

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

April 10, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 04/09/2013

Group Number: 1381314

SDG: PEG04

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LLI)

WS-003-04062013(SURFACE) Grab Surface Water	7014499
WS-002-04062013(SURFACE) Grab Surface Water	7014500
WS-BKG-001-04062013(SURFACE) Grab Surface Water	7014501
WS-005-04062013(SURFACE) Grab Surface Water	7014502
WS-005-04062013(SURFACE)MS Grab Surface Water	7014503
WS-005-04062013(SURFACE)MSD Grab Surface Water	7014504
WS-005-04062013(SURFACE)DUP Grab Surface Water	7014505
WS-001-04062013(SURFACE) Grab Surface Water	7014506
WS-001-04062013(0.5-1.0) Grab Surface Water	7014507
WS-004-04062013(SURFACE) Grab Surface Water	7014508
WS-004-04062013(0.5-1.0) Grab Surface Water	7014509
WS-007-04062013(SURFACE) Grab Surface Water	7014510
WS-007-04062013(0.5-1.0) Grab Surface Water	7014511
WS-006-04062013(SURFACE) Grab Surface Water	7014512
WS-006-04062013(0.5-1.0) Grab Surface Water	7014513
WS-DUP1-04062013 Grab Surface Water	7014514
TB-WS-02-04062013 Water	7014515

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

ELECTRONIC ARCADIS

COPY TO

Attn: Stephen Barrick

ELECTRONIC ARCADIS

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Attn: Lyndi Mott

ELECTRONIC ExxonMobil

COPY TO

Attn: Scott Bushroe

ELECTRONIC
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ExxonMobil

ExxonMobil Pipeline Company

Attn: Edward Yuen

Attn: Timothy S. Martin

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1381314

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

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

Batch #: I130991AA (Sample number(s): 7014499-7014504, 7014506-7014515 UNSPK: 7014502)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD exceeded the acceptance window indicating a positive bias: 2-Butanone

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13099WAA026 (Sample number(s): 7014499-7014504, 7014506-7014514 UNSPK: 7014502)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7014509

Sample #s: 7014500, 7014506, 7014507, 7014508, 7014511, 7014512, 7014514

Reporting limits were raised due to limited sample volume.

Sample #s: 7014509

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

SW-846 6010B, Metals

Batch #: 130991848004 (Sample number(s): 7014499-7014514 UNSPK: 7014502 BKG: 7014502)

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

Sample Description: WS-003-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014499
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 08:55 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

6-003 SDG#: PEG04-01

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

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

Sample Description: WS-003-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014499
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 08:55 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

6-003 SDG#: PEG04-01

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	0.4 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.1 J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.8	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	13.1	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	0.0174	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	2.93	0.0640	0.200	1

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

Sample Description: WS-003-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014499
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 08:55 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

6-003 SDG#: PEG04-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.40	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I130991AA	04/09/2013 15:37	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 15:37	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/09/2013 18:50	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 04:08	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 22:10	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 22:10	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 22:10	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 22:10	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 22:10	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 22:10	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 22:10	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 04:08	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 22:10	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 22:10	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-002-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014500
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 09:30 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

6-002 SDG#: PEG04-02

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-002-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014500
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 09:30 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

6-002 SDG#: PEG04-02

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Reporting limits were raised due to limited sample volume.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	13.9	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	0.0163	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-002-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014500
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 09:30 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

6-002 SDG#: PEG04-02

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	3.15	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	1.47	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I130991AA	04/09/2013 15:58	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 15:58	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/09/2013 19:18	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 04:12	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 22:13	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 22:13	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 22:13	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 22:13	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 22:13	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 22:13	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 22:13	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 04:12	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 22:13	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 22:13	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-BKG-001-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014501
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 10:15 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

6-BKG SDG#: PEG04-03

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

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

Sample Description: WS-BKG-001-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014501
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 10:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

6-BKG SDG#: PEG04-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.012 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	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	21.4	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0275	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.64	0.0640	0.200	1

