

ANALYTICAL RESULTS

Prepared by:

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Prepared for:

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

May 28, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/16/2013

Group Number: 1390312

SDG: PEH55

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
WS-003(Surface)051513 Grab Surface Water	7058152
WS-002(Surface)051513 Grab Surface Water	7058153
WS-BKG-002(Surface)051513 Grab Surface Water	7058154
WS-005(Surface)051513 Grab Surface Water	7058155
WS-008(Surface)051513 Grab Surface Water	7058156
WS-008(Surface)051513 MS Grab Surface Water	7058157
WS-008(Surface)051513 MSD Grab Surface Water	7058158
WS-008(Surface)051513 DUP Grab Surface Water	7058159
WS-001(Surface)051513 Grab Surface Water	7058160
WS-001(0.5-1.0)051513 Grab Surface Water	7058161
WS-004(Surface)051513 Grab Surface Water	7058162
WS-004(0.5-1.0)051513 Grab Surface Water	7058163
WS-007(Surface)051513 Grab Surface Water	7058164
WS-007(0.5-1.0)051513 Grab Surface Water	7058165
WS-006(Surface)051513 Grab Surface Water	7058166
WS-006(0.5-1.0)051513 Grab Surface Water	7058167
WS-TB43-051513 Water	7058168

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

ELECTRONIC COPY TO	ARCADIS	Attn: Stephen Barrick
ELECTRONIC COPY TO	ARCADIS	Attn: Lyndi Mott
ELECTRONIC COPY TO	ExxonMobil	Attn: Scott Bushroe

ELECTRONIC ExxonMobil
COPY TO
ELECTRONIC ARCADIS
COPY TO

Attn: Michael J. Firth

Attn: Emily Leamer

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1390312

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

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

Batch #: 13136WAJ026 (Sample number(s): 7058152-7058158, 7058160-7058163, 7058165-7058167 UNSPK: 7058156)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Anthracene, Benzo(a)anthracene, Benzo(a)pyrene

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7058156, 7058157, 7058158, 7058162, 7058163, 7058165, 7058167, MS, MSD

Batch #: 13140WAF026 (Sample number(s): 7058164 UNSPK: 40WFUS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Anthracene, Benzo(a)pyrene

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: Anthracene, Benzo(a)pyrene

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7058164

Sample #s: 7058152, 7058153, 7058154, 7058155, 7058156, 7058157, 7058158, 7058160, 7058161, 7058162, 7058163, 7058165, 7058166

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.

Sample #s: 7058167

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken. 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.

Sample #s: 7058164

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.

REVISED

Sample Description: WS-003 (Surface) 051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058152
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 08:30 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-03 SDG#: PEH55-01

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

REVISED

Sample Description: **WS-003 (Surface) 051513 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7058152**
 LLI Group # **1390312**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 05/15/2013 08:30 by **TM** ExxonMobil
 Submitted: 05/16/2013 09:10 Mobil Pipeline Company
 Reported: 05/28/2013 11:27 PO Box 4416
 Houston TX 77210-4416

15-03 SDG#: PEH55-01

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	0.2 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	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	0.21	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

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.

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	0.0224	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) 051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058152
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 08:30 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-03 SDG#: PEH55-01

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	3.53	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	1.78	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	I131362AA	05/16/2013 23:33	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/16/2013 23:33	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAJ026	05/18/2013 23:25	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13136WAJ026	05/17/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 06:43	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 06:43	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 06:43	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 06:43	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 06:43	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 06:43	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 06:43	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 06:43	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 06:43	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 06:43	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 06:43	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 06:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-002 (Surface) 051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058153
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 09:00 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-02 SDG#: PEH55-02

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) 051513 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7058153**
 LLI Group # **1390312**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 05/15/2013 09:00 by **TM** ExxonMobil
 Submitted: 05/16/2013 09:10 Mobil Pipeline Company
 Reported: 05/28/2013 11:27 PO Box 4416
 Houston TX 77210-4416

15-02 SDG#: PEH55-02

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	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	0.22	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.						
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	15.6	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	0.0219	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) 051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058153
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 09:00 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-02 SDG#: PEH55-02

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	3.45	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	1.68	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0016 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	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	I131362AA	05/16/2013 23:54	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/16/2013 23:54	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAJ026	05/18/2013 23:53	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13136WAJ026	05/17/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 06:55	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 06:55	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 06:55	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 06:55	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 06:55	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 06:55	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 06:55	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 06:55	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 06:55	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 06:55	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 06:55	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 06:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

Sample Description: **WS-BKG-002 (Surface) 051513 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7058154**
 LLI Group # **1390312**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 05/15/2013 09:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/16/2013 09:10

