.020 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.012 J	0.010	0.051	1
08357	Chrysene	218-01-9	0.025 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	0.026 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	0.017 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.013 J	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	0.025 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	45.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0131 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.305	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0021 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	9.32	0.0640	0.200	1

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

Sample Description: WS-004(0.5-1.0)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095865
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 09:40 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-40 SDG#: PEI28-07

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	0.0522	0.0011	0.0150	1
07055	Lead	7439-92-1	0.285	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.29	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0421	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	0.0601	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00013 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	I131691AA	06/18/2013 16:36	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 16:36	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 14:05	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 19:14	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 19:14	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 19:14	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 19:14	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 19:14	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 19:14	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 19:14	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 19:14	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 19:14	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 19:14	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 19:14	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095866
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 10:20 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-7S SDG#: PEI28-08

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

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

Sample Description: WS-007(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095866
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 10:20 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-7S SDG#: PEI28-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.2 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	0.011 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.012 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.013 J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.020 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.011 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.011 J	0.010	0.051	1
08357	Chrysene	218-01-9	0.055	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	0.050 J	0.010	0.051	1
08357	Fluorene	86-73-7	0.011 J	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	0.022 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.018 J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.037 J	0.031	0.051	1
08357	Pyrene	129-00-0	0.043 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	18.0	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	0.0599	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00041 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.13	0.0640	0.200	1

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

Sample Description: WS-007(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095866
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 10:20 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-7S SDG#: PEI28-08

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	0.0022 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0064 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.88	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0021 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	0.0039 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	I131691AA	06/18/2013 16:57	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 16:57	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 14:35	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 19:18	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 19:18	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 19:18	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 19:18	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 19:18	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 19:18	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 19:18	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 19:18	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 19:18	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 19:18	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 19:18	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095867
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 10:30 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-70 SDG#: PEI28-09

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

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

Sample Description: WS-007(0.5-1.0)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095867
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 10:30 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-70 SDG#: PEI28-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	11	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	0.33	0.011	0.053	1
08357	Acenaphthylene	208-96-8	0.61	0.011	0.053	1
08357	Anthracene	120-12-7	1.2	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	2.7	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	3.1	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	4.2	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	1.1	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	2.5	0.011	0.053	1
08357	Chrysene	218-01-9	9.9	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	0.34	0.011	0.053	1
08357	Fluoranthene	206-44-0	24	0.053	0.27	5
08357	Fluorene	86-73-7	0.38	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	0.070	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.069	0.011	0.053	1
08357	Naphthalene	91-20-3	0.10	0.032	0.053	1
08357	Phenanthrene	85-01-8	7.8	0.032	0.053	1
08357	Pyrene	129-00-0	20	0.053	0.27	5
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	30.7	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	0.168	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0010 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.47	0.0640	0.200	1

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

Sample Description: WS-007(0.5-1.0)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095867
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 10:30 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-70 SDG#: PEI28-09

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	0.0192	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0554	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.14	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0152	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	0.0283	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	I131691AA	06/18/2013 17:18	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 17:18	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 15:04	Linda M Hartenstine	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/23/2013 03:55	Holly Berry	5
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 19:22	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 19:22	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 19:22	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 19:22	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 19:22	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 19:22	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 19:22	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 19:22	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 19:22	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 19:22	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 19:22	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-006(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095868
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 10:50 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-6S SDG#: PEI28-10

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

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

Sample Description: WS-006(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095868
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 10:50 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-6S SDG#: PEI28-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	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	20.0	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	0.0174	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.52	0.0640	0.200	1

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

Sample Description: WS-006(Surface)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095868
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 10:50 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-6S SDG#: PEI28-10

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	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.11	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131691AA	06/18/2013 17:39	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 17:39	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 15:34	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 19:26	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 19:26	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 19:26	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 19:26	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 19:26	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 19:26	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 19:26	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 19:26	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 19:26	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 19:26	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 19:26	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095869
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 11:00 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-60 SDG#: PEI28-11

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

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

Sample Description: WS-006(0.5-1.0)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095869
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 11:00 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15-60 SDG#: PEI28-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	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	0.015 J	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	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	19.5	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	0.0203	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.35	0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095869
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 11:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15-60 SDG#: PEI28-11

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	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.10	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0015 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	0.0015 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	I131691AA	06/18/2013 18:00	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 18:00	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 16:04	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 19:30	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 19:30	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 19:30	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 19:30	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 19:30	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 19:30	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 19:30	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 19:30	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 19:30	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 19:30	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 19:30	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: DUP-WS-41-061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095870
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

15DUP SDG#: PEI28-12FD

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

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

Sample Description: DUP-WS-41-061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095870
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15DUP SDG#: PEI28-12FD

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	0.5 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.013 J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	0.015 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.018 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.016 J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.026 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.011 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	0.046 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	0.081	0.010	0.051	1
08357	Fluorene	86-73-7	0.015 J	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	0.022 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.019 J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.061	0.031	0.051	1
08357	Pyrene	129-00-0	0.067	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	18.3	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	0.0903	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00040 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.11	0.0640	0.200	1

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

Sample Description: DUP-WS-41-061513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095870
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/15/2013 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

15DUP SDG#: PEI28-12FD

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	0.0024 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0071 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.95	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0033 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	0.0049 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	I131691AA	06/18/2013 18:21	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 18:21	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 16:33	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 19:34	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 19:34	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 19:34	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 19:34	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 19:34	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 19:34	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 19:34	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 19:34	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 19:34	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 19:34	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 19:34	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-003(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095871
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 08:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-3S SDG#: PEI28-13

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-003(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095871
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 08:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-3S SDG#: PEI28-13

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	0.2 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.3 J	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	20.9	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	0.0171	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00038 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.67	0.0640	0.200	1

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

Sample Description: WS-003(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095871
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 08:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-3S SDG#: PEI28-13