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

Sample Description: WS-BKG-001-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014501
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 10:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

6-BKG SDG#: PEG04-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.78	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0013 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I130991AA	04/09/2013 16:20	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 16:20	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/09/2013 19:45	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 04:23	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 22:24	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 22:24	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 22:24	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 22:24	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 22:24	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 22:24	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 22:24	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 04:23	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 22:24	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 22:24	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-005-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014502
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 10:45 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

6-005 SDG#: PEG04-04BKG

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-005-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014502
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 10:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

6-005 SDG#: PEG04-04BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	13.7	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0146	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.05	0.0640	0.200	1

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

Sample Description: WS-005-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014502
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 10:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

6-005 SDG#: PEG04-04BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.47	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I130991AA	04/09/2013 14:34	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 14:34	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/09/2013 20:13	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 03:46	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 21:48	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 21:48	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 21:48	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 21:48	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 21:48	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 21:48	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 21:48	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 03:46	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 21:48	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 21:48	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-005-04062013 (SURFACE)MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014503
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 10:50 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

6-005 SDG#: PEG04-04MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	39	3.0	5.0	1
02898	Allyl Chloride	107-05-1	6.3	0.1	0.5	1
02898	Benzene	71-43-2	5.0	0.1	0.5	1
02898	Bromobenzene	108-86-1	4.3	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.7	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.1	0.1	0.5	1
02898	Bromoform	75-25-2	4.4	0.1	0.5	1
02898	Bromomethane	74-83-9	4.6	0.1	0.5	1
02898	2-Butanone	78-93-3	38	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	4.9	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	4.8	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	4.5	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.5	0.1	0.5	1
02898	Chlorobenzene	108-90-7	4.5	0.1	0.5	1
02898	Chloroethane	75-00-3	5.1	0.1	0.5	1
02898	Chloroform	67-66-3	5.2	0.1	0.5	1
02898	Chloromethane	74-87-3	5.0	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	4.6	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	4.5	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.3	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	4.7	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.2	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.7	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	4.5	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	4.6	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	4.6	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.5	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	5.4	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.2	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	4.8	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.0	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.3	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.4	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.6	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.1	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.4	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.9	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.5	0.1	0.5	1
02898	Ethyl ether	60-29-7	3.9	0.1	0.5	1
02898	Ethylbenzene	100-41-4	4.7	0.1	0.5	1
02898	Freon 113	76-13-1	5.3	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.1	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	4.6	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	4.7	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.5	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	25	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.0	0.2	0.5	1

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

Sample Description: WS-005-04062013 (SURFACE)MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014503
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 10:50 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

6-005 SDG#: PEG04-04MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	4.9	0.1	0.5	1
02898	Styrene	100-42-5	4.3	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	4.6	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.6	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	4.5	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	23	2.0	5.0	1
02898	Toluene	108-88-3	4.6	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	3.9	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.1	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.3	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	4.4	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.0	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.6	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.4	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	4.7	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	4.7	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.1	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	14	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.0	0.010	0.052	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.052	1
08357	Anthracene	120-12-7	1.1	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	1.1	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	1.0	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	1.1	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.99	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.99	0.010	0.052	1
08357	Chrysene	218-01-9	0.98	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.96	0.010	0.052	1
08357	Fluoranthene	206-44-0	1.1	0.010	0.052	1
08357	Fluorene	86-73-7	1.1	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	1.0	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	1.2	0.010	0.052	1
08357	Naphthalene	91-20-3	1.1	0.031	0.052	1
08357	Phenanthrene	85-01-8	1.1	0.031	0.052	1
08357	Pyrene	129-00-0	1.3	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO ₃	471-34-1	32.0	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.160	0.0068	0.0200	1
07046	Barium	7440-39-3	2.04	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0505	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.11	0.0640	0.200	1

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

Sample Description: WS-005-04062013 (SURFACE)MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014503
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 10:50 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

