

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

May 06, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/01/2013

Group Number: 1386610

SDG: PEG93

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LLI)

WS-003(SURFACE)043013 Grab Surface Water	7040490
WS-002(SURFACE)043013 Grab Surface Water	7040491
WS-BKG-001(SURFACE)043013 Grab Surface Water	7040492
WS-005(SURFACE)043013 Grab Surface Water	7040493
WS-008(SURFACE)043013 Grab Surface Water	7040494
WS-001(SURFACE)043013 Grab Surface Water	7040495
WS-001(0.5-1.0)043013 Grab Surface Water	7040496
WS-004(SURFACE)043013 Grab Surface Water	7040497
WS-004(0.5-1.0)043013 Grab Surface Water	7040498
WS-007(SURFACE)043013 Grab Surface Water	7040499
WS-007(0.5-1.0)043013 Grab Surface Water	7040500
WS-006(SURFACE)043013 Grab Surface Water	7040501
WS-006(0.5-1.0)043013 Grab Surface Water	7040502
WS-DUP-18-043013 Grab Surface Water	7040503
WS-TB29-043013 Water	7040504

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

ELECTRONIC ARCADIS

COPY TO

Attn: Stephen Barrick

ELECTRONIC ARCADIS

COPY TO

Attn: Lyndi Mott

ELECTRONIC ExxonMobil

COPY TO

Attn: Scott Bushroe

ELECTRONIC ExxonMobil

COPY TO

Attn: Michael J. Firth

ELECTRONIC ARCADIS
COPY TO

Attn: Emily Leamer

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1386610

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

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

Batch #: G131231AA (Sample number(s): 7040501 UNSPK: P37198)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: 2-Chlorotoluene, 4-Chlorotoluene

Batch #: H131222AA (Sample number(s): 7040490-7040500, 7040502-7040504 UNSPK: 7040490)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: 2-Butanone, 1,2-Dibromo-3-chloropropane

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: Acetone, 2-Butanone, Tetrahydrofuran, 1,2-Dibromo-3-chloropropane

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13121WAB026 (Sample number(s): 7040490-7040503)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7040497, 7040498, 7040499, 7040500

Sample #s: 7040490, 7040491, 7040492, 7040493, 7040494, 7040495, 7040496, 7040498, 7040499, 7040500, 7040501, 7040502, 7040503

The laboratory did not receive sufficient sample volume to perform

the method QC requirement for MS/MSD or MS/DUP analysis.

Sample #s: 7040497

The laboratory did not receive sufficient sample volume to perform

the method QC requirement for MS/MSD or MS/DUP analysis.

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

SW-846 6010B, Metals

Batch #: 131211848001 (Sample number(s): 7040490-7040503 UNSPK: 7040496 BKG:
7040496)

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

Sample Description: WS-003 (SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040490
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 09:55 by AD

ExxonMobil

Submitted: 05/01/2013 08:15

Mobil Pipeline Company

Reported: 05/06/2013 11:04

PO Box 4416

Houston TX 77210-4416

30003 SDG#: PEG93-01

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) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040490
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 09:55 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30003 SDG#: PEG93-01

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.2	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	0.0244	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-003 (SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040490
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 09:55 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30003 SDG#: PEG93-01

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	
01750	Calcium	7440-70-2	3.32	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0012 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.68	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0017 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	H131222AA	05/02/2013 23:30	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131222AA	05/02/2013 23:30	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/03/2013 14:35	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131226256001	05/02/2013 05:28	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131211848001	05/01/2013 22:08	John P Hook	1
07046	Barium	SW-846 6010B	1	131211848001	05/01/2013 22:08	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131211848001	05/01/2013 22:08	John P Hook	1
01750	Calcium	SW-846 6010B	1	131211848001	05/01/2013 22:08	John P Hook	1
07051	Chromium	SW-846 6010B	1	131211848001	05/01/2013 22:08	John P Hook	1
07055	Lead	SW-846 6010B	1	131211848001	05/01/2013 22:08	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131211848001	05/01/2013 22:08	John P Hook	1
07061	Nickel	SW-846 6010B	1	131211848001	05/01/2013 22:08	John P Hook	1
07036	Selenium	SW-846 6010B	1	131211848001	05/01/2013 22:08	John P Hook	1
07066	Silver	SW-846 6010B	1	131211848001	05/01/2013 22:08	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131211848001	05/01/2013 22:08	John P Hook	1
00259	Mercury	SW-846 7470A	1	131215713001	05/02/2013 07:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131211848001	05/01/2013 11:11	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131215713001	05/01/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-002 (SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040491
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 10:25 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30002 SDG#: PEG93-02

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) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040491
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 10:25 by AD

ExxonMobil

Submitted: 05/01/2013 08:15

Mobil Pipeline Company

Reported: 05/06/2013 11:04

PO Box 4416

Houston TX 77210-4416

30002 SDG#: PEG93-02

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	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.6	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	0.0185	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-002 (SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040491
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 10:25 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30002 SDG#: PEG93-02

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	
01750	Calcium	7440-70-2	3.28	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.55	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0013 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	H131222AA	05/03/2013 00:35	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131222AA	05/03/2013 00:35	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/03/2013 15:05	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131226256001	05/02/2013 05:28	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131211848001	05/01/2013 22:12	John P Hook	1
07046	Barium	SW-846 6010B	1	131211848001	05/01/2013 22:12	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131211848001	05/01/2013 22:12	John P Hook	1
01750	Calcium	SW-846 6010B	1	131211848001	05/01/2013 22:12	John P Hook	1
07051	Chromium	SW-846 6010B	1	131211848001	05/01/2013 22:12	John P Hook	1
07055	Lead	SW-846 6010B	1	131211848001	05/01/2013 22:12	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131211848001	05/01/2013 22:12	John P Hook	1
07061	Nickel	SW-846 6010B	1	131211848001	05/01/2013 22:12	John P Hook	1
07036	Selenium	SW-846 6010B	1	131211848001	05/01/2013 22:12	John P Hook	1
07066	Silver	SW-846 6010B	1	131211848001	05/01/2013 22:12	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131211848001	05/01/2013 22:12	John P Hook	1
00259	Mercury	SW-846 7470A	1	131215713001	05/02/2013 07:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131211848001	05/01/2013 11:11	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131215713001	05/01/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-BKG-001(SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040492
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 11:00 by AD