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	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.24	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131691AA	06/18/2013 18:42	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 18:42	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 17:02	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 19:38	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 19:38	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 19:38	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 19:38	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 19:38	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 19:38	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 19:38	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 19:38	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 19:38	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 19:38	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 19:38	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095872
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 08:20 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-2S SDG#: PEI28-14

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

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

Sample Description: WS-002(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095872
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 08:20 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-2S SDG#: PEI28-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	20.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0159	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00038 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.68	0.0640	0.200	1

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

Sample Description: WS-002(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095872
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 08:20 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-2S SDG#: PEI28-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.16	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131691AA	06/18/2013 19:03	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 19:03	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 17:32	Linda M Hartenstine	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 19:42	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 19:42	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 19:42	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 19:42	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 19:42	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 19:42	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 19:42	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 19:42	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 19:42	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 19:42	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 19:42	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095873
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 08:50 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-5S SDG#: PEI28-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	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)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095873
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 08:50 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-5S SDG#: PEI28-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	21.1	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	0.0180	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.82	0.0640	0.200	1

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

Sample Description: WS-005(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095873
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 08:50 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-5S SDG#: PEI28-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
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	2.21	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0014 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	I131691AA	06/18/2013 19:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 19:24	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 21:03	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 19:46	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 19:46	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 19:46	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 19:46	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 19:46	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 19:46	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 19:46	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 19:46	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 19:46	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 19:46	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 19:46	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-001(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095874
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 09:30 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-1S SDG#: PEI28-16

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

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

Sample Description: WS-001(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095874
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 09:30 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-1S SDG#: PEI28-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	19.9	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	0.0159	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.48	0.0640	0.200	1

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

Sample Description: WS-001(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095874
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 09:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-1S SDG#: PEI28-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
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	2.13	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131691AA	06/18/2013 19:44	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 19:44	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 21:32	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 19:50	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 19:50	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 19:50	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 19:50	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 19:50	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 19:50	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 19:50	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 19:50	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 19:50	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 19:50	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 19:50	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095875
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 09:40 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-10 SDG#: PEI28-17

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

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

Sample Description: WS-001(0.5-1.0)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095875
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 09:40 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-10 SDG#: PEI28-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	20.3	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	0.0189	0.00033	0.0050	1

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

Sample Description: WS-001(0.5-1.0)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095875
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 09:40 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-10 SDG#: PEI28-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	0.00041 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.54	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.17	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131691AA	06/18/2013 20:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 20:05	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 22:02	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 20:02	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 20:02	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 20:02	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 20:02	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 20:02	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 20:02	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 20:02	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 20:02	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 20:02	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 20:02	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 20:02	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-004(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095876
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:00 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-4S SDG#: PEI28-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	3.1 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-004(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095876
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:00 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-4S SDG#: PEI28-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.6	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	0.022 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	0.015 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	0.024 J	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.016 J	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		
06256	Total Hardness as CaCO3	471-34-1	20.4	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	0.0563	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00039 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.67	0.0640	0.200	1

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

Sample Description: WS-004(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095876
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-4S SDG#: PEI28-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0031 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0172	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.11	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0036 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	0.0045 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	I131691AA	06/18/2013 20:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 20:26	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 22:31	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 20:06	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 20:06	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 20:06	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 20:06	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 20:06	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 20:06	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 20:06	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 20:06	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 20:06	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 20:06	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 20:06	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095877
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:10 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-40 SDG#: PEI28-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	4.2 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	1.0 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	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-004(0.5-1.0)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095877
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:10 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-40 SDG#: PEI28-19

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	9.6	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	0.014 J	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.014 J	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.020 J	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.017 J	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.016 J	0.010	0.052	1
08357	Chrysene	218-01-9	0.030 J	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.026 J	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.011 J	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.023 J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.020 J	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.029 J	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	32.4	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	0.165	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0011 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.37	0.0640	0.200	1

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

Sample Description: WS-004(0.5-1.0)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095877
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:10 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-40 SDG#: PEI28-19

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	0.0213	0.0011	0.0150	1
07055	Lead	7439-92-1	0.143	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.41	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0182	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	0.0276	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000075 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	I131691AA	06/18/2013 20:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 20:47	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAB026	06/22/2013 23:00	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13169WAB026	06/18/2013 17:00	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 20:10	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 20:10	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 20:10	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 20:10	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 20:10	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 20:10	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 20:10	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 20:10	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 20:10	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 20:10	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 20:10	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095878
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:30 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-7S SDG#: PEI28-20BKG

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	6.3	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	1.0 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	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-007(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095878
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:30 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-7S SDG#: PEI28-20BKG

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	0.4 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	0.022 J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.022 J	0.010	0.051	1
08357	Anthracene	120-12-7	0.040 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.067	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.082	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.11	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.041 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.050 J	0.010	0.051	1
08357	Chrysene	218-01-9	0.22	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.012 J	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.31	0.010	0.051	1
08357	Fluorene	86-73-7	0.023 J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.040 J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.028 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.025 J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.12	0.031	0.051	1
08357	Pyrene	129-00-0	0.26	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	25.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.205	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00046 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.15	0.0640	0.200	1

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

Sample Description: WS-007(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095878
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-7S SDG#: PEI28-20BKG

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	0.0039 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0116 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.49	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0051 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0014 J	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0065	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	I131691AA	06/18/2013 14:52	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 14:52	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/22/2013 23:59	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 18:33	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 18:33	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 18:33	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 18:33	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 18:33	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 18:33	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 18:33	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 18:33	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 18:33	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 18:33	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 18:33	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)061613 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095879
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:30 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-7S SDG#: PEI28-20MS