6-005 SDG#: PEG04-04MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.206	0.0011	0.0150	1
07055	Lead	7439-92-1	0.156	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.47	0.0606	0.100	1
07061	Nickel	7440-02-0	0.517	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.148	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0454	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.516	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00098	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I130991AA	04/09/2013 14:55	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 14:55	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/09/2013 20:40	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 03:57	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 21:59	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 21:59	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 21:59	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 21:59	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 21:59	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 21:59	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 21:59	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 03:57	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 21:59	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 21:59	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-005-04062013 (SURFACE)MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014504
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 10:55 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

6-005 SDG#: PEG04-04MSD

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	5.9	0.1	0.5	1
02898	Benzene	71-43-2	5.1	0.1	0.5	1
02898	Bromobenzene	108-86-1	4.6	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.4	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.3	0.1	0.5	1
02898	Bromoform	75-25-2	4.6	0.1	0.5	1
02898	Bromomethane	74-83-9	4.7	0.1	0.5	1
02898	2-Butanone	78-93-3	43	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.1	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.0	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	4.7	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.5	0.1	0.5	1
02898	Chlorobenzene	108-90-7	4.7	0.1	0.5	1
02898	Chloroethane	75-00-3	5.1	0.1	0.5	1
02898	Chloroform	67-66-3	5.3	0.1	0.5	1
02898	Chloromethane	74-87-3	5.1	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	4.8	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	4.8	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.9	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.0	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.5	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.8	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	4.7	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	4.9	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	4.8	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.5	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	5.3	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	4.8	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.0	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.5	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.4	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.9	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.1	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.3	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.2	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.7	0.1	0.5	1
02898	Ethyl ether	60-29-7	3.9	0.1	0.5	1
02898	Ethylbenzene	100-41-4	4.9	0.1	0.5	1
02898	Freon 113	76-13-1	5.3	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.3	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	4.8	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	4.9	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.6	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	27	1.0	5.0	1
02898	Methylene Chloride	75-09-2	4.9	0.2	0.5	1

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

Sample Description: WS-005-04062013 (SURFACE)MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014504
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 10:55 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

6-005 SDG#: PEG04-04MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.2	0.1	0.5	1
02898	Styrene	100-42-5	4.5	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	4.8	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.9	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	4.6	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	25	2.0	5.0	1
02898	Toluene	108-88-3	4.7	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.1	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.3	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.4	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	4.7	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.1	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.5	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.7	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	4.9	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.0	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.2	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	14	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.0	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.051	1
08357	Anthracene	120-12-7	1.0	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	1.0	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.99	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	1.1	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.97	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	1.0	0.010	0.051	1
08357	Chrysene	218-01-9	0.99	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.94	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.1	0.010	0.051	1
08357	Fluorene	86-73-7	1.0	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.99	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.2	0.010	0.051	1
08357	Naphthalene	91-20-3	1.1	0.031	0.051	1
08357	Phenanthrene	85-01-8	1.0	0.031	0.051	1
08357	Pyrene	129-00-0	1.2	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	31.4	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.163	0.0068	0.0200	1
07046	Barium	7440-39-3	2.00	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0500	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.96	0.0640	0.200	1

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

Sample Description: WS-005-04062013 (SURFACE)MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014504
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 10:55 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

6-005 SDG#: PEG04-04MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.205	0.0011	0.0150	1
07055	Lead	7439-92-1	0.150	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.39	0.0606	0.100	1
07061	Nickel	7440-02-0	0.510	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.149	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0459	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.513	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00098	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I130991AA	04/09/2013 15:16	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 15:16	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/09/2013 21:08	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 04:01	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 22:02	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 22:02	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 22:02	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 22:02	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 22:02	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 22:02	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 22:02	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 04:01	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 22:02	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 22:02	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-005-04062013 (SURFACE) DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014505
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 10:45 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

6-005 SDG#: PEG04-04DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	13.4	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0144	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	2.99	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	1.45	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0013 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 03:54	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 21:55	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 21:55	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 21:55	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 21:55	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 21:55	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 21:55	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 21:55	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 03:54	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 21:55	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 21:55	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:22	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-001-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014506
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 13:25 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