ExxonMobil

Submitted: 05/01/2013 08:15

Mobil Pipeline Company

Reported: 05/06/2013 11:04

PO Box 4416

Houston TX 77210-4416

30BKG SDG#: PEG93-03

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-BKG-001(SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040492
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 11:00 by AD

ExxonMobil

Submitted: 05/01/2013 08:15

Mobil Pipeline Company

Reported: 05/06/2013 11:04

PO Box 4416

Houston TX 77210-4416

30BKG SDG#: PEG93-03

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	27.8	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	0.0388	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-BKG-001(SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040492
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 11:00 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30BKG SDG#: PEG93-03

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	
01750	Calcium	7440-70-2	7.75	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	2.05	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0027 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	H131222AA	05/03/2013 00:56	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131222AA	05/03/2013 00:56	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/03/2013 15:34	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131226256001	05/02/2013 05:28	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131211848001	05/01/2013 22:24	John P Hook	1
07046	Barium	SW-846 6010B	1	131211848001	05/01/2013 22:24	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131211848001	05/01/2013 22:24	John P Hook	1
01750	Calcium	SW-846 6010B	1	131211848001	05/01/2013 22:24	John P Hook	1
07051	Chromium	SW-846 6010B	1	131211848001	05/01/2013 22:24	John P Hook	1
07055	Lead	SW-846 6010B	1	131211848001	05/01/2013 22:24	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131211848001	05/01/2013 22:24	John P Hook	1
07061	Nickel	SW-846 6010B	1	131211848001	05/01/2013 22:24	John P Hook	1
07036	Selenium	SW-846 6010B	1	131211848001	05/01/2013 22:24	John P Hook	1
07066	Silver	SW-846 6010B	1	131211848001	05/01/2013 22:24	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131211848001	05/01/2013 22:24	John P Hook	1
00259	Mercury	SW-846 7470A	1	131215713001	05/02/2013 07:22	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131211848001	05/01/2013 11:11	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131215713001	05/01/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-005(SURFACE)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040493
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 11:20 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30005 SDG#: PEG93-04

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

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

Sample Description: WS-005(SURFACE)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040493
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 11:20 by AD

ExxonMobil

Submitted: 05/01/2013 08:15

Mobil Pipeline Company

Reported: 05/06/2013 11:04

PO Box 4416

Houston TX 77210-4416

30005 SDG#: PEG93-04

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
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.4	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0169	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-005 (SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040493
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 11:20 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30005 SDG#: PEG93-04

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	
01750	Calcium	7440-70-2	3.49	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.63	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	H131222AA	05/03/2013 01:18	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131222AA	05/03/2013 01:18	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/03/2013 16:03	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131226256001	05/02/2013 05:28	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131211848001	05/01/2013 22:28	John P Hook	1
07046	Barium	SW-846 6010B	1	131211848001	05/01/2013 22:28	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131211848001	05/01/2013 22:28	John P Hook	1
01750	Calcium	SW-846 6010B	1	131211848001	05/01/2013 22:28	John P Hook	1
07051	Chromium	SW-846 6010B	1	131211848001	05/01/2013 22:28	John P Hook	1
07055	Lead	SW-846 6010B	1	131211848001	05/01/2013 22:28	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131211848001	05/01/2013 22:28	John P Hook	1
07061	Nickel	SW-846 6010B	1	131211848001	05/01/2013 22:28	John P Hook	1
07036	Selenium	SW-846 6010B	1	131211848001	05/01/2013 22:28	John P Hook	1
07066	Silver	SW-846 6010B	1	131211848001	05/01/2013 22:28	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131211848001	05/01/2013 22:28	John P Hook	1
00259	Mercury	SW-846 7470A	1	131215713001	05/02/2013 07:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131211848001	05/01/2013 11:11	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131215713001	05/01/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-008 (SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040494
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 11:55 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30008 SDG#: PEG93-05

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

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

Sample Description: WS-008 (SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040494
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 11:55 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30008 SDG#: PEG93-05

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	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	0.2 J	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	0.7	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	0.011	0.054	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.054	1
08357	Anthracene	120-12-7	N.D.	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.054	1
08357	Chrysene	218-01-9	N.D.	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.054	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.054	1
08357	Fluorene	86-73-7	0.025 J	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	0.071	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	0.078	0.011	0.054	1
08357	Naphthalene	91-20-3	0.071	0.032	0.054	1
08357	Phenanthrene	85-01-8	0.049 J	0.032	0.054	1
08357	Pyrene	129-00-0	0.017 J	0.011	0.054	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	47.5	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	0.0375	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-008 (SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040494
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 11:55 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30008 SDG#: PEG93-05

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	
01750	Calcium	7440-70-2	11.1	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	4.79	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0039 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	H131222AA	05/03/2013 01:39	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131222AA	05/03/2013 01:39	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/03/2013 16:32	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131226256001	05/02/2013 05:28	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131211848001	05/01/2013 22:33	John P Hook	1
07046	Barium	SW-846 6010B	1	131211848001	05/01/2013 22:33	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131211848001	05/01/2013 22:33	John P Hook	1
01750	Calcium	SW-846 6010B	1	131211848001	05/01/2013 22:33	John P Hook	1
07051	Chromium	SW-846 6010B	1	131211848001	05/01/2013 22:33	John P Hook	1
07055	Lead	SW-846 6010B	1	131211848001	05/01/2013 22:33	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131211848001	05/01/2013 22:33	John P Hook	1
07061	Nickel	SW-846 6010B	1	131211848001	05/01/2013 22:33	John P Hook	1
07036	Selenium	SW-846 6010B	1	131211848001	05/01/2013 22:33	John P Hook	1
07066	Silver	SW-846 6010B	1	131211848001	05/01/2013 22:33	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131211848001	05/01/2013 22:33	John P Hook	1
00259	Mercury	SW-846 7470A	1	131215713001	05/02/2013 07:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131211848001	05/01/2013 11:11	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131215713001	05/01/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-001(SURFACE)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040495
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 13:00 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30011 SDG#: PEG93-06

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

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

Sample Description: WS-001(SURFACE)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040495
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 13:00 by AD