PO Box 4416

Reported: 05/28/2013 11:27

Houston TX 77210-4416

15BK2 SDG#: PEH55-03

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

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

Sample Description: **WS-BKG-002 (Surface) 051513 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7058154**
 LLI Group # **1390312**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 05/15/2013 09:30 by **TM** ExxonMobil
 Submitted: 05/16/2013 09:10 Mobil Pipeline Company
 Reported: 05/28/2013 11:27 PO Box 4416
 Houston TX 77210-4416

15BK2 SDG#: PEH55-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.012	0.062	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.062	1
08357	Anthracene	120-12-7	N.D.	0.012	0.062	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.062	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.062	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.062	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.062	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.062	1
08357	Chrysene	218-01-9	N.D.	0.012	0.062	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.062	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.062	1
08357	Fluorene	86-73-7	N.D.	0.012	0.062	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.062	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.062	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.062	1
08357	Naphthalene	91-20-3	0.13	0.037	0.062	1
08357	Phenanthrene	85-01-8	N.D.	0.037	0.062	1
08357	Pyrene	129-00-0	N.D.	0.012	0.062	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	40.1	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	0.0678	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-002 (Surface) 051513 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7058154**
 LLI Group # **1390312**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 05/15/2013 09:30 by **TM** ExxonMobil
 Submitted: 05/16/2013 09:10 Mobil Pipeline Company
 Reported: 05/28/2013 11:27 PO Box 4416
 Houston TX 77210-4416

15BK2 SDG#: PEH55-03

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	9.27	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0087 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0065 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.12	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0068 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	0.0140	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	I131362AA	05/17/2013 00:15	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/17/2013 00:15	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAJ026	05/19/2013 00:22	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13136WAJ026	05/17/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 06:59	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 06:59	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 06:59	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 06:59	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 06:59	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 06:59	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 06:59	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 06:59	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 06:59	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 06:59	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 06:59	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 06:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-005 (Surface) 051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058155
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 10:00 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-05 SDG#: PEH55-04

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) 051513 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7058155**
 LLI Group # **1390312**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 05/15/2013 10:00 by **TM** ExxonMobil
 Submitted: 05/16/2013 09:10 Mobil Pipeline Company
 Reported: 05/28/2013 11:27 PO Box 4416
 Houston TX 77210-4416

15-05 SDG#: PEH55-04

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	
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	0.013 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.043 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	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	0.022 J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	0.12	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
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.						
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	17.1	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	0.0167	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) 051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058155
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 10:00 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-05 SDG#: PEH55-04

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	3.93	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	1.76	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0020 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	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	I131362AA	05/17/2013 00:36	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/17/2013 00:36	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAJ026	05/19/2013 00:50	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13136WAJ026	05/17/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 07:03	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 07:03	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 07:03	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 07:03	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 07:03	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 07:03	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 07:03	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 07:03	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 07:03	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 07:03	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 07:03	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 06:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-008 (Surface) 051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058156
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 10:30 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-08 SDG#: PEH55-05BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	Acetone	67-64-1	5.7	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.6	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	0.2 J	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

REVISED

Sample Description: **WS-008 (Surface) 051513 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7058156**
 LLI Group # **1390312**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 05/15/2013 10:30 by **TM** ExxonMobil
 Submitted: 05/16/2013 09:10 Mobil Pipeline Company
 Reported: 05/28/2013 11:27 PO Box 4416
 Houston TX 77210-4416

15-08 SDG#: PEH55-05BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.7	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.5 J	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	0.013 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.014 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	0.020 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.011 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	0.037 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	0.029 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	0.24	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	0.045 J	0.010	0.051	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	98.5	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	0.115	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) 051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058156
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 10:30 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-08 SDG#: PEH55-05BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	19.9	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0179	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	11.8	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0137	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	0.0199	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	I131362AA	05/17/2013 00:57	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/17/2013 00:57	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAJ026	05/18/2013 21:59	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13136WAJ026	05/17/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 06:17	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 06:17	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 06:17	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 06:17	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 06:17	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 06:17	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 06:17	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 06:17	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 06:17	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 06:17	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 06:17	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 06:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-008 (Surface) 051513 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058157
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 10:30 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-08 SDG#: PEH55-05MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	Acetone	67-64-1	41	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.6	0.1	0.5	1
02898	Benzene	71-43-2	6.3	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.7	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.5	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.7	0.1	0.5	1
02898	Bromoform	75-25-2	5.5	0.1	0.5	1
02898	Bromomethane	74-83-9	4.9	0.1	0.5	1
02898	2-Butanone	78-93-3	46	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.8	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	6.1	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	6.0	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.9	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.9	0.1	0.5	1
02898	Chloroethane	75-00-3	5.2	0.1	0.5	1
02898	Chloroform	67-66-3	5.8	0.1	0.5	1
02898	Chloromethane	74-87-3	4.5	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.8	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.8	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.7	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.6	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	6.0	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.7	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.7	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.9	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.8	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.5	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.7	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.7	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.2	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.7	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.9	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.3	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.9	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.9	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.3	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.9	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.4	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	5.1	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.1	0.1	0.5	1
02898	Ethylbenzene	100-41-4	6.0	0.1	0.5	1
02898	Freon 113	76-13-1	5.8	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.5	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	6.1	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	6.1	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	5.4	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	29	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.7	0.2	0.5	1