60011 SDG#: PEG04-05

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

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

Sample Description: WS-001-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014506
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 13:25 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60011 SDG#: PEG04-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.054	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.054	1
08357	Anthracene	120-12-7	N.D.	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.054	1
08357	Chrysene	218-01-9	N.D.	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.054	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.054	1
08357	Fluorene	86-73-7	N.D.	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.054	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.054	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.054	1
08357	Pyrene	129-00-0	N.D.	0.011	0.054	1
Reporting limits were raised due to limited sample volume.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	12.6	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	0.0173	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-001-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014506
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 13:25 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60011 SDG#: PEG04-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	2.82	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	1.34	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0012 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	I130991AA	04/09/2013 16:41	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 16:41	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/09/2013 21:35	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 04:27	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 22:28	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 22:28	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 22:28	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 22:28	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 22:28	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 22:28	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 22:28	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 04:27	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 22:28	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 22:28	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-001-04062013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014507
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 13:30 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60012 SDG#: PEG04-06

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

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

Sample Description: WS-001-04062013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014507
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 13:30 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60012 SDG#: PEG04-06

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	0.012 J	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Reporting limits were raised due to limited sample volume.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	12.7	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0183	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-001-04062013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014507
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 13:30 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60012 SDG#: PEG04-06

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	2.84	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	1.35	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I130991AA	04/09/2013 17:02	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 17:02	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/09/2013 22:03	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 04:30	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 22:32	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 22:32	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 22:32	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 22:32	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 22:32	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 22:32	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 22:32	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 04:30	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 22:32	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 22:32	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-004-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014508
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 13:45 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

60041 SDG#: PEG04-07

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	0.4 J	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	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-004-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014508
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 13:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60041 SDG#: PEG04-07

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	0.8	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	2.8	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.014 J	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	0.040 J	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	0.12	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.084	0.011	0.053	1
08357	Naphthalene	91-20-3	0.039 J	0.032	0.053	1
08357	Phenanthrene	85-01-8	0.039 J	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Reporting limits were raised due to limited sample volume.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	14.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0258	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-004-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014508
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 13:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60041 SDG#: PEG04-07

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	3.24	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0021 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.46	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0030 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	0.0022 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	I130991AA	04/09/2013 17:23	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 17:23	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/09/2013 22:30	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 04:34	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 22:35	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 22:35	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 22:35	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 22:35	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 22:35	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 22:35	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 22:35	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 04:34	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 22:35	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 22:35	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-004-04062013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014509
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 13:50 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60042 SDG#: PEG04-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.5 J	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	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-004-04062013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014509
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 13:50 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60042 SDG#: PEG04-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	1.0	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	3.5	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.015 J	0.010	0.051	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	0.042 J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.19	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.13	0.010	0.051	1
08357	Naphthalene	91-20-3	0.070	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.037 J	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO ₃	471-34-1	14.0	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0282	0.00033	0.0050	1

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

Sample Description: WS-004-04062013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014509
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 13:50 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60042 SDG#: PEG04-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.25	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0016 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.43	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0026 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0025 J	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I130991AA	04/09/2013 17:44	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 17:44	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/09/2013 22:58	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 04:38	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 22:39	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 22:39	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 22:39	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 22:39	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 22:39	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 22:39	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 22:39	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 04:38	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 22:39	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 22:39	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-007-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014510
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 14:20 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

60071 SDG#: PEG04-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.5 J	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	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-007-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014510
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 14:20 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60071 SDG#: PEG04-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.8	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	3.1	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.020 J	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	0.013 J	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	0.039 J	0.010	0.050	1
08357	Fluorene	86-73-7	0.048 J	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	0.12	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	0.078	0.010	0.050	1
08357	Naphthalene	91-20-3	0.042 J	0.030	0.050	1
08357	Phenanthrene	85-01-8	0.048 J	0.030	0.050	1
08357	Pyrene	129-00-0	0.021 J	0.010	0.050	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.0	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0266	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.13	0.0640	0.200	1