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	45	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.8	0.1	0.5	1
02898	Benzene	71-43-2	5.0	0.1	0.5	1
02898	Bromobenzene	108-86-1	4.6	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.7	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	4.8	0.1	0.5	1
02898	Bromoform	75-25-2	4.8	0.1	0.5	1
02898	Bromomethane	74-83-9	4.8	0.1	0.5	1
02898	2-Butanone	78-93-3	46	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	4.7	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	4.9	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	4.8	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.3	0.1	0.5	1
02898	Chlorobenzene	108-90-7	4.9	0.1	0.5	1
02898	Chloroethane	75-00-3	4.8	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	4.7	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	4.8	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	6.0	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	4.8	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.8	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.6	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	4.7	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	4.7	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	4.8	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.0	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	4.8	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	4.9	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.3	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.8	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.0	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.7	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	5.4	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	4.1	0.1	0.5	1
02898	Ethylbenzene	100-41-4	4.9	0.1	0.5	1
02898	Freon 113	76-13-1	5.3	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.4	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	4.9	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	4.8	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.6	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	22	1.0	5.0	1
02898	Methylene Chloride	75-09-2	4.8	0.2	0.5	1

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

Sample Description: WS-007(Surface)061613 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095879
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:30 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-7S SDG#: PEI28-20MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	4.9	0.1	0.5	1
02898	Styrene	100-42-5	4.8	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	4.9	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.7	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.1	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	30	2.0	5.0	1
02898	Toluene	108-88-3	6.4	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.3	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.5	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	4.7	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.2	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.2	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.6	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	4.8	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	4.9	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.0	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	15	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.99	0.010	0.050	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.050	1
08357	Anthracene	120-12-7	0.98	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	0.86	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	0.86	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	0.83	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	0.52	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	0.89	0.010	0.050	1
08357	Chrysene	218-01-9	0.94	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	0.58	0.010	0.050	1
08357	Fluoranthene	206-44-0	1.0	0.010	0.050	1
08357	Fluorene	86-73-7	1.0	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.59	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	1.0	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	1.0	0.010	0.050	1
08357	Naphthalene	91-20-3	1.0	0.030	0.050	1
08357	Phenanthrene	85-01-8	1.1	0.030	0.050	1
08357	Pyrene	129-00-0	1.1	0.010	0.050	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	39.4	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.156	0.0068	0.0200	1
07046	Barium	7440-39-3	2.17	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0492	0.00036	0.0050	1
01750	Calcium	7440-70-2	8.57	0.0640	0.200	1

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

Sample Description: WS-007(Surface)061613 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095879
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-7S SDG#: PEI28-20MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.205	0.0011	0.0150	1
07055	Lead	7439-92-1	0.162	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.38	0.0606	0.100	1
07061	Nickel	7440-02-0	0.509	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.137	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0531	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.522	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00098	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	I131691AA	06/18/2013 15:13	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 15:13	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 00:29	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 18:45	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 18:45	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 18:45	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 18:45	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 18:45	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 18:45	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 18:45	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 18:45	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 18:45	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 18:45	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 18:45	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)061613 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095880
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:30 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-7S SDG#: PEI28-20MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	37	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.6	0.1	0.5	1
02898	Benzene	71-43-2	4.8	0.1	0.5	1
02898	Bromobenzene	108-86-1	4.3	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.6	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	4.7	0.1	0.5	1
02898	Bromoform	75-25-2	4.6	0.1	0.5	1
02898	Bromomethane	74-83-9	4.7	0.1	0.5	1
02898	2-Butanone	78-93-3	37	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	4.5	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	4.6	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	4.5	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.1	0.1	0.5	1
02898	Chlorobenzene	108-90-7	4.7	0.1	0.5	1
02898	Chloroethane	75-00-3	4.7	0.1	0.5	1
02898	Chloroform	67-66-3	4.9	0.1	0.5	1
02898	Chloromethane	74-87-3	4.3	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	4.5	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	4.5	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.8	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	4.6	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.7	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.5	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	4.5	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	4.5	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	4.5	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.9	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	4.8	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.6	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.2	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	4.8	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	5.6	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	4.8	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.5	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	4.8	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.2	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.8	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.6	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.0	0.1	0.5	1
02898	Ethylbenzene	100-41-4	4.7	0.1	0.5	1
02898	Freon 113	76-13-1	5.1	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.1	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	4.7	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	4.5	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.5	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	21	1.0	5.0	1
02898	Methylene Chloride	75-09-2	4.6	0.2	0.5	1

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

Sample Description: WS-007(Surface)061613 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095880
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-7S SDG#: PEI28-20MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	4.6	0.1	0.5	1
02898	Styrene	100-42-5	4.6	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	4.7	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.4	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	4.9	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	24	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	4.1	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.3	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.0	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	4.6	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.0	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	4.8	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.4	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	4.5	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	4.6	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.8	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	14	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.0	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.051	1
08357	Anthracene	120-12-7	1.0	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.79	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	1.0	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.88	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.52	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.94	0.010	0.051	1
08357	Chrysene	218-01-9	0.87	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.64	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.1	0.010	0.051	1
08357	Fluorene	86-73-7	1.1	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.60	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.010	0.051	1
08357	Naphthalene	91-20-3	1.1	0.031	0.051	1
08357	Phenanthrene	85-01-8	1.2	0.031	0.051	1
08357	Pyrene	129-00-0	0.94	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	41.5	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.157	0.0068	0.0200	1
07046	Barium	7440-39-3	2.33	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0507	0.00036	0.0050	1
01750	Calcium	7440-70-2	8.99	0.0640	0.200	1

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

Sample Description: WS-007(Surface)061613 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095880
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-7S SDG#: PEI28-20MSD

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	0.217	0.0011	0.0150	1
07055	Lead	7439-92-1	0.167	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.63	0.0606	0.100	1
07061	Nickel	7440-02-0	0.520	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.142	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0570	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.548	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0011	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	I131691AA	06/18/2013 15:34	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 15:34	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 00:58	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 18:50	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 18:50	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 18:50	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 18:50	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 18:50	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 18:50	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 18:50	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 18:50	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 18:50	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 18:50	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 18:50	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)061613 DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095881
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:30 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-7S SDG#: PEI28-20DUP