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

Sample Description: **WS-008 (Surface) 051513 MS Grab Surface Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7058157**
 LLI Group # **1390312**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 05/15/2013 10:30 by **TM** ExxonMobil
 Submitted: 05/16/2013 09:10 Mobil Pipeline Company
 Reported: 05/28/2013 11:27 PO Box 4416
 Houston TX 77210-4416

15-08 SDG#: PEH55-05MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	n-Propylbenzene	103-65-1	6.0	0.1	0.5	1
02898	Styrene	100-42-5	6.2	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.7	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.8	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	6.0	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	30	2.0	5.0	1
02898	Toluene	108-88-3	6.6	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.3	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.6	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.7	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	6.1	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.9	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.0	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.6	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.9	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.9	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.0	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	18	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.90	0.010	0.052	1
08357	Acenaphthylene	208-96-8	0.96	0.010	0.052	1
08357	Anthracene	120-12-7	0.44	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.74	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.21	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.77	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.51	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.70	0.010	0.052	1
08357	Chrysene	218-01-9	0.77	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.59	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.84	0.010	0.052	1
08357	Fluorene	86-73-7	0.92	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.61	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	1.0	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	1.0	0.010	0.052	1
08357	Naphthalene	91-20-3	1.4	0.031	0.052	1
08357	Phenanthrene	85-01-8	1.0	0.031	0.052	1
08357	Pyrene	129-00-0	0.73	0.010	0.052	1
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	114	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.159	0.0068	0.0200	1
07046	Barium	7440-39-3	2.20	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0509	0.00036	0.0050	1

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

Sample Description: WS-008 (Surface) 051513 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058157
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 10:30 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-08 SDG#: PEH55-05MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	23.5	0.0640	0.200	1
07051	Chromium	7440-47-3	0.225	0.0011	0.0150	1
07055	Lead	7439-92-1	0.159	0.0051	0.0150	1
01757	Magnesium	7439-95-4	13.5	0.0606	0.100	1
07061	Nickel	7440-02-0	0.539	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.151	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0480	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.551	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00093	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	I131362AA	05/17/2013 01:18	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/17/2013 01:18	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAJ026	05/18/2013 22:28	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13136WAJ026	05/17/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 06:28	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 06:28	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 06:28	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 06:28	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 06:28	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 06:28	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 06:28	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 06:28	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 06:28	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 06:28	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 06:28	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 06:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-008 (Surface) 051513 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058158
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 10:30 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-08 SDG#: PEH55-05MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	Acetone	67-64-1	42	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.5	0.1	0.5	1
02898	Benzene	71-43-2	6.1	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.6	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.4	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.6	0.1	0.5	1
02898	Bromoform	75-25-2	5.4	0.1	0.5	1
02898	Bromomethane	74-83-9	4.8	0.1	0.5	1
02898	2-Butanone	78-93-3	47	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.6	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.8	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.8	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.7	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.7	0.1	0.5	1
02898	Chloroethane	75-00-3	5.0	0.1	0.5	1
02898	Chloroform	67-66-3	5.6	0.1	0.5	1
02898	Chloromethane	74-87-3	4.4	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.7	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.7	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.8	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.5	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.9	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.6	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.5	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.7	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.6	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.3	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.6	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.5	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.0	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.6	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.7	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.3	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.7	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.8	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.3	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.7	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.3	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	5.1	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.0	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.9	0.1	0.5	1
02898	Freon 113	76-13-1	5.7	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.1	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.9	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.8	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	5.4	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	29	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.6	0.2	0.5	1

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

Sample Description: **WS-008 (Surface) 051513 MSD Grab Surface Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7058158**
 LLI Group # **1390312**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 05/15/2013 10:30 by **TM** ExxonMobil
 Submitted: 05/16/2013 09:10 Mobil Pipeline Company
 Reported: 05/28/2013 11:27 PO Box 4416
 Houston TX 77210-4416