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

Sample Description: WS-007-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014510
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 14:20 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60071 SDG#: PEG04-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0019 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.50	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0021 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0020 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	I130991AA	04/09/2013 18:04	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 18:04	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/09/2013 23:25	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 04:41	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 22:42	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 22:42	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 22:42	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 22:42	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 22:42	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 22:42	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 22:42	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 04:41	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 22:42	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 22:42	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-007-04062013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014511
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 14:25 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

60072 SDG#: PEG04-10

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	0.5 J	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	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-007-04062013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014511
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 14:25 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60072 SDG#: PEG04-10

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	0.1 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.9	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	3.3	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.020 J	0.011	0.054	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.054	1
08357	Anthracene	120-12-7	N.D.	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.054	1
08357	Chrysene	218-01-9	N.D.	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.054	1
08357	Fluoranthene	206-44-0	0.024 J	0.011	0.054	1
08357	Fluorene	86-73-7	0.047 J	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	0.12	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	0.081	0.011	0.054	1
08357	Naphthalene	91-20-3	0.042 J	0.032	0.054	1
08357	Phenanthrene	85-01-8	0.045 J	0.032	0.054	1
08357	Pyrene	129-00-0	0.015 J	0.011	0.054	1
Reporting limits were raised due to limited sample volume.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	14.7	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0078 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0268	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-007-04062013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014511
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 14:25 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60072 SDG#: PEG04-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.33	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	1.56	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0018 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0024 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	I130991AA	04/09/2013 18:25	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 18:25	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/09/2013 23:53	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 04:45	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 22:46	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 22:46	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 22:46	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 22:46	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 22:46	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 22:46	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 22:46	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 04:45	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 22:46	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 22:46	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-006-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014512
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 14:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60061 SDG#: PEG04-11

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

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

Sample Description: WS-006-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014512
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 14:40 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

60061 SDG#: PEG04-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Reporting limits were raised due to limited sample volume.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	14.9	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0171	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-006-04062013 (SURFACE) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014512
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 14:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60061 SDG#: PEG04-11

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	3.41	0.0640	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.54	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I130991AA	04/09/2013 18:47	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 18:47	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/10/2013 00:20	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 04:48	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 22:50	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 22:50	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 22:50	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 22:50	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 22:50	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 22:50	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 22:50	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 04:48	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 22:50	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 22:50	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-006-04062013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014513
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 14:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60062 SDG#: PEG04-12

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-006-04062013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014513
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 14:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60062 SDG#: PEG04-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	13.6	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	0.0173	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.07	0.0640	0.200	1

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

Sample Description: WS-006-04062013 (0.5-1.0) Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014513
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 14:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

60062 SDG#: PEG04-12

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	
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	1.45	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I130991AA	04/09/2013 19:07	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 19:07	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/10/2013 00:48	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 04:52	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 22:53	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 22:53	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 22:53	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 22:53	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 22:53	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 22:53	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 22:53	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 04:52	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 22:53	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 22:53	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-DUP1-04062013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014514
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

6DUP1 SDG#: PEG04-13FD

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

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

Sample Description: WS-DUP1-04062013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014514
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

6DUP1 SDG#: PEG04-13FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.4 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.1 J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.8	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Reporting limits were raised due to limited sample volume.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	13.4	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0174	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-DUP1-04062013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014514
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/10/2013 17:06