ExxonMobil

Submitted: 05/01/2013 08:15

Mobil Pipeline Company

Reported: 05/06/2013 11:04

PO Box 4416

Houston TX 77210-4416

30011 SDG#: PEG93-06

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	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.011 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	0.012 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	0.013 J	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	0.015 J	0.010	0.051	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	16.5	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	0.0288	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-001(SURFACE)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040495
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 13:00 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30011 SDG#: PEG93-06

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	
01750	Calcium	7440-70-2	3.84	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0023 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0058 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.68	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0024 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	0.0043 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	H131222AA	05/03/2013 02:01	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131222AA	05/03/2013 02:01	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/03/2013 17:01	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131226256001	05/02/2013 05:28	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131211848001	05/01/2013 22:37	John P Hook	1
07046	Barium	SW-846 6010B	1	131211848001	05/01/2013 22:37	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131211848001	05/01/2013 22:37	John P Hook	1
01750	Calcium	SW-846 6010B	1	131211848001	05/01/2013 22:37	John P Hook	1
07051	Chromium	SW-846 6010B	1	131211848001	05/01/2013 22:37	John P Hook	1
07055	Lead	SW-846 6010B	1	131211848001	05/01/2013 22:37	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131211848001	05/01/2013 22:37	John P Hook	1
07061	Nickel	SW-846 6010B	1	131211848001	05/01/2013 22:37	John P Hook	1
07036	Selenium	SW-846 6010B	1	131211848001	05/01/2013 22:37	John P Hook	1
07066	Silver	SW-846 6010B	1	131211848001	05/01/2013 22:37	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131211848001	05/01/2013 22:37	John P Hook	1
00259	Mercury	SW-846 7470A	1	131215713001	05/02/2013 07:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131211848001	05/01/2013 11:11	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131215713001	05/01/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040496
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 13:05 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30012 SDG#: PEG93-07

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

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

Sample Description: WS-001(0.5-1.0)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040496
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 13:05 by AD

ExxonMobil

Submitted: 05/01/2013 08:15

Mobil Pipeline Company

Reported: 05/06/2013 11:04

PO Box 4416

Houston TX 77210-4416

30012 SDG#: PEG93-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	16.1	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	0.0276	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-001(0.5-1.0)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040496
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 13:05 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30012 SDG#: PEG93-07

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	
01750	Calcium	7440-70-2	3.60	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0018 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.74	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	0.0033 J	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	H131222AA	05/03/2013 02:22	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131222AA	05/03/2013 02:22	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/03/2013 17:31	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131226256001	05/02/2013 05:28	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131211848001	05/01/2013 21:43	John P Hook	1
07046	Barium	SW-846 6010B	1	131211848001	05/01/2013 21:43	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131211848001	05/01/2013 21:43	John P Hook	1
01750	Calcium	SW-846 6010B	1	131211848001	05/01/2013 21:43	John P Hook	1
07051	Chromium	SW-846 6010B	1	131211848001	05/01/2013 21:43	John P Hook	1
07055	Lead	SW-846 6010B	1	131211848001	05/01/2013 21:43	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131211848001	05/01/2013 21:43	John P Hook	1
07061	Nickel	SW-846 6010B	1	131211848001	05/01/2013 21:43	John P Hook	1
07036	Selenium	SW-846 6010B	1	131211848001	05/01/2013 21:43	John P Hook	1
07066	Silver	SW-846 6010B	1	131211848001	05/01/2013 21:43	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131211848001	05/01/2013 21:43	John P Hook	1
00259	Mercury	SW-846 7470A	1	131215713001	05/02/2013 07:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131211848001	05/01/2013 11:11	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131215713001	05/01/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-004(SURFACE)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040497
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 13:45 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30041 SDG#: PEG93-08

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	6.9	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)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040497
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 13:45 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30041 SDG#: PEG93-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.011 J	0.010	0.052	1

The laboratory did not receive sufficient sample volume to perform

the method QC requirement for MS/MSD or MS/DUP analysis.

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	39.0	0.064	0.20

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

Sample Description: WS-004 (SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040497
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 13:45 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30041 SDG#: PEG93-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0087 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.205	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00042 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.44	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0271	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0244	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.96	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0218	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0400	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000071 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	H131222AA	05/03/2013 02:44	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131222AA	05/03/2013 02:44	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/03/2013 18:00	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131226256001	05/02/2013 05:28	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131211848001	05/01/2013 22:41	John P Hook	1
07046	Barium	SW-846 6010B	1	131211848001	05/01/2013 22:41	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131211848001	05/01/2013 22:41	John P Hook	1
01750	Calcium	SW-846 6010B	1	131211848001	05/01/2013 22:41	John P Hook	1
07051	Chromium	SW-846 6010B	1	131211848001	05/01/2013 22:41	John P Hook	1
07055	Lead	SW-846 6010B	1	131211848001	05/01/2013 22:41	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131211848001	05/01/2013 22:41	John P Hook	1
07061	Nickel	SW-846 6010B	1	131211848001	05/01/2013 22:41	John P Hook	1
07036	Selenium	SW-846 6010B	1	131211848001	05/01/2013 22:41	John P Hook	1
07066	Silver	SW-846 6010B	1	131211848001	05/01/2013 22:41	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131211848001	05/01/2013 22:41	John P Hook	1
00259	Mercury	SW-846 7470A	1	131215713001	05/02/2013 07:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131211848001	05/01/2013 11:11	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131215713001	05/01/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040498
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 13:50 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30042 SDG#: PEG93-09

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	7.3	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(0.5-1.0)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040498
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 13:50 by AD

ExxonMobil

Submitted: 05/01/2013 08:15

Mobil Pipeline Company

Reported: 05/06/2013 11:04

PO Box 4416

Houston TX 77210-4416

30042 SDG#: PEG93-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	0.013 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	39.0	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	0.215	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00037 J	0.00036	0.0050	1

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

Sample Description: WS-004(0.5-1.0)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040498
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 13:50 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30042 SDG#: PEG93-09