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	26.1	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	0.228	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00056 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.15	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0065 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0161	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.61	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0073 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0017 J	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0094	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	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 18:41	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 18:41	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 18:41	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 18:41	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 18:41	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 18:41	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 18:41	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 18:41	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 18:41	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 18:41	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 18:41	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713002	06/19/2013 07:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713002	06/18/2013 15:15	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095882
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:40 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-70 SDG#: PEI28-21

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	5.3	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	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	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-007(0.5-1.0)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095882
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:40 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-70 SDG#: PEI28-21

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	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	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	0.089	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.23	0.010	0.051	1
08357	Anthracene	120-12-7	0.71	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	1.2	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	1.2	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	1.5	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.44	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.97	0.010	0.051	1
08357	Chrysene	218-01-9	4.6	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.14	0.010	0.051	1
08357	Fluoranthene	206-44-0	4.8	0.010	0.051	1
08357	Fluorene	86-73-7	0.074	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.50	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.034 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.037 J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	1.0	0.030	0.051	1
08357	Pyrene	129-00-0	4.5	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	23.2	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	0.0930	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00066 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.76	0.0640	0.200	1

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

Sample Description: WS-007(0.5-1.0)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095882
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 10:40 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-70 SDG#: PEI28-21

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	0.0080 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0257	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.76	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	I131691AA	06/18/2013 21:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 21:08	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 01:28	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 20:14	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 20:14	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 20:14	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 20:14	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 20:14	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 20:14	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 20:14	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 20:14	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 20:14	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 20:14	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 20:14	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713003	06/19/2013 07:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713003	06/18/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-006(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095883
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 11:00 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-6S SDG#: PEI28-22

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)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095883
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 11:00 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-6S SDG#: PEI28-22

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	0.011 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	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	20.4	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	0.0187	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.58	0.0640	0.200	1

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

Sample Description: WS-006(Surface)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095883
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 11:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-6S SDG#: PEI28-22

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	2.17	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131691AA	06/18/2013 21:29	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 21:29	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 01:57	Holly Berry	1
10470	BNW Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 20:18	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 20:18	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 20:18	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 20:18	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 20:18	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 20:18	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 20:18	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 20:18	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 20:18	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 20:18	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 20:18	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713003	06/19/2013 07:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713003	06/18/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095884
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 11:10 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-60 SDG#: PEI28-23

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)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095884
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 11:10 by TM

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-60 SDG#: PEI28-23

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	19.7	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	0.0176	0.00033	0.0050	1

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

Sample Description: WS-006(0.5-1.0)061613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095884
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013 11:10 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/17/2013 16:36

PO Box 4416

Reported: 06/23/2013 18:55

Houston TX 77210-4416

16-60 SDG#: PEI28-23

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.41	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.10	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131691AA	06/18/2013 21:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 21:49	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 02:27	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131726256011	06/21/2013 10:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131681848005	06/20/2013 20:22	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131681848005	06/20/2013 20:22	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131681848005	06/20/2013 20:22	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131681848005	06/20/2013 20:22	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131681848005	06/20/2013 20:22	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131681848005	06/20/2013 20:22	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131681848005	06/20/2013 20:22	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131681848005	06/20/2013 20:22	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131681848005	06/20/2013 20:22	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131681848005	06/20/2013 20:22	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131681848005	06/20/2013 20:22	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131685713003	06/19/2013 08:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131681848005	06/18/2013 08:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131685713003	06/18/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-TB-74-061613 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095885
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-TB SDG#: PEI28-24TB*

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

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

Sample Description: WS-TB-74-061613 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7095885
LLI Group # 1397668
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/16/2013

ExxonMobil

Submitted: 06/17/2013 16:36

Mobil Pipeline Company

Reported: 06/23/2013 18:55

PO Box 4416

Houston TX 77210-4416

16-TB SDG#: PEI28-24TB*

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	I131691AA	06/18/2013 14:31	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131691AA	06/18/2013 14:31	Jason M Long	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 06/23/13 at 06:55 PM

Group Number: 1397668

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: C131691AA	Sample number(s): 7095859-7095864								
Acetone	N.D.	3.0	5.0	ug/l	116		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	89		61-130		
Benzene	N.D.	0.1	0.5	ug/l	104		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	113		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	106		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	116		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	92		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	106		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	95		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	98		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	114		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	110		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	89		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	107		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	79		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	101		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	104		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	114		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	108		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	106		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	69		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	101		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	106		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	112		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	106		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	110		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	116		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	105		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	101		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	105		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	108		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	99		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	95		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	113		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	95		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: 1397668

Reported: 06/23/13 at 06:55 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	98		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	95		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	93		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	108		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
Styrene	N.D.	0.1	0.5	ug/l	108		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	111		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	100		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	111		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	111		65-131		
Toluene	N.D.	0.1	0.5	ug/l	105		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	79		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	83		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	107		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	107		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	96		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	100		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	85		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	105		80-120		

Batch number: I131691AA

Sample number(s): 7095865-7095880, 7095882-7095885

Acetone	N.D.	3.0	5.0	ug/l	87		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	93		61-130		
Benzene	N.D.	0.1	0.5	ug/l	97		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	95		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	94		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	97		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	101		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	94		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	101		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	97		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	97		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	102		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	93		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	99		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	86		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	98		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	97		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	104		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	101		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	100		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	95		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	99		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	99		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	99		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	76		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	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	101		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	97		80-120		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1397668

Reported: 06/23/13 at 06:55 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	101		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	112		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	99		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	96		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	96		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	101		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	99		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	85		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	97		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	99		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	96		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	97		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	93		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	89		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	95		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Styrene	N.D.	0.1	0.5	ug/l	98		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	98		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	96		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	101		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	105		65-131		
Toluene	N.D.	0.1	0.5	ug/l	97		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	93		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	95		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	99		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	99		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	101		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	98		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	93		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	97		80-120		