15-08 SDG#: PEH55-05MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
			ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.8	0.1	0.5	1
02898	Styrene	100-42-5	6.1	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.6	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.7	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.8	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	31	2.0	5.0	1
02898	Toluene	108-88-3	6.5	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.3	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.5	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.6	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.9	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.7	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	4.9	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.5	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.8	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.8	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.8	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	18	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.88	0.010	0.052	1
08357	Acenaphthylene	208-96-8	0.94	0.010	0.052	1
08357	Anthracene	120-12-7	0.40	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.70	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.21	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.74	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.47	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.67	0.010	0.052	1
08357	Chrysene	218-01-9	0.73	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.56	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.84	0.010	0.052	1
08357	Fluorene	86-73-7	0.91	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.57	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	1.0	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.99	0.010	0.052	1
08357	Naphthalene	91-20-3	1.4	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.99	0.031	0.052	1
08357	Pyrene	129-00-0	0.69	0.010	0.052	1
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.						
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	116	0.064	0.20	1
SW-846 6010B						
			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.157	0.0068	0.0200	1
07046	Barium	7440-39-3	2.18	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0505	0.00036	0.0050	1

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

Sample Description: WS-008 (Surface) 051513 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058158
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 10:30 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-08 SDG#: PEH55-05MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	23.8	0.0640	0.200	1
07051	Chromium	7440-47-3	0.226	0.0011	0.0150	1
07055	Lead	7439-92-1	0.157	0.0051	0.0150	1
01757	Magnesium	7439-95-4	13.7	0.0606	0.100	1
07061	Nickel	7440-02-0	0.537	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.147	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0477	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.544	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00092	0.000070	0.00020	1

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	I131362AA	05/17/2013 01:39	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/17/2013 01:39	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAJ026	05/18/2013 22:56	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13136WAJ026	05/17/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 06:32	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 06:32	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 06:32	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 06:32	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 06:32	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 06:32	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 06:32	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 06:32	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 06:32	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 06:32	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 06:32	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 06:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-008 (Surface) 051513 DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058159
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 05/16/2013 09:10

PO Box 4416

Reported: 05/28/2013 11:27

Houston TX 77210-4416

15-08 SDG#: PEH55-05DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals SM 2340 B-1997			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	97.1	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	0.113	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	19.7	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0174	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	11.6	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0128	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	0.0192	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		Analyst	Dilution Factor
					Date	Time		
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013	08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013	06:24	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013	06:24	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013	06:24	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013	06:24	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013	06:24	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013	06:24	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013	06:24	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013	06:24	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013	06:24	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013	06:24	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013	06:24	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013	06:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013	23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013	16:00	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-001(Surface)051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058160
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 11:10 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-11 SDG#: PEH55-06

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

REVISED

Sample Description: WS-001(Surface)051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058160
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 11:10 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-11 SDG#: PEH55-06

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.	0.011	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	0.23	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

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	16.3	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0263	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)051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058160
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 11:10 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-11 SDG#: PEH55-06

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	3.61	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	1.76	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0018 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0023 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	I131362AA	05/17/2013 02:00	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/17/2013 02:00	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAJ026	05/19/2013 01:19	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13136WAJ026	05/17/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 07:07	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 07:07	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 07:07	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 07:07	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 07:07	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 07:07	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 07:07	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 07:07	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 07:07	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 07:07	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 07:07	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 06:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058161
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 11:20 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-12 SDG#: PEH55-07

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)051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058161
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 11:20 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-12 SDG#: PEH55-07

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	0.21	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

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.9	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0261	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)051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058161
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 11:20 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-12 SDG#: PEH55-07

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	3.54	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0015 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.72	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0023 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	0.0018 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	I131362AA	05/17/2013 02:21	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/17/2013 02:21	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAJ026	05/19/2013 01:47	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13136WAJ026	05/17/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 07:10	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 07:10	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 07:10	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 07:10	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 07:10	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 07:10	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 07:10	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 07:10	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 07:10	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 07:10	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 07:10	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 07:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-004(Surface)051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058162
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 11:30 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-41 SDG#: PEH55-08

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

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

Sample Description: **WS-004(Surface)051513 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7058162**
 LLI Group # **1390312**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 05/15/2013 11:30 by **TM** ExxonMobil
 Submitted: 05/16/2013 09:10 Mobil Pipeline Company
 Reported: 05/28/2013 11:27 PO Box 4416
 Houston TX 77210-4416

15-41 SDG#: PEH55-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
			ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.2 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	0.013 J	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	0.016 J	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	0.12	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	0.018 J	0.010	0.050	1
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.						
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	47.4	0.064	0.20	1
SW-846 6010B						
			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0172 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.305	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00066 J	0.00036	0.0050	1

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

Sample Description: WS-004 (Surface) 051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058162
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 11:30 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-41 SDG#: PEH55-08

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	
01750	Calcium	7440-70-2	8.89	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0407	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0356	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.13	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0351	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	0.0550	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	I131362AA	05/17/2013 02:42	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/17/2013 02:42	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAJ026	05/19/2013 02:16	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13136WAJ026	05/17/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 07:14	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 07:14	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 07:14	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 07:14	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 07:14	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 07:14	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 07:14	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 07:14	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 07:14	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 07:14	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 07:14	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 07:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058163
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 11:40 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-42 SDG#: PEH55-09