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	
01750	Calcium	7440-70-2	7.47	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0264	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0244	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.95	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0212	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	0.0405	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000084 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	H131222AA	05/03/2013 03:05	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131222AA	05/03/2013 03:05	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/03/2013 18:29	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131226256001	05/02/2013 05:28	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131211848001	05/01/2013 22:45	John P Hook	1
07046	Barium	SW-846 6010B	1	131211848001	05/01/2013 22:45	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131211848001	05/01/2013 22:45	John P Hook	1
01750	Calcium	SW-846 6010B	1	131211848001	05/01/2013 22:45	John P Hook	1
07051	Chromium	SW-846 6010B	1	131211848001	05/01/2013 22:45	John P Hook	1
07055	Lead	SW-846 6010B	1	131211848001	05/01/2013 22:45	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131211848001	05/01/2013 22:45	John P Hook	1
07061	Nickel	SW-846 6010B	1	131211848001	05/01/2013 22:45	John P Hook	1
07036	Selenium	SW-846 6010B	1	131211848001	05/01/2013 22:45	John P Hook	1
07066	Silver	SW-846 6010B	1	131211848001	05/01/2013 22:45	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131211848001	05/01/2013 22:45	John P Hook	1
00259	Mercury	SW-846 7470A	1	131215713001	05/02/2013 07:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131211848001	05/01/2013 11:11	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131215713001	05/01/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-007 (SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040499
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 15:00 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30071 SDG#: PEG93-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	5.2	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) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040499
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 15:00 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30071 SDG#: PEG93-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.057	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.057	1
08357	Anthracene	120-12-7	N.D.	0.011	0.057	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.057	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.057	1
08357	Benzo(b)fluoranthene	205-99-2	0.012 J	0.011	0.057	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.057	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.057	1
08357	Chrysene	218-01-9	0.019 J	0.011	0.057	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.057	1
08357	Fluoranthene	206-44-0	0.073	0.011	0.057	1
08357	Fluorene	86-73-7	N.D.	0.011	0.057	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.057	1
08357	1-Methylnaphthalene	90-12-0	0.021 J	0.011	0.057	1
08357	2-Methylnaphthalene	91-57-6	0.013 J	0.011	0.057	1
08357	Naphthalene	91-20-3	N.D.	0.034	0.057	1
08357	Phenanthrene	85-01-8	N.D.	0.034	0.057	1
08357	Pyrene	129-00-0	0.062	0.011	0.057	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	35.4	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	0.225	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-007 (SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040499
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 15:00 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30071 SDG#: PEG93-10

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	
01750	Calcium	7440-70-2	6.36	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0274	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0266	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.75	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0216	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	0.0405	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00010 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	H131222AA	05/03/2013 03:27	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131222AA	05/03/2013 03:27	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/03/2013 18:58	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131226256001	05/02/2013 05:28	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131211848001	05/01/2013 22:49	John P Hook	1
07046	Barium	SW-846 6010B	1	131211848001	05/01/2013 22:49	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131211848001	05/01/2013 22:49	John P Hook	1
01750	Calcium	SW-846 6010B	1	131211848001	05/01/2013 22:49	John P Hook	1
07051	Chromium	SW-846 6010B	1	131211848001	05/01/2013 22:49	John P Hook	1
07055	Lead	SW-846 6010B	1	131211848001	05/01/2013 22:49	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131211848001	05/01/2013 22:49	John P Hook	1
07061	Nickel	SW-846 6010B	1	131211848001	05/01/2013 22:49	John P Hook	1
07036	Selenium	SW-846 6010B	1	131211848001	05/01/2013 22:49	John P Hook	1
07066	Silver	SW-846 6010B	1	131211848001	05/01/2013 22:49	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131211848001	05/01/2013 22:49	John P Hook	1
00259	Mercury	SW-846 7470A	1	131215713001	05/02/2013 07:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131211848001	05/01/2013 11:11	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131215713001	05/01/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040500
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 15:15 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30072 SDG#: PEG93-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	6.2	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)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040500
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 15:15 by AD

ExxonMobil

Submitted: 05/01/2013 08:15

Mobil Pipeline Company

Reported: 05/06/2013 11:04

PO Box 4416

Houston TX 77210-4416

30072 SDG#: PEG93-11

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	0.1 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	0.012 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.011 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.019 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	0.023 J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.11	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	0.089	0.010	0.051	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	36.8	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0091 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.238	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00045 J	0.00036	0.0050	1

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

Sample Description: WS-007(0.5-1.0)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040500
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 15:15 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30072 SDG#: PEG93-11

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	
01750	Calcium	7440-70-2	6.56	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0278	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0293	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.96	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0232	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	0.0433	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000094 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	H131222AA	05/03/2013 03:48	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131222AA	05/03/2013 03:48	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/03/2013 19:28	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131226256001	05/02/2013 05:28	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131211848001	05/01/2013 22:53	John P Hook	1
07046	Barium	SW-846 6010B	1	131211848001	05/01/2013 22:53	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131211848001	05/01/2013 22:53	John P Hook	1
01750	Calcium	SW-846 6010B	1	131211848001	05/01/2013 22:53	John P Hook	1
07051	Chromium	SW-846 6010B	1	131211848001	05/01/2013 22:53	John P Hook	1
07055	Lead	SW-846 6010B	1	131211848001	05/01/2013 22:53	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131211848001	05/01/2013 22:53	John P Hook	1
07061	Nickel	SW-846 6010B	1	131211848001	05/01/2013 22:53	John P Hook	1
07036	Selenium	SW-846 6010B	1	131211848001	05/01/2013 22:53	John P Hook	1
07066	Silver	SW-846 6010B	1	131211848001	05/01/2013 22:53	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131211848001	05/01/2013 22:53	John P Hook	1
00259	Mercury	SW-846 7470A	1	131215713001	05/02/2013 07:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131211848001	05/01/2013 11:11	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131215713001	05/01/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-006 (SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040501
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 16:30 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30061 SDG#: PEG93-12

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

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

Sample Description: WS-006 (SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040501
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 16:30 by AD