Houston TX 77210-4416

6DUP1 SDG#: PEG04-13FD

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	2.98	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	1.44	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
SW-846 7470A						
			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I130991AA	04/09/2013 19:29	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 19:29	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAA026	04/10/2013 01:15	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAA026	04/09/2013 12:15	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848004	04/10/2013 04:56	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	130991848004	04/09/2013 22:57	John P Hook	1
07049	Cadmium	SW-846 6010B	1	130991848004	04/09/2013 22:57	John P Hook	1
01750	Calcium	SW-846 6010B	1	130991848004	04/09/2013 22:57	John P Hook	1
07051	Chromium	SW-846 6010B	1	130991848004	04/09/2013 22:57	John P Hook	1
07055	Lead	SW-846 6010B	1	130991848004	04/09/2013 22:57	John P Hook	1
01757	Magnesium	SW-846 6010B	1	130991848004	04/09/2013 22:57	John P Hook	1
07061	Nickel	SW-846 6010B	1	130991848004	04/09/2013 22:57	John P Hook	1
07036	Selenium	SW-846 6010B	1	130991848004	04/10/2013 04:56	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	130991848004	04/09/2013 22:57	John P Hook	1
07071	Vanadium	SW-846 6010B	1	130991848004	04/09/2013 22:57	John P Hook	1
00259	Mercury	SW-846 7470A	1	130995713002	04/10/2013 09:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848004	04/09/2013 12:30	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713002	04/09/2013 15:40	Nelli S Markaryan	1

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

Sample Description: TB-WS-02-04062013 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014515
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

6TB02 SDG#: PEG04-14TB*

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

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

Sample Description: TB-WS-02-04062013 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014515
LLI Group # 1381314
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/06/2013

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/10/2013 17:06

PO Box 4416

Houston TX 77210-4416

6TB02 SDG#: PEG04-14TB*

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	I130991AA	04/09/2013 14:04	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130991AA	04/09/2013 14:04	Kerri E Legerlotz	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 04/10/13 at 05:06 PM

Group Number: 1381314

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: I130991AA	Sample number(s): 7014499-7014504, 7014506-7014515								
Acetone	N.D.	3.0	5.0	ug/l	108	130	73-135	18	30
Allyl Chloride	N.D.	0.1	0.5	ug/l	118	126	61-130	6	30
Benzene	N.D.	0.1	0.5	ug/l	103	105	80-120	2	30
Bromobenzene	N.D.	0.1	0.5	ug/l	94	95	80-120	1	30
Bromochloromethane	N.D.	0.1	0.5	ug/l	93	98	80-125	5	30
Bromodichloromethane	N.D.	0.1	0.5	ug/l	108	110	80-120	1	30
Bromoform	N.D.	0.1	0.5	ug/l	97	96	63-132	1	30
Bromomethane	N.D.	0.1	0.5	ug/l	89	91	38-146	2	30
2-Butanone	N.D.	1.0	5.0	ug/l	114	133*	70-130	16	30
n-Butylbenzene	N.D.	0.1	0.5	ug/l	93	103	80-120	10	30
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	96	102	80-120	6	30
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	92	97	80-120	6	30
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	110	112	74-133	2	30
Chlorobenzene	N.D.	0.1	0.5	ug/l	95	97	80-120	2	30
Chloroethane	N.D.	0.1	0.5	ug/l	96	100	67-124	4	30
Chloroform	N.D.	0.1	0.5	ug/l	108	110	80-120	2	30
Chloromethane	N.D.	0.2	0.5	ug/l	97	99	55-135	1	30
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	95	99	80-120	4	30
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	95	99	80-120	4	30
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	94	112	57-141	18	30
Dibromochloromethane	N.D.	0.1	0.5	ug/l	104	103	80-126	1	30
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	93	94	80-120	1	30
Dibromomethane	N.D.	0.1	0.5	ug/l	102	103	80-120	1	30
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	96	99	80-120	3	30
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	96	100	80-120	4	30
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	96	99	80-112	4	30
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	88	89	39-120	2	30
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	114	117	80-120	2	30
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	116	116	80-127	1	30
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	104	106	80-123	3	30
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	99	102	80-120	3	30
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	101	104	80-120	3	30
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	115	125	63-149	8	30
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	111	113	80-120	2	30
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	101	102	80-120	0	30
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	98	106	75-122	8	30
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	105	109	80-121	3	30
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	106	107	74-120	2	30
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98	99	73-126	1	30
Ethyl ether	N.D.	0.1	0.5	ug/l	90	84	59-130	6	30
Ethylbenzene	N.D.	0.1	0.5	ug/l	96	100	80-120	4	30
Freon 113	N.D.	0.2	0.5	ug/l	99	106	78-132	7	30
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	80	86	61-125	8	30