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	5.4	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)051513 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7058163**
 LLI Group # **1390312**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 05/15/2013 11:40 by **TM** ExxonMobil
 Submitted: 05/16/2013 09:10 Mobil Pipeline Company
 Reported: 05/28/2013 11:27 PO Box 4416
 Houston TX 77210-4416

15-42 SDG#: PEH55-09

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	3.2	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.017 J	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.017 J	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.035 J	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.017 J	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.012 J	0.010	0.052	1
08357	Chrysene	218-01-9	0.032 J	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.031 J	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.016 J	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.014 J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.021 J	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.030 J	0.010	0.052	1
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.						
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	57.0	0.064	0.20	1
SW-846 6010B						
			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0286	0.0068	0.0200	1
07046	Barium	7440-39-3	0.409	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0013 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)051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058163
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 11:40 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-42 SDG#: PEH55-09

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	10.4	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0653	0.0011	0.0150	1
07055	Lead	7439-92-1	0.195	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.54	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0546	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	0.0814	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00012 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131362AA	05/17/2013 03:03	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/17/2013 03:03	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAJ026	05/19/2013 02:44	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13136WAJ026	05/17/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 07:18	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 07:18	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 07:18	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 07:18	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 07:18	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 07:18	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 07:18	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 07:18	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 07:18	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 07:18	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 07:18	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 07:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-007 (Surface) 051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058164
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 12:15 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-71 SDG#: PEH55-10

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

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

REVISED

Sample Description: **WS-007 (Surface) 051513 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7058164**
 LLI Group # **1390312**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 05/15/2013 12:15 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-71 SDG#: PEH55-10

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	0.3 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.013 J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.018 J	0.010	0.051	1
08357	Anthracene	120-12-7	0.040 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.082	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.060	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.26	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.050 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.078	0.010	0.051	1
08357	Chrysene	218-01-9	0.26	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.011 J	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.29	0.010	0.051	1
08357	Fluorene	86-73-7	0.012 J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.070	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.051 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.10	0.010	0.051	1
08357	Naphthalene	91-20-3	0.13	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.066	0.031	0.051	1
08357	Pyrene	129-00-0	0.27	0.010	0.051	1

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	47.5	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0183 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.335	0.00033	0.0050	1

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

Sample Description: WS-007 (Surface) 051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058164
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 12:15 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-71 SDG#: PEH55-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	0.00089 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.58	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0469	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0432	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.94	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0400	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	0.0656	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000075 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131362AA	05/17/2013 03:24	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/17/2013 03:24	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13140WAF026	05/21/2013 16:59	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13140WAF026	05/20/2013 23:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 07:22	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 07:22	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 07:22	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 07:22	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 07:22	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 07:22	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 07:22	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 07:22	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 07:22	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 07:22	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 07:22	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 07:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-007(0.5-1.0)051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058165
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 12:30 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-72 SDG#: PEH55-11

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

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

Sample Description: WS-007(0.5-1.0)051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058165
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 12:30 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-72 SDG#: PEH55-11

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	3.1	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	0.013 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.027 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.020 J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.083	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.018 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.029 J	0.010	0.051	1
08357	Chrysene	218-01-9	0.082	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	0.13	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.023 J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	0.11	0.010	0.051	1
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	51.5	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0197 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.373	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0011 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)051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058165
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 12:30 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-72 SDG#: PEH55-11

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	8.07	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0523	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0618	0.0051	0.0150	1
01757	Magnesium	7439-95-4	7.61	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0446	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	0.0728	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	I131362AA	05/17/2013 03:45	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/17/2013 03:45	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAJ026	05/19/2013 03:41	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13136WAJ026	05/17/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 07:26	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 07:26	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 07:26	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 07:26	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 07:26	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 07:26	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 07:26	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 07:26	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 07:26	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 07:26	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 07:26	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 07:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-006 (Surface) 051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058166
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 12:45 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-61 SDG#: PEH55-12

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) 051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058166
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 12:45 by TM ExxonMobil
Submitted: 05/16/2013 09:10 Mobil Pipeline Company
Reported: 05/28/2013 11:27 PO Box 4416
Houston TX 77210-4416

15-61 SDG#: PEH55-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	0.18	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1
Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	16.0	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	0.0232	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) 051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058166
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 12:45 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-61 SDG#: PEH55-12

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	3.58	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	1.72	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	0.0014 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	I131362AA	05/17/2013 04:05	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/17/2013 04:05	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAJ026	05/19/2013 04:09	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13136WAJ026	05/17/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 07:29	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 07:29	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 07:29	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 07:29	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 07:29	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 07:29	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 07:29	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 07:29	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 07:29	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 07:29	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 07:29	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 07:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058167
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 13:00 by TM

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15-62 SDG#: PEH55-13

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

REVISED

Sample Description: **WS-006(0.5-1.0)051513 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7058167**
 LLI Group # **1390312**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 05/15/2013 13:00 by **TM** ExxonMobil
 Submitted: 05/16/2013 09:10 Mobil Pipeline Company
 Reported: 05/28/2013 11:27 PO Box 4416
 Houston TX 77210-4416

15-62 SDG#: PEH55-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	0.20	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. No further action was taken.