ExxonMobil

Submitted: 05/01/2013 08:15

Mobil Pipeline Company

Reported: 05/06/2013 11:04

PO Box 4416

Houston TX 77210-4416

30061 SDG#: PEG93-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.8	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	0.0531	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-006 (SURFACE) 043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040501
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 16:30 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30061 SDG#: PEG93-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.81	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0034 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.00	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0031 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	0.0051	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	G131231AA	05/03/2013 12:55	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131231AA	05/03/2013 12:55	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/03/2013 19:57	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131226256001	05/02/2013 05:28	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131211848001	05/01/2013 22:57	John P Hook	1
07046	Barium	SW-846 6010B	1	131211848001	05/01/2013 22:57	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131211848001	05/01/2013 22:57	John P Hook	1
01750	Calcium	SW-846 6010B	1	131211848001	05/01/2013 22:57	John P Hook	1
07051	Chromium	SW-846 6010B	1	131211848001	05/01/2013 22:57	John P Hook	1
07055	Lead	SW-846 6010B	1	131211848001	05/01/2013 22:57	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131211848001	05/01/2013 22:57	John P Hook	1
07061	Nickel	SW-846 6010B	1	131211848001	05/01/2013 22:57	John P Hook	1
07036	Selenium	SW-846 6010B	1	131211848001	05/01/2013 22:57	John P Hook	1
07066	Silver	SW-846 6010B	1	131211848001	05/01/2013 22:57	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131211848001	05/01/2013 22:57	John P Hook	1
00259	Mercury	SW-846 7470A	1	131215713001	05/02/2013 07:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131211848001	05/01/2013 11:11	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131215713001	05/01/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040502
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 16:35 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30062 SDG#: PEG93-13

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

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

Sample Description: WS-006(0.5-1.0)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040502
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 16:35 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30062 SDG#: PEG93-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	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	0.012 J	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	21.5	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	0.236	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-006(0.5-1.0)043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040502
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 16:35 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30062 SDG#: PEG93-13

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	
01750	Calcium	7440-70-2	4.39	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0047 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.55	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0041 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	0.0070	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	H131222AA	05/03/2013 04:31	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131222AA	05/03/2013 04:31	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/03/2013 20:26	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131226256001	05/02/2013 05:28	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131211848001	05/01/2013 23:01	John P Hook	1
07046	Barium	SW-846 6010B	1	131211848001	05/01/2013 23:01	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131211848001	05/01/2013 23:01	John P Hook	1
01750	Calcium	SW-846 6010B	1	131211848001	05/01/2013 23:01	John P Hook	1
07051	Chromium	SW-846 6010B	1	131211848001	05/01/2013 23:01	John P Hook	1
07055	Lead	SW-846 6010B	1	131211848001	05/01/2013 23:01	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131211848001	05/01/2013 23:01	John P Hook	1
07061	Nickel	SW-846 6010B	1	131211848001	05/01/2013 23:01	John P Hook	1
07036	Selenium	SW-846 6010B	1	131211848001	05/01/2013 23:01	John P Hook	1
07066	Silver	SW-846 6010B	1	131211848001	05/01/2013 23:01	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131211848001	05/01/2013 23:01	John P Hook	1
00259	Mercury	SW-846 7470A	1	131215713001	05/02/2013 07:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131211848001	05/01/2013 11:11	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131215713001	05/01/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-DUP-18-043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040503
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 by AD

ExxonMobil

Submitted: 05/01/2013 08:15

Mobil Pipeline Company

Reported: 05/06/2013 11:04

PO Box 4416

Houston TX 77210-4416

30D18 SDG#: PEG93-14FD

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	5.6	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.3 J	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	1.0 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	0.1 J	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-DUP-18-043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040503
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30D18 SDG#: PEG93-14FD

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	0.2 J	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	0.8	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.012 J	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	0.011 J	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	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.068	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.071	0.010	0.051	1
08357	Naphthalene	91-20-3	0.067	0.030	0.051	1
08357	Phenanthrene	85-01-8	0.044 J	0.030	0.051	1
08357	Pyrene	129-00-0	0.014 J	0.010	0.051	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	47.2	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	0.0369	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-DUP-18-043013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040503
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/01/2013 08:15

PO Box 4416

Reported: 05/06/2013 11:04

Houston TX 77210-4416

30D18 SDG#: PEG93-14FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	11.0	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0016 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.78	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0043 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	H131222AA	05/03/2013 04:52	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131222AA	05/03/2013 04:52	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/03/2013 20:55	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131226256001	05/02/2013 05:28	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131211848001	05/01/2013 23:13	John P Hook	1
07046	Barium	SW-846 6010B	1	131211848001	05/01/2013 23:13	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131211848001	05/01/2013 23:13	John P Hook	1
01750	Calcium	SW-846 6010B	1	131211848001	05/01/2013 23:13	John P Hook	1
07051	Chromium	SW-846 6010B	1	131211848001	05/01/2013 23:13	John P Hook	1
07055	Lead	SW-846 6010B	1	131211848001	05/01/2013 23:13	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131211848001	05/01/2013 23:13	John P Hook	1
07061	Nickel	SW-846 6010B	1	131211848001	05/01/2013 23:13	John P Hook	1
07036	Selenium	SW-846 6010B	1	131211848001	05/01/2013 23:13	John P Hook	1
07066	Silver	SW-846 6010B	1	131211848001	05/01/2013 23:13	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131211848001	05/01/2013 23:13	John P Hook	1
00259	Mercury	SW-846 7470A	1	131215713001	05/02/2013 07:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131211848001	05/01/2013 11:11	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131215713001	05/01/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-TB29-043013 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040504
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013

ExxonMobil

Submitted: 05/01/2013 08:15

Mobil Pipeline Company

Reported: 05/06/2013 11:04

PO Box 4416

Houston TX 77210-4416

30T29 SDG#: PEG93-15TB*

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-TB29-043013 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7040504
LLI Group # 1386610
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/30/2013

ExxonMobil

Submitted: 05/01/2013 08:15

Mobil Pipeline Company

Reported: 05/06/2013 11:04

PO Box 4416

Houston TX 77210-4416

30T29 SDG#: PEG93-15TB*

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	H131222AA	05/02/2013 22:47	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131222AA	05/02/2013 22:47	Sara E Johnson	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/06/13 at 11:04 AM

Group Number: 1386610

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: G131231AA	Sample number(s): 7040501								
Acetone	N.D.	3.0	5.0	ug/l	99		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	116		61-130		
Benzene	N.D.	0.1	0.5	ug/l	98		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	109		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	101		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	92		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	90		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	93		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	96		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	114		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	112		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	112		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	101		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	91		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	100		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	86		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	116		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	116		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	95		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	93		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	91		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	92		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	110		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	107		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	83		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	99		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	83		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	103		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	103		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	100		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	100		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	92		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	94		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	99		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	95		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	84		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	88		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	95		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	104		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: 1386610