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1381314

Reported: 04/10/13 at 05:06 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	95	98	80-120	3	30
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	93	99	80-120	6	30
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	100	101	80-125	1	30
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	106	107	69-135	1	30
Methylene Chloride	N.D.	0.2	0.5	ug/l	105	107	80-120	2	30
n-Propylbenzene	N.D.	0.1	0.5	ug/l	100	106	80-120	6	30
Styrene	N.D.	0.1	0.5	ug/l	91	94	80-120	3	30
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	98	100	80-120	2	30
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	100	102	80-125	2	30
Tetrachloroethene	N.D.	0.1	0.5	ug/l	89	94	80-120	5	30
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	108	126	65-131	15	30
Toluene	N.D.	0.1	0.5	ug/l	95	98	80-120	3	30
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	83	87	63-120	4	30
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	84	91	70-120	7	30
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	108	111	79-127	3	30
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	96	96	80-120	0	30
Trichloroethene	N.D.	0.1	0.5	ug/l	101	104	80-120	3	30
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	101	105	77-132	4	30
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	98	97	80-120	1	30
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	98	102	80-120	4	30
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	98	103	80-120	5	30
Vinyl Chloride	N.D.	0.1	0.5	ug/l	97	100	65-127	3	30
Xylene (Total)	N.D.	0.1	0.5	ug/l	93	96	80-120	4	30

Batch number: 13099WAA026

Sample number(s): 7014499-7014504, 7014506-7014514

Acenaphthene	N.D.	0.010	0.050	ug/l	103		65-124
Acenaphthylene	N.D.	0.010	0.050	ug/l	110		72-113
Anthracene	N.D.	0.010	0.050	ug/l	105		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	106		72-120
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	112		74-130
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	94		63-121
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	103		74-118
Chrysene	N.D.	0.010	0.050	ug/l	99		75-112
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	83		66-122
Fluoranthene	N.D.	0.010	0.050	ug/l	110		73-116
Fluorene	N.D.	0.010	0.050	ug/l	104		74-115
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	94		66-122
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	106		72-114
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	115		74-119
Naphthalene	N.D.	0.030	0.050	ug/l	104		67-118
Phenanthrene	N.D.	0.030	0.050	ug/l	102		72-109
Pyrene	N.D.	0.010	0.050	ug/l	107		71-116

Batch number: 130991848004

Sample number(s): 7014499-7014514

Arsenic	N.D.	0.0068	0.0200	mg/l	101		90-113
Barium	N.D.	0.00033	0.0050	mg/l	100		90-110
Cadmium	N.D.	0.00036	0.0050	mg/l	101		90-112
Calcium	N.D.	0.0640	0.200	mg/l	100		90-110
Chromium	N.D.	0.0011	0.0150	mg/l	102		90-110
Lead	N.D.	0.0051	0.0150	mg/l	102		88-110
Magnesium	N.D.	0.0606	0.100	mg/l	97		90-110
Nickel	N.D.	0.0011	0.0100	mg/l	102		90-111
Selenium	N.D.	0.0075	0.0200	mg/l	97		80-120
Silver	N.D.	0.0012	0.0050	mg/l	90		80-120
Vanadium	N.D.	0.0013	0.0050	mg/l	102		90-110

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1381314

Reported: 04/10/13 at 05:06 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 130995713002	Sample number(s): 7014499-7014514								
Mercury	N.D.	0.00007	0.00020	mg/l	98		80-120		
		0							

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: I130991AA	Sample number(s): 7014499-7014504, 7014506-7014515 UNSPK: 7014502								
Acetone	105	113	57-163	7	30				
Allyl Chloride	125	118	67-139	6	30				
Benzene	101	101	87-126	0	30				
Bromobenzene	86	92	80-123	6	30				
Bromochloromethane	93	88	82-125	5	30				
Bromodichloromethane	102	107	82-133	4	30				
Bromoform	88	93	60-138	5	30				
Bromomethane	