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	16.6	0.064	0.20	1

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

Sample Description: WS-006(0.5-1.0)051513 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058167
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013 13:00 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 05/16/2013 09:10 PO Box 4416
Reported: 05/28/2013 11:27 Houston TX 77210-4416

15-62 SDG#: PEH55-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0258	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.75	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	1.76	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0016 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0020 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	I131362AA	05/17/2013 04:26	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/17/2013 04:26	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13136WAJ026	05/19/2013 04:38	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13136WAJ026	05/17/2013 09:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131376256010	05/17/2013 08:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131361848001	05/17/2013 07:41	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131361848001	05/17/2013 07:41	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131361848001	05/17/2013 07:41	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131361848001	05/17/2013 07:41	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131361848001	05/17/2013 07:41	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131361848001	05/17/2013 07:41	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131361848001	05/17/2013 07:41	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131361848001	05/17/2013 07:41	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131361848001	05/17/2013 07:41	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131361848001	05/17/2013 07:41	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131361848001	05/17/2013 07:41	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131365713001	05/17/2013 07:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131361848001	05/16/2013 23:45	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131365713001	05/16/2013 16:00	Nelli S Markaryan	1

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

REVISED

Sample Description: **WS-TB43-051513 Water**
Mayflower, AR
Pipeline Incident

LLI Sample # **WW 7058168**
 LLI Group # **1390312**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 05/15/2013

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15T43 SDG#: PEH55-14TB*

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

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

REVISED

Sample Description: WS-TB43-051513 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7058168
LLI Group # 1390312
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/15/2013

ExxonMobil

Submitted: 05/16/2013 09:10

Mobil Pipeline Company

Reported: 05/28/2013 11:27

PO Box 4416

Houston TX 77210-4416

15T43 SDG#: PEH55-14TB*

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131362AA	05/16/2013 23:12	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131362AA	05/16/2013 23:12	Kevin A Sposito	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/28/13 at 11:27 AM

Group Number: 1390312

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: I131362AA	Sample number(s): 7058152-7058158,7058160-7058168								
Acetone	N.D.	3.0	5.0	ug/l	99		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	98		61-130		
Benzene	N.D.	0.1	0.5	ug/l	100		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	102		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	103		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	106		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	92		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	115		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	105		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	99		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	94		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	100		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	84		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	103		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	104		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	107		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	104		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	113		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	106		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	106		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	106		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	65		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	102		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	103		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	107		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	102		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	102		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	118		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	107		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	111		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	90		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	100		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	94		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	82		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	98		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	98		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: 1390312

Reported: 05/28/13 at 11:27 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCS D Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	106		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	105		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	110		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	104		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Styrene	N.D.	0.1	0.5	ug/l	112		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	105		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	112		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	103		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	117		65-131		
Toluene	N.D.	0.1	0.5	ug/l	103		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	101		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	102		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	99		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	112		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	101		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	93		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	108		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	105		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	91		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	105		80-120		

Batch number: 13136WAJ026

Sample number(s): 7058152-7058158,7058160-7058163,7058165-7058167

Acenaphthene	N.D.	0.010	0.050	ug/l	98		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	101		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	100		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	97		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	99		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	111		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	99		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	106		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	100		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	98		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	101		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	98		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	98		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	104		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	102		74-119		
Naphthalene	0.037 J	0.030	0.050	ug/l	101		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	98		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	95		71-116		

Batch number: 13140WAF026

Sample number(s): 7058164

Acenaphthene	N.D.	0.010	0.050	ug/l	93		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	100		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	100		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	103		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	96		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	103		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	101		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	108		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	102		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	99		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	98		73-116		

*- 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: 1390312

Reported: 05/28/13 at 11:27 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>
Fluorene	N.D.	0.010	0.050	ug/l	97		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	100		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	102		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	102		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	95		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	93		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	101		71-116		

Batch number: 131361848001

Sample number(s): 7058152-7058167

Arsenic	N.D.	0.0068	0.0200	mg/l	101		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	106		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	104		90-112		
Calcium	0.0816 J	0.0640	0.200	mg/l	103		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	106		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	106		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	101		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	109		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	101		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	96		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	106		90-110		