Batch number: 13169WAB026

Sample number(s): 7095859-7095877

Acenaphthene	N.D.	0.010	0.050	ug/l	86	97	65-124	12	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	95	107	72-113	11	30
Anthracene	N.D.	0.010	0.050	ug/l	93	102	70-117	9	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	91	93	75-115	2	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	102	106	72-120	4	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	89	97	74-130	8	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	93	102	63-121	10	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	93	99	74-118	7	30
Chrysene	N.D.	0.010	0.050	ug/l	96	103	75-112	7	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	90	98	66-122	9	30
Fluoranthene	N.D.	0.010	0.050	ug/l	93	102	73-116	9	30
Fluorene	N.D.	0.010	0.050	ug/l	90	100	74-115	10	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	90	99	66-122	9	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	92	104	72-114	12	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	90	101	74-119	12	30
Naphthalene	N.D.	0.030	0.050	ug/l	88	100	67-118	13	30
Phenanthrene	N.D.	0.030	0.050	ug/l	89	99	72-109	12	30
Pyrene	N.D.	0.010	0.050	ug/l	95	105	71-116	10	30

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1397668

Reported: 06/23/13 at 06:55 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 13169WAD026	Sample number(s): 7095878-7095880, 7095882-7095884								
Acenaphthene	N.D.	0.010	0.050	ug/l	100		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	113		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	107		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	108		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	95		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	93		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	100		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	102		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	89		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	102		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	101		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	91		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	107		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	105		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	102		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	102		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	103		71-116		
Batch number: 131681848005	Sample number(s): 7095863-7095884								
Arsenic	N.D.	0.0068	0.0200	mg/l	100		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	101		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	100		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	99		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	101		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	100		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	104		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	94		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	104		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	102		90-110		
Batch number: 131681848006	Sample number(s): 7095859-7095862								
Arsenic	N.D.	0.0068	0.0200	mg/l	100		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	103		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	99		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	101		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	102		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	102		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	98		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	105		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	95		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	99		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	99		90-110		
Batch number: 131685713002	Sample number(s): 7095859-7095881								
Mercury	N.D.	0.00007	0.00020	mg/l	90		80-120		
		0							
Batch number: 131685713003	Sample number(s): 7095882-7095884								
Mercury	N.D.	0.00007	0.00020	mg/l	92		80-120		
		0							

*- 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: 06/23/13 at 06:55 PM

Group Number: 1397668

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>BKG MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: C131691AA	Sample number(s): 7095859-7095864 UNSPK: 7095859								
Acetone	106	122	57-163	14	30				
Allyl Chloride	94	93	67-139	1	30				
Benzene	96	105	87-126	9	30				
Bromobenzene	99	113	80-123	14	30				
Bromochloromethane	117	113	82-125	4	30				
Bromodichloromethane	101	113	82-133	12	30				
Bromoform	116	131	60-138	12	30				
Bromomethane	94	95	41-145	1	30				
2-Butanone	111	120	63-146	7	30				
n-Butylbenzene	92	104	83-131	12	30				
sec-Butylbenzene	94	108	84-128	14	30				
tert-Butylbenzene	96	110	84-135	13	30				
Carbon Tetrachloride	109	117	81-148	7	30				
Chlorobenzene	105	119	78-133	12	30				
Chloroethane	93	94	70-139	2	30				
Chloroform	99	111	86-136	11	30				
Chloromethane	80	83	55-152	3	30				
2-Chlorotoluene	96	111	81-120	15	30				
4-Chlorotoluene	98	114	82-119	14	30				
1,2-Dibromo-3-chloropropane	119	128	43-143	7	30				
Dibromochloromethane	109	124	79-125	13	30				
1,2-Dibromoethane	101	118	84-127	16	30				
Dibromomethane	100	112	83-126	11	30				
1,2-Dichlorobenzene	99	115	83-117	14	30				
1,3-Dichlorobenzene	99	114	81-118	14	30				
1,4-Dichlorobenzene	99	114	79-120	14	30				
Dichlorodifluoromethane	71	69	28-136	3	30				
1,1-Dichloroethane	92	101	88-136	9	30				
1,2-Dichloroethane	97	109	82-135	11	30				
1,1-Dichloroethene	104	111	83-150	7	30				
cis-1,2-Dichloroethene	98	108	82-129	9	30				
trans-1,2-Dichloroethene	103	111	88-127	7	30				
Dichlorofluoromethane	120	122	59-176	2	30				
1,2-Dichloropropane	99	111	91-126	12	30				
1,3-Dichloropropane	96	109	80-127	13	30				
2,2-Dichloropropane	99	108	80-134	9	30				
1,1-Dichloropropene	102	111	86-139	8	30				
cis-1,3-Dichloropropene	89	106	74-132	17	30				
trans-1,3-Dichloropropene	93	109	71-128	15	30				
Ethyl ether	89	91	67-127	3	30				
Ethylbenzene	98	111	80-140	13	30				
Freon 113	109	110	87-158	1	30				
Hexachlorobutadiene	93	107	65-128	14	30				
Isopropylbenzene	98	112	81-133	13	30				
p-Isopropyltoluene	93	108	84-124	14	30				
Methyl Tertiary Butyl Ether	85	95	82-132	12	30				
4-Methyl-2-Pentanone	93	109	69-149	15	30				
Methylene Chloride	100	105	84-122	5	30				
n-Propylbenzene	93	107	79-131	14	30				

*- Outside of specification

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

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1397668

Reported: 06/23/13 at 06:55 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 RPD</u> <u>Max</u>
Styrene	104	118	63-151	13	30				
1,1,1,2-Tetrachloroethane	105	121	87-126	14	30				
1,1,2,2-Tetrachloroethane	97	112	75-131	14	30				
Tetrachloroethene	105	116	75-129	11	30				
Tetrahydrofuran	104	112	56-154	8	30				
Toluene	99	111	83-127	12	30				
1,2,3-Trichlorobenzene	76	90	73-125	17	30				
1,2,4-Trichlorobenzene	79	95	77-120	18	30				
1,1,1-Trichloroethane	102	111	85-140	8	30				
1,1,2-Trichloroethane	104	118	85-129	13	30				
Trichloroethene	102	115	85-131	12	30				
Trichlorofluoromethane	103	101	67-161	1	30				
1,2,3-Trichloropropane	101	116	76-120	14	30				
1,2,4-Trimethylbenzene	95	109	87-126	14	30				
1,3,5-Trimethylbenzene	95	109	89-129	14	30				
Vinyl Chloride	88	90	65-151	2	30				
Xylene (Total)	100	114	81-137	13	30				