Reported: 05/06/13 at 11:04 AM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Isopropylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	112		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	89		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	80		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	100		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	114		80-120		
Styrene	N.D.	0.1	0.5	ug/l	100		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	100		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	107		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	94		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	104		65-131		
Toluene	N.D.	0.1	0.5	ug/l	101		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	98		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	105		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	96		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	93		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	103		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	88		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	97		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	111		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	112		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	90		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	101		80-120		

Batch number: H131222AA

Sample number(s): 7040490-7040500,7040502-7040504

Acetone	N.D.	3.0	5.0	ug/l	93		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	102		61-130		
Benzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	105		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	100		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	99		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	102		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	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	100		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	104		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	100		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	104		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	101		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	99		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	99		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	95		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	98		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	97		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	104		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	101		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	100		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	101		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	105		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	104		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		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: 1386610

Reported: 05/06/13 at 11:04 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	119		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	106		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	99		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	100		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	101		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	104		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	95		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	98		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	99		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	94		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	99		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	103		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	104		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	106		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
Styrene	N.D.	0.1	0.5	ug/l	101		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	98		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	100		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	99		65-131		
Toluene	N.D.	0.1	0.5	ug/l	98		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	98		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	97		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	104		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	102		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	104		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	101		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	102		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	99		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	102		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	99		80-120		

Batch number: 13121WAB026

Sample number(s): 7040490-7040503

Acenaphthene	N.D.	0.010	0.050	ug/l	98	101	65-124	3	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	102	105	72-113	3	30
Anthracene	N.D.	0.010	0.050	ug/l	99	104	70-117	6	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	101	104	75-115	4	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	98	100	72-120	2	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	109	112	74-130	3	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	99	94	63-121	5	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	103	103	74-118	1	30
Chrysene	N.D.	0.010	0.050	ug/l	102	105	75-112	2	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	93	84	66-122	10	30
Fluoranthene	N.D.	0.010	0.050	ug/l	100	106	73-116	6	30
Fluorene	N.D.	0.010	0.050	ug/l	99	95	74-115	4	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	96	90	66-122	6	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	103	108	72-114	5	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	100	106	74-119	6	30
Naphthalene	N.D.	0.030	0.050	ug/l	98	104	67-118	5	30
Phenanthrene	N.D.	0.030	0.050	ug/l	99	105	72-109	6	30
Pyrene	N.D.	0.010	0.050	ug/l	104	107	71-116	3	30

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1386610

Reported: 05/06/13 at 11:04 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 131211848001	Sample number(s): 7040490-7040503								
Arsenic	N.D.	0.0068	0.0200	mg/l	103		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	104		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	106		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	105		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	104		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	108		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	103		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	109		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	102		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	100		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	106		90-110		

Batch number: 131215713001

Sample number(s): 7040490-7040503

Mercury	N.D.	0.00007	0.00020	mg/l	92		80-120		
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Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: G131231AA	Sample number(s): 7040501 UNSPK: P037198								
Acetone	109	114	57-163	4	30				
Allyl Chloride	123	124	67-139	1	30				
Benzene	100	103	87-126	3	30				
Bromobenzene	107	114	80-123	6	30				
Bromochloromethane	104	104	82-125	0	30				
Bromodichloromethane	92	96	82-133	4	30				
Bromoform	90	98	60-138	8	30				
Bromomethane	96	97	41-145	2	30				
2-Butanone	105	104	63-146	1	30				
n-Butylbenzene	116	122	83-131	5	30				
sec-Butylbenzene	116	121	84-128	5	30				
tert-Butylbenzene	111	122	84-135	9	30				
Carbon Tetrachloride	105	109	81-148	4	30				
Chlorobenzene	102	105	78-133	3	30				
Chloroethane	93	98	70-139	5	30				
Chloroform	98	102	86-136	4	30				
Chloromethane	89	90	55-152	1	30				
2-Chlorotoluene	115	124*	81-120	8	30				
4-Chlorotoluene	115	123*	82-119	7	30				
1,2-Dibromo-3-chloropropane	103	105	43-143	2	30				
Dibromochloromethane	92	96	79-125	4	30				
1,2-Dibromoethane	90	95	84-127	6	30				
Dibromomethane	91	93	83-126	3	30				
1,2-Dichlorobenzene	105	114	83-117	8	30				
1,3-Dichlorobenzene	110	118	81-118	7	30				
1,4-Dichlorobenzene	109	116	79-120	6	30				
Dichlorodifluoromethane	88	85	28-136	4	30				
1,1-Dichloroethane	99	103	88-136	4	30				

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/06/13 at 11:04 AM

Group Number: 1386610

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-Dichloroethane	82	85	82-135	3	30				
1,1-Dichloroethene	108	111	83-150	2	30				
cis-1,2-Dichloroethene	104	108	82-129	3	30				
trans-1,2-Dichloroethene	107	110	88-127	2	30				
Dichlorofluoromethane	104	108	59-176	3	30				
1,2-Dichloropropane	102	104	91-126	2	30				
1,3-Dichloropropane	92	96	80-127	4	30				
2,2-Dichloropropane	96	99	80-134	3	30				
1,1-Dichloropropene	102	106	86-139	4	30				
cis-1,3-Dichloropropene	92	98	74-132	7	30				
trans-1,3-Dichloropropene	83	87	71-128	5	30				
Ethyl ether	90	93	67-127	4	30				
Ethylbenzene	103	107	80-140	3	30				
Freon 113	103	98	87-158	4	30				
Hexachlorobutadiene	110	115	65-128	5	30				
Isopropylbenzene	102	105	81-133	3	30				
p-Isopropyltoluene	112	120	84-124	6	30				
Methyl Tertiary Butyl Ether	88	91	82-132	3	30				
4-Methyl-2-Pentanone	81	88	69-149	8	30				
Methylene Chloride	100	103	84-122	3	30				
n-Propylbenzene	117	124	79-131	6	30				
Styrene	98	100	63-151	2	30				
1,1,1,2-Tetrachloroethane	101	107	87-126	6	30				
1,1,2,2-Tetrachloroethane	106	117	75-131	10	30				
Tetrachloroethene	98	100	75-129	2	30				
Tetrahydrofuran	114	114	56-154	0	30				
Toluene	103	106	83-127	3	30				
1,2,3-Trichlorobenzene	98	106	73-125	7	30				
1,2,4-Trichlorobenzene	105	110	77-120	5	30				
1,1,1-Trichloroethane	100	102	85-140	2	30				
1,1,2-Trichloroethane	94	98	85-129	4	30				
Trichloroethene	107	108	85-131	1	30				
Trichlorofluoromethane	98	95	67-161	3	30				
1,2,3-Trichloropropane	98	109	76-120	10	30				
1,2,4-Trimethylbenzene	111	117	87-126	5	30				
1,3,5-Trimethylbenzene	113	118	89-129	5	30				
Vinyl Chloride	99	99	65-151	0	30				
Xylene (Total)	102	106	81-137	3	30				