Batch number: 131365713001

Sample number(s): 7058152-7058167

Mercury	N.D.	0.00007	0.00020	mg/l	94		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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: I131362AA	Sample number(s): 7058152-7058158,7058160-7058168 UNSPK: 7058156								
Acetone	94	97	57-163	3	30				
Allyl Chloride	112	111	67-139	1	30				
Benzene	114	111	87-126	3	30				
Bromobenzene	115	111	80-123	3	30				
Bromochloromethane	109	109	82-125	0	30				
Bromodichloromethane	114	112	82-133	2	30				
Bromoform	111	108	60-138	2	30				
Bromomethane	98	95	41-145	2	30				
2-Butanone	122	124	63-146	2	30				
n-Butylbenzene	116	112	83-131	3	30				
sec-Butylbenzene	122	116	84-128	5	30				
tert-Butylbenzene	119	116	84-135	3	30				
Carbon Tetrachloride	117	114	81-148	3	30				
Chlorobenzene	117	114	78-133	3	30				
Chloroethane	104	100	70-139	3	30				
Chloroform	112	109	86-136	3	30				
Chloromethane	90	88	55-152	2	30				
2-Chlorotoluene	115	113	81-120	2	30				
4-Chlorotoluene	116	113	82-119	2	30				
1,2-Dibromo-3-chloropropane	113	115	43-143	2	30				

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/28/13 at 11:27 AM

Group Number: 1390312

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Dibromochloromethane	113	109	79-125	3	30				
1,2-Dibromoethane	121	118	84-127	3	30				
Dibromomethane	113	111	83-126	2	30				
1,2-Dichlorobenzene	114	111	83-117	3	30				
1,3-Dichlorobenzene	117	113	81-118	3	30				
1,4-Dichlorobenzene	116	113	79-120	3	30				
Dichlorodifluoromethane	69	65	28-136	5	30				
1,1-Dichloroethane	114	113	88-136	2	30				
1,2-Dichloroethane	113	110	82-135	3	30				
1,1-Dichloroethene	123	119	83-150	3	30				
cis-1,2-Dichloroethene	114	112	82-129	1	30				
trans-1,2-Dichloroethene	118	114	88-127	3	30				
Dichlorofluoromethane	126	125	59-176	1	30				
1,2-Dichloropropane	117	114	91-126	3	30				
1,3-Dichloropropane	118	115	80-127	2	30				
2,2-Dichloropropane	106	106	80-134	0	30				
1,1-Dichloropropene	117	114	86-139	3	30				
cis-1,3-Dichloropropene	107	107	74-132	1	30				
trans-1,3-Dichloropropene	103	101	71-128	1	30				
Ethyl ether	82	79	67-127	4	30				
Ethylbenzene	120	117	80-140	3	30				
Freon 113	116	113	87-158	2	30				
Hexachlorobutadiene	110	101	65-128	8	30				
Isopropylbenzene	122	118	81-133	3	30				
p-Isopropyltoluene	121	117	84-124	4	30				
Methyl Tertiary Butyl Ether	107	108	82-132	1	30				
4-Methyl-2-Pentanone	116	115	69-149	1	30				
Methylene Chloride	114	112	84-122	2	30				
n-Propylbenzene	120	115	79-131	4	30				
Styrene	125	121	63-151	3	30				
1,1,1,2-Tetrachloroethane	115	112	87-126	2	30				
1,1,2,2-Tetrachloroethane	116	114	75-131	2	30				
Tetrachloroethene	119	117	75-129	2	30				
Tetrahydrofuran	120	124	56-154	3	30				
Toluene	117	114	83-127	2	30				
1,2,3-Trichlorobenzene	107	106	73-125	1	30				
1,2,4-Trichlorobenzene	112	110	77-120	2	30				
1,1,1-Trichloroethane	114	111	85-140	2	30				
1,1,2-Trichloroethane	122	118	85-129	3	30				
Trichloroethene	117	113	85-131	3	30				
Trichlorofluoromethane	100	98	67-161	3	30				
1,2,3-Trichloropropane	112	110	76-120	2	30				
1,2,4-Trimethylbenzene	118	115	87-126	3	30				
1,3,5-Trimethylbenzene	119	116	89-129	3	30				
Vinyl Chloride	99	96	65-151	3	30				
Xylene (Total)	120	117	81-137	2	30				

Batch number: 13136WAJ026	Sample number(s): 7058152-7058158,7058160-7058163,7058165-7058167 UNSPK: 7058156								
Acenaphthene	86	85	59-127	2	30				
Acenaphthylene	92	90	33-146	2	30				
Anthracene	41*	38*	69-119	10	30				
Benzo(a)anthracene	69	66*	67-124	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: 05/28/13 at 11:27 AM