Batch number: I131691AA

Sample number(s): 7095865-7095880,7095882-7095885 UNSPK: 7095878

Acetone	102	81	57-163	20	30				
Allyl Chloride	96	93	67-139	4	30				
Benzene	99	96	87-126	4	30				
Bromobenzene	91	87	80-123	5	30				
Bromochloromethane	93	92	82-125	1	30				
Bromodichloromethane	96	93	82-133	3	30				
Bromoform	96	93	60-138	3	30				
Bromomethane	96	93	41-145	3	30				
2-Butanone	119	96	63-146	21	30				
n-Butylbenzene	94	89	83-131	6	30				
sec-Butylbenzene	97	92	84-128	6	30				
tert-Butylbenzene	96	90	84-135	6	30				
Carbon Tetrachloride	106	103	81-148	3	30				
Chlorobenzene	98	95	78-133	4	30				
Chloroethane	96	93	70-139	3	30				
Chloroform	100	97	86-136	3	30				
Chloromethane	89	87	55-152	2	30				
2-Chlorotoluene	95	90	81-120	5	30				
4-Chlorotoluene	95	90	82-119	5	30				
1,2-Dibromo-3-chloropropane	119	96	43-143	22	30				
Dibromochloromethane	96	93	79-125	3	30				
1,2-Dibromoethane	96	94	84-127	2	30				
Dibromomethane	93	91	83-126	3	30				
1,2-Dichlorobenzene	95	89	83-117	6	30				
1,3-Dichlorobenzene	95	90	81-118	5	30				
1,4-Dichlorobenzene	95	90	79-120	5	30				
Dichlorodifluoromethane	79	78	28-136	1	30				
1,1-Dichloroethane	99	96	88-136	3	30				
1,2-Dichloroethane	96	93	82-135	3	30				
1,1-Dichloroethene	107	103	83-150	4	30				
cis-1,2-Dichloroethene	99	96	82-129	3	30				
trans-1,2-Dichloroethene	105	102	88-127	3	30				
Dichlorofluoromethane	115	111	59-176	3	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: 06/23/13 at 06:55 PM

Group Number: 1397668

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichloropropane	101	97	91-126	4	30				
1,3-Dichloropropane	93	90	80-127	4	30				
2,2-Dichloropropane	100	97	80-134	3	30				
1,1-Dichloropropene	107	103	86-139	4	30				
cis-1,3-Dichloropropene	99	95	74-132	4	30				
trans-1,3-Dichloropropene	95	92	71-128	3	30				
Ethyl ether	83	80	67-127	3	30				
Ethylbenzene	98	94	80-140	5	30				
Freon 113	106	102	87-158	4	30				
Hexachlorobutadiene	88	81	65-128	8	30				
Isopropylbenzene	99	94	81-133	5	30				
p-Isopropyltoluene	95	89	84-124	6	30				
Methyl Tertiary Butyl Ether	92	90	82-132	2	30				
4-Methyl-2-Pentanone	87	84	69-149	3	30				
Methylene Chloride	95	93	84-122	3	30				
n-Propylbenzene	98	92	79-131	6	30				
Styrene	96	93	63-151	4	30				
1,1,1,2-Tetrachloroethane	97	93	87-126	4	30				
1,1,2,2-Tetrachloroethane	93	88	75-131	6	30				
Tetrachloroethene	102	98	75-129	5	30				
Tetrahydrofuran	119	97	56-154	20	30				
Toluene	121	116	83-127	4	30				
1,2,3-Trichlorobenzene	85	82	73-125	4	30				
1,2,4-Trichlorobenzene	89	85	77-120	5	30				
1,1,1-Trichloroethane	103	100	85-140	4	30				
1,1,2-Trichloroethane	95	92	85-129	3	30				
Trichloroethene	104	100	85-131	4	30				
Trichlorofluoromethane	105	97	67-161	8	30				
1,2,3-Trichloropropane	92	88	76-120	5	30				
1,2,4-Trimethylbenzene	96	90	87-126	6	30				
1,3,5-Trimethylbenzene	97	92	89-129	6	30				
Vinyl Chloride	99	96	65-151	3	30				
Xylene (Total)	98	94	81-137	5	30				

Batch number: 13169WAD026	Sample number(s): 7095878-7095880,7095882-7095884 UNSPK: 7095878								
Acenaphthene	96	99	59-127	4	30				
Acenaphthylene	107	108	33-146	2	30				
Anthracene	94	96	69-119	4	30				
Benzo(a)anthracene	79	71	67-124	8	30				
Benzo(a)pyrene	77	90	64-123	15	30				
Benzo(b)fluoranthene	72	76	61-133	6	30				
Benzo(g,h,i)perylene	47	47	36-138	0	30				
Benzo(k)fluoranthene	83	87	59-128	6	30				
Chrysene	71	63	62-118	8	30				
Dibenz(a,h)anthracene	57	62	32-141	10	30				
Fluoranthene	73	79	65-123	6	30				
Fluorene	102	103	69-124	3	30				
Indeno(1,2,3-cd)pyrene	55	55	29-143	2	30				
1-Methylnaphthalene	97	105	67-117	9	30				
2-Methylnaphthalene	101	105	71-126	6	30				
Naphthalene	100	108	58-131	10	30				
Phenanthrene	102	106	67-117	5	30				