Batch number: H131222AA	Sample number(s): 7040490-7040500,7040502-7040504 UNSPK: 7040490								
Acetone	143	99	57-163	36*	30				
Allyl Chloride	108	112	67-139	3	30				
Benzene	105	111	87-126	5	30				
Bromobenzene	98	103	80-123	6	30				
Bromochloromethane	106	111	82-125	4	30				
Bromodichloromethane	101	106	82-133	5	30				
Bromoform	97	102	60-138	6	30				
Bromomethane	98	102	41-145	4	30				
2-Butanone	160*	104	63-146	43*	30				
n-Butylbenzene	101	109	83-131	7	30				
sec-Butylbenzene	103	108	84-128	5	30				
tert-Butylbenzene	100	105	84-135	6	30				

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/06/13 at 11:04 AM

Group Number: 1386610

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
Carbon Tetrachloride	109	115	81-148	6	30				
Chlorobenzene	103	107	78-133	4	30				
Chloroethane	99	103	70-139	4	30				
Chloroform	106	112	86-136	6	30				
Chloromethane	87	92	55-152	5	30				
2-Chlorotoluene	100	106	81-120	5	30				
4-Chlorotoluene	100	105	82-119	5	30				
1,2-Dibromo-3-chloropropane	148*	94	43-143	45*	30				
Dibromochloromethane	98	101	79-125	2	30				
1,2-Dibromoethane	95	101	84-127	6	30				
Dibromomethane	102	106	83-126	4	30				
1,2-Dichlorobenzene	98	106	83-117	8	30				
1,3-Dichlorobenzene	101	107	81-118	6	30				
1,4-Dichlorobenzene	100	105	79-120	6	30				
Dichlorodifluoromethane	70	65	28-136	9	30				
1,1-Dichloroethane	105	113	88-136	7	30				
1,2-Dichloroethane	102	108	82-135	6	30				
1,1-Dichloroethene	111	116	83-150	5	30				
cis-1,2-Dichloroethene	105	111	82-129	5	30				
trans-1,2-Dichloroethene	109	114	88-127	5	30				
Dichlorofluoromethane	112	117	59-176	4	30				
1,2-Dichloropropane	106	111	91-126	5	30				
1,3-Dichloropropane	97	102	80-127	5	30				
2,2-Dichloropropane	107	113	80-134	5	30				
1,1-Dichloropropene	107	113	86-139	5	30				
cis-1,3-Dichloropropene	105	111	74-132	6	30				
trans-1,3-Dichloropropene	94	99	71-128	5	30				
Ethyl ether	96	101	67-127	5	30				
Ethylbenzene	102	107	80-140	5	30				
Freon 113	107	100	87-158	6	30				
Hexachlorobutadiene	100	107	65-128	7	30				
Isopropylbenzene	103	108	81-133	5	30				
p-Isopropyltoluene	104	111	84-124	6	30				
Methyl Tertiary Butyl Ether	99	106	82-132	6	30				
4-Methyl-2-Pentanone	99	106	69-149	8	30				
Methylene Chloride	107	115	84-122	7	30				
n-Propylbenzene	101	106	79-131	5	30				
Styrene	102	107	63-151	5	30				
1,1,1,2-Tetrachloroethane	99	105	87-126	6	30				
1,1,2,2-Tetrachloroethane	94	101	75-131	7	30				
Tetrachloroethene	106	111	75-129	5	30				
Tetrahydrofuran	145	94	56-154	43*	30				
Toluene	102	107	83-127	5	30				
1,2,3-Trichlorobenzene	95	103	73-125	9	30				
1,2,4-Trichlorobenzene	97	104	77-120	7	30				
1,1,1-Trichloroethane	109	116	85-140	6	30				
1,1,2-Trichloroethane	99	104	85-129	4	30				
Trichloroethene	108	114	85-131	6	30				
Trichlorofluoromethane	104	104	67-161	0	30				
1,2,3-Trichloropropane	97	102	76-120	5	30				
1,2,4-Trimethylbenzene	101	106	87-126	5	30				
1,3,5-Trimethylbenzene	101	107	89-129	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 Summary

Client Name: ExxonMobil
Reported: 05/06/13 at 11:04 AM

Group Number: 1386610

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
Vinyl Chloride	96	99	65-151	3	30				
Xylene (Total)	102	108	81-137	5	30				
Batch number: 131211848001 Sample number(s): 7040490-7040503 UNSPK: 7040496 BKG: 7040496									
Arsenic	102	102	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	104	103	78-118	1	20	0.0276	0.0330	18	20
Cadmium	105	105	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	103	103	81-118	0	20	3.60	3.67	2	20
Chromium	105	103	81-120	1	20	0.0018 J	0.0023 J	23* (1)	20
Lead	109	107	75-125	2	20	N.D.	N.D.	0 (1)	20
Magnesium	101	103	75-125	1	20	1.74	1.78	2	20
Nickel	109	108	86-115	1	20	0.0021 J	0.0023 J	9 (1)	20
Selenium	104	102	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	102	99	75-125	3	20	N.D.	N.D.	0 (1)	20
Vanadium	106	105	90-111	1	20	0.0033 J	0.0024 J	31* (1)	20
Batch number: 131215713001 Sample number(s): 7040490-7040503 UNSPK: 7040492 BKG: 7040492									
Mercury	91	90	80-120	2	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

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

Analysis Name: NHDES VOCs 25ml purge
Batch number: G131231AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7040501	96	92	97	94
Blank	96	91	97	93
LCS	96	90	97	94
MS	97	91	97	96
MSD	97	94	97	94
Limits:	77-114	74-113	77-110	78-110