Group Number: 1390312

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Benzo(a)pyrene	20*	21*	64-123	2	30				
Benzo(b)fluoranthene	72	69	61-133	5	30				
Benzo(g,h,i)perylene	48	44	36-138	10	30				
Benzo(k)fluoranthene	67	64	59-128	5	30				
Chrysene	70	67	62-118	5	30				
Dibenz(a,h)anthracene	57	54	32-141	6	30				
Fluoranthene	78	78	65-123	1	30				
Fluorene	88	87	69-124	2	30				
Indeno(1,2,3-cd)pyrene	58	55	29-143	7	30				
1-Methylnaphthalene	99	99	67-117	1	30				
2-Methylnaphthalene	97	96	71-126	2	30				
Naphthalene	107	114	58-131	5	30				
Phenanthrene	96	96	67-117	1	30				
Pyrene	65	62	59-125	6	30				

Batch number: 13140WAF026 Sample number(s): 7058164 UNSPK: P058156

Acenaphthene	96	97	59-127	3	30				
Acenaphthylene	102	102	33-146	4	30				
Anthracene	28*	42*	69-119	35*	30				
Benzo(a)anthracene	97	98	67-124	4	30				
Benzo(a)pyrene	25*	41*	64-123	43*	30				
Benzo(b)fluoranthene	95	91	61-133	8	30				
Benzo(g,h,i)perylene	55	56	36-138	1	30				
Benzo(k)fluoranthene	96	91	59-128	9	30				
Chrysene	84	81	62-118	8	30				
Dibenz(a,h)anthracene	69	63	32-141	12	30				
Fluoranthene	73	72	65-123	5	30				
Fluorene	100	100	69-124	4	30				
Indeno(1,2,3-cd)pyrene	70	67	29-143	9	30				
1-Methylnaphthalene	107	107	67-117	4	30				
2-Methylnaphthalene	107	107	71-126	4	30				
Naphthalene	120	117	58-131	6	30				
Phenanthrene	97	99	67-117	3	30				
Pyrene	71	75	59-125	1	30				

Batch number: 131361848001 Sample number(s): 7058152-7058167 UNSPK: 7058156 BKG: 7058156

Arsenic	106	105	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	104	103	78-118	1	20	0.115	0.113	2	20
Cadmium	102	101	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	90 (2)	97 (2)	81-118	1	20	19.9	19.7	1	20
Chromium	104	104	81-120	0	20	0.0179	0.0174	3 (1)	20
Lead	106	105	75-125	1	20	N.D.	N.D.	0 (1)	20
Magnesium	85 (2)	91 (2)	75-125	1	20	11.8	11.6	2	20
Nickel	105	105	86-115	0	20	0.0137	0.0128	7 (1)	20
Selenium	101	98	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	96	95	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	106	105	90-111	1	20	0.0199	0.0192	4 (1)	20

Batch number: 131365713001 Sample number(s): 7058152-7058167 UNSPK: 7058156 BKG: 7058156

Mercury	93	92	80-120	0	20	N.D.	N.D.	0 (1)	20
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*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/28/13 at 11:27 AM

Group Number: 1390312

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: I131362AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7058152	100	110	99	98
7058153	100	111	99	98
7058154	100	107	99	98
7058155	100	108	99	96
7058156	99	107	99	98
7058157	98	105	102	99
7058158	99	107	101	100
7058160	99	110	100	98
7058161	100	107	100	97
7058162	99	107	98	97
7058163	100	107	99	98
7058164	100	110	99	98
7058165	99	106	99	97
7058166	100	108	99	97
7058167	100	109	100	96
7058168	99	106	99	97
Blank	99	103	100	97
LCS	99	106	101	100
MS	98	105	102	99
MSD	99	107	101	100
<hr/>				
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13136WAJ026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7058152	101	70	103
7058153	103	77	101
7058154	93	87	90
7058155	101	87	101
7058156	69	48*	89
7058157	79	37*	98
7058158	80	37*	98
7058160	101	84	101
7058161	99	81	98
7058162	49*	44*	67
7058163	41*	38*	57*
7058165	21*	12*	27*
7058166	95	63	97
7058167	84	40*	98
Blank	95	102	99
LCS	97	102	101
MS	79	37*	98
MSD	80	37*	98

*- Outside of specification

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/28/13 at 11:27 AM

Group Number: 1390312

Surrogate Quality Control

Limits: 64-120 62-141 58-134

Analysis Name: PAHs in waters by SIM

Batch number: 13140WAF026

Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
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7058164	72	55*	92
Blank	106	119	112
LCS	97	110	102
MS	77	62	111
MSD	75	67	110

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.

Environmental Sample Administration / 1390312
 Receipt Documentation Log

Client/Project: Mayflower
 Date of Receipt: 5/16/13
 Time of Receipt: 0910
 Source Code: SO

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

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

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	2737	1.2	TB	WI	y	B	
2	↓	1.7	↓	↓	↓	↓	
3	_____						
4	_____						
5	_____						
6	_____						

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Porter 3472 Date/Time: 5/16/13 0955

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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

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