*- Outside of specification

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

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: ExxonMobil
Reported: 06/23/13 at 06:55 PM

Group Number: 1397668

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Pyrene	82	67	59-125	14	30				
Batch number: 131681848005	Sample number(s): 7095863-7095884 UNSPK: 7095878 BKG: 7095878								
Arsenic	104	105	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	98	106	78-118	7	20	0.205	0.228	11	20
Cadmium	98	100	83-116	3	20	0.00046 J	0.00056 J	20 (1)	20
Calcium	60*	71*	81-118	5	20	6.15	6.15	0	20
Chromium	101	106	81-120	5	20	0.0039 J	0.0065 J	49* (1)	20
Lead	100	104	75-125	3	20	0.0116 J	0.0161	32* (1)	20
Magnesium	94	107	75-125	5	20	2.49	2.61	5	20
Nickel	101	103	86-115	2	20	0.0051 J	0.0073 J	36* (1)	20
Selenium	91	95	75-125	4	20	N.D.	N.D.	0 (1)	20
Silver	103	111	75-125	7	20	0.0014 J	0.0017 J	15 (1)	20
Vanadium	103	108	90-111	5	20	0.0065	0.0094	36* (1)	20
Batch number: 131681848006	Sample number(s): 7095859-7095862 UNSPK: 7095861 BKG: 7095861								
Arsenic	101	102	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	102	103	78-118	2	20	0.0347	0.0201	53* (1)	20
Cadmium	99	100	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	102	101	81-118	0	20	5.04	5.10	1	20
Chromium	102	104	81-120	2	20	0.0014 J	0.0012 J	13 (1)	20
Lead	102	103	75-125	1	20	N.D.	N.D.	0 (1)	20
Magnesium	98	99	75-125	0	20	2.17	2.18	1	20
Nickel	104	105	86-115	1	20	0.0016 J	0.0012 J	30* (1)	20
Selenium	97	96	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	98	100	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	99	100	90-111	1	20	0.0016 J	0.0017 J	4 (1)	20
Batch number: 131685713002	Sample number(s): 7095859-7095881 UNSPK: 7095878 BKG: 7095878								
Mercury	98	106	80-120	8	20	N.D.	N.D.	0 (1)	20
Batch number: 131685713003	Sample number(s): 7095882-7095884 UNSPK: 7095884 BKG: 7095884								
Mercury	93	97	80-120	5	20	N.D.	N.D.	0 (1)	20

Surrogate Quality ControlSurrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.Analysis Name: BTEX 25-ml purge
Batch number: C131691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7095859	109	106	97	94
7095860	109	106	98	94
7095861	110	106	97	94
7095862	110	104	97	93
7095863	110	106	97	94
7095864	110	105	98	93

*- 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

Group Number: 1397668

Reported: 06/23/13 at 06:55 PM

Surrogate Quality Control

Blank	109	105	99	95
LCS	106	104	100	100
MS	107	105	100	100
MSD	106	104	101	99

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

Analysis Name: BTEX 25-ml purge

Batch number: I131691AA

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

7095865	100	103	99	99
7095866	98	100	99	97
7095867	100	103	98	98
7095868	99	101	99	98
7095869	100	103	98	99
7095870	99	102	98	98
7095871	99	101	98	98
7095872	99	101	98	98
7095873	99	106	98	98
7095874	98	101	98	97
7095875	99	104	98	98
7095876	98	102	98	97
7095877	98	100	99	97
7095878	101	104	98	99
7095879	100	101	99	100
7095880	101	103	99	100
7095882	98	105	97	97
7095883	97	100	98	97
7095884	98	100	98	97
7095885	99	99	100	97
Blank	99	99	100	99
LCS	100	98	100	100
MS	100	101	99	100
MSD	101	103	99	100

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

Analysis Name: PAHs in waters by SIM

Batch number: 13169WAB026

Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
------------------	--------------------	-------------------------

7095859	87	58*	95
7095860	81	41*	93
7095861	78	54*	84
7095862	90	67	95
7095863	89	64	95
7095864	76	84	95
7095865	68	65	90
7095866	81	84	94
7095867	83	77	94
7095868	89	72	94
7095869	86	67	90
7095870	76	88	91
7095871	90	67	96

*- 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.

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Quality Control Summary

Client Name: ExxonMobil

Group Number: 1397668

Reported: 06/23/13 at 06:55 PM

Surrogate Quality Control

7095872	90	65	95
7095873	89	75	94
7095874	88	65	95
7095875	75	29*	88
7095876	78	90	98
7095877	72	79	95
Blank	88	99	95
LCS	83	91	87
LCSD	89	97	99

Limits: 64-120 62-141 58-134

Analysis Name: PAHs in waters by SIM

Batch number: 13169WAD026

Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
------------------	--------------------	-------------------------

7095878	89	92	102
7095879	82	90	98
7095880	93	93	99
7095882	89	92	100
7095883	83	63	94
7095884	85	61*	94
Blank	86	95	93
LCS	93	99	102
MS	82	90	98
MSD	93	93	99

Limits: 64-120 62-141 58-134

*- Outside of specification

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

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

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

ExxonMobil Analysis Request/Chain of Custody



**Lancaster
Laboratories**

Acct. # 14739 For Eurofins Lancaster Laboratories use only
Group # 1397668 Sample # 7095859-85
Instructions on reverse side correspond with circled numbers.