Analysis Name: NHDES VOCs 25ml purge
Batch number: H131222AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7040490	102	101	98	99
7040491	102	102	97	99
7040492	102	102	97	99
7040493	102	102	98	99
7040494	101	100	98	100
7040495	102	101	97	99
7040496	102	101	97	99
7040497	102	102	97	98
7040498	102	101	96	99

*- 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: 1386610

Reported: 05/06/13 at 11:04 AM

Surrogate Quality Control

7040499	102	103	97	99
7040500	102	101	97	99
7040502	102	102	97	99
7040503	102	101	97	100
7040504	102	103	97	99
Blank	102	105	97	99
LCS	101	103	98	101
MS	102	100	98	101
MSD	101	102	97	100

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

Analysis Name: PAHs in waters by SIM

Batch number: 13121WAB026

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

7040490	92	88	86
7040491	90	85	87
7040492	93	98	88
7040493	89	68	88
7040494	95	93	91
7040495	83	75	83
7040496	82	66	72
7040497	65	38*	74
7040498	46*	29*	53*
7040499	55*	40*	62
7040500	52*	32*	60
7040501	80	68	81
7040502	84	88	83
7040503	100	104	94
Blank	90	94	89
LCS	92	100	93
LCSD	96	100	96

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.

For Lancaster Laboratories use only
Acct. # 14739 Group # 1386610 Sample # 7040490-504
Instructions on reverse side correspond with circled numbers.

For Lancaster Laboratories use only
 Group # 1386610 Sample # 7040
 Instructions on reverse side correspond with circled numbers

Pg #1

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Acct. # 14739 Group # 1386610 Sample # 7040490-504
Instructions on reverse side correspond with circled numbers.

For Lancaster Laboratories use only
up # 1386610 Sample # 704
Instructions on reverse side correspond with circled numbers

Pg#2

[illegible]

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Rachel L. Kreamer

A# 14739, Gr. 1386610, LL#s 7040490-504

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Wednesday, May 01, 2013 1:18 PM
To: Rachel L. Kreamer
Cc: Kathy Klinefelter
Subject: FW: Surface Waters received today

Attachments: 20130501130917544.pdf



2013050113091754
4.pdf (2 MB)

Rachel,

Please see the corrected coc attached. The Trip Blank date should be 043013.

Thank you,
Lyndi Mott

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

From: Rachel L. Kreamer [mailto:RKreamer@lancasterlabs.com]
Sent: Wednesday, May 01, 2013 12:13 PM
To: Mott, Lyndi
Cc: Kathy Klinefelter
Subject: Surface Waters received today

Lyndi,

I attached the chains for the surface waters. I wanted to confirm the designation and collection date on the trip blank. Usually the designation matches the collection date on trip blanks. However, this one is called WS-TB29-042913, collection date of 4/30/13. Please let me know if this will be acceptable.

Thanks
Rachel

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

From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Wednesday, May 01, 2013 1:09 PM
To: Rachel L. Kreamer
Subject:

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

Scan Date: 05.01.2013 13:09:17 (-0400)
Queries to: 39Scanner@lancasterlabs.com

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ExxonMobil Analysis Request/Chain of Custody



Lancaster
Laboratories

Acct. # 14739 Group # 1386610 Sample # 7040490-504
For Lancaster Laboratories use only
Instructions on reverse side correspond with circled numbers.

Pg #1

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks	
Preservation Code				Total # of Containers																	
Facility #/SID: <u>Mayflower Pipeline Incident</u> Site Address: <u>Mayflower, AR</u> ExxonMobil PM: <u>Scott Bushore</u> Cost Center/AFE: Consultant/Office: <u>ARCADIS</u> Consultant PM: <u>Steve Barnich</u> Consultant Phone #: <u>914-302-6794</u> Sampler: <u>Aaron Dwyer / Angie Parrinello (134)604-1707</u>				☐ Sediment ☐ Ground ☒ Surface ☐ Potable ☐ NPDES ☐ Air ☐ Soil ☐ Water ☐ Oil				Preservation Codes: H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other												Data analysis requested - Lyndi Mott - ARCADIS	
2 Sample Identification		3 Collected		Grab		Composite															
		Date	Time																		
WS-003 (Surface) 043012		4/30/13	955	X				6	X	X	X										
WS-002 (Surface) 043013			1025					6	X	X	X										
WS-BPLG-001 (Surface) 043013			1100					6	X	X	X										
WS-005 (Surface) 043013			1120					6	X	X	X										
WS-006 (Surface) 043013			1155					6	X	X	X										
WS-001 (Surface) 043013			1300					6	X	X	X										
WS-001 (0.5-1.0) 043013			1305					6	X	X	X										
WS-004 (Surface) 043013			1345					6	X	X	X										
WS-004 (0.5-1.0) 043013			1350					6	X	X	X										
WS-007 (Surface) 043013			1500					6	X	X	X										
WS-007 (0.5-1.0) 043013			1515					6	X	X	X										
WS-006 (Surface) 043013			1630					6	X	X	X										
7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour 24 hour				Relinquished by: <u>Aaron Dwyer</u> Date: <u>4/30/13</u> Time: <u>1730</u> Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____				Received by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____				9									
8 Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other: _____				EDD (circle if required) Locus EIM (default) Other: _____				Relinquished by Commercial Carrier UPS _____ FedEx _____ Other _____				Received by: <u>Delonaka Resli</u> Date: <u>5/1/13</u> Time: <u>0815</u>									
				Temperature Upon Receipt: <u>20-5.3 °C</u>				Custody Seals Intact? <u>Yes</u> No													

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**Lancaster
Laboratories**

Acct. # 14739

For Lancaster Laboratories use only

Group # 1386610

Sample # 7040990-507

Instructions on reverse side correspond with circled numbers

Pg #2

[illegible]

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Environmental Sample Administration
Receipt Documentation Log

1386610

Client/Project: Xom MayflowerShipping Container Sealed: YES NODate of Receipt: 5/1/13Custody Seal Present *: YES NOTime of Receipt: 0815* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: ESUPackage: 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	1396	5.3	ST	WI	Y	B	
2	2737	2.0	TB	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Danesh / 208 Date/Time: 5/1/13 0830

Issued by Dept. 6042 Management

2174.06

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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