1043

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks																															
Facility #/SID <u>May flower Pipeline Incident</u>				☐ Sediment ☐ Potable ☐ NPDES ☐ Soil ☐ Water ☐ Oil	☐ Ground ☐ Surface ☐ Air	Preservation Code												Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																	
Site Address <u>May flower, AR</u>						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>H</td><td>N</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>														H	N																														
H	N																																																		
ExxonMobil PM <u>Scott Bushroe</u>				Cost Center/AFE				Total # of Containers <u>VOCs 8260B</u> <u>PAH 8270 SIM</u> <u>PCR Metals + Ni, V, Cr, Mg</u>												SCR#: _____ Data Analysis Questions! Lyndi Mott/ARCADIS																															
Consultant/Office <u>Arcadis- US</u>				Consultant Phone # <u>919-302-6799</u>																																															
Consultant PM <u>Steve Barrick</u>				Sampler <u>Tyler Milburn / Hans Van Aller</u>																																															
2 Sample Identification			3 Collected																																																
	Date	Time	Grab	Composite																																															
WS-003(surface) 061513	6/15/13	0730	X																																																
WS-002(surface) 061513		0750	X																																																
WS-005(surface) 061513		0840	X																																																
WS-001(surface) 061513		0910	X																																																
WS-001(surface) 061513			X																																																
WS-001(0.5-1.0) 061513		0920	X																																																
WS-004(surface) 061513		0930	X																																																
WS-004(0.5-1.0) 061513		0940	X																																																
WS-007(surface) 061513		1020	Y																																																
WS-007(0.5-1.0) 061513		1030	X																																																
WS-006(surface) 061513		1050	X																																																
WS-006(0.5-1.0) 061513		1100	Y																																																
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>H Van Aller</u>				Date <u>6/16/13</u>		Time <u>1700</u>		Received by		Date		Time																																			
Standard <u>5 day</u> 4 day				Relinquished by				Date		Time		Received by		Date		Time																																			
72 hour 48 hour 24 hour				Relinquished by				Date		Time		Received by		Date		Time																																			
8 Data Package (circle if required)				Relinquished by Commercial Carrier				Date		Time		Received by		Date		Time																																			
Type I - Full				Locus EIM (default)				UPS		FedEx		Other <u>Southwest</u>		6/17/13		1630																																			
Type VI (Raw Data)				Other				Temperature Upon Receipt <u>0.5-3.0°C</u>		Custody Seals Intact?		Yes		No																																					
NJ Reduced				Other																																															
Other																																																			

ExxonMobil Analysis Request/Chain of Custody



**Lancaster
Laboratories**

Acct. # 14739 Group # 1397668 Sample # 7095859-85
For Eurofins Lancaster Laboratories use only
Instructions on reverse side correspond with circled numbers.

2 of 3

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks																																	
Facility #/SID <u>Mayflower Pipeline Incident</u>				☐ Sediment ☐ Potable ☐ Ground ☒ Surface ☐ NPDES ☐ Air ☐ Oil ☐ Total # of Containers				Preservation Code												SCR#: _____																																	
Site Address <u>Mayflower, AR</u>								<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>H</td><td>N</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												H	N																																
H	N																																																				
ExxonMobil PM <u>Scott Bushroe</u>								VOCs 8260B PAH 8210 SIM ACDA Metals 1631, 1631G												6 Data Analysis Questions: <u>Lyndi Mott / ARCADIS</u>																																	
Consultant/Office <u>Arcadis-US</u>																																																					
Consultant PM <u>Steve Barrick</u>				Consultant Phone # <u>919-302-6799</u>																																																	
Sampler <u>Tyler Milburn / Hans Van Aler</u>																																																					
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total # of Containers																																												
	Date	Time																																																			
DUP-WS-41-061513	6/15/13	—	X				X		6	X	X	X																																									
WS-003 (surface) 061613	6/16/13	0800	X				X		6	X	X	X																																									
WS-002 (surface) 061613		0820	X				X		6	X	X	X																																									
WS-005 (surface) 061613		0850	X				X		6	X	X	X																																									
WS-001 (surface) 061613		0930	X				X		6	X	X	X																																									
WS-001 (0.5-1.0) 061613		0940	X				X		6	X	X	X																																									
WS-004 (surface) 061613		1000	X				X		6	X	X	X																																									
WS-004 (0.5-1.0) 061613		1010	X				X		6	X	X	X																																									
WS-007 (surface) 061613		1030	X				X		6	X	X	X																																									
WS-007 (0.5-1.0) 061613		1040	X				X		6	X	X	X																																									
WS-006 (surface) 061613		1100	X				X		6	X	X	X																																									
WS-007 (surface) 061613 m/s		1630	X				X		12	X	X	X																																									
										MS / MSD / 12 containers																																											
7 Turnaround Time Requested (TAT) (please circle)										Relinquished by <u>H/Van Aler</u>				Date <u>6/16/13</u>		Time <u>1700</u>		Received by		Date		Time																															
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8 Data Package (circle if required)										Relinquished by Commercial Carrier				Date		Time		Received by		Date		Time																															
Type I - Full										UPS _____ FedEx _____																																											
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NJ Reduced																																																					
Other _____																																																					
										Temperature Upon Receipt <u>0.5-3.0 °C</u>				Custody Seals Intact? <u>Yes</u> No																																							

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

Issued by Dept. 40 Management

7053 0413

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Page 94 of 97

Environmental Sample Administration
Receipt Documentation Log

1397668

Client/Project: Exxon MobilShipping Container Sealed: YES NODate of Receipt: 6/17/13Custody Seal Present * : YES NOTime of Receipt: 1636* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 01Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	0.9	TB	WI	Y	B	
2	↓	1.4	↓	↓	↓	↓	
3	↓	1.8	↓	↓	↓	↓	
4	↓	1.9	↓	↓	↓	↓	
5	↓	1.5	↓	↓	↓	↓	
6	↓	0.5	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 6/17/13 1754

Issued by Dept. 6042 Management

Environmental Sample Administration
Receipt Documentation Log

1397608

Client/Project: ExxonMobilShipping Container Sealed: YES NODate of Receipt: 6/17/13Custody Seal Present * : YES NOTime of Receipt: 1636

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

Source Code: 01Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
<u>7</u>	<u>DT121</u>	<u>3.0</u>	<u>TB</u>	<u>WI</u>	<u>Y</u>	<u>B</u>	
<u>2</u>							
<u>3</u>							
<u>4</u>							
<u>5</u>							
<u>6</u>							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 6/17/13 1754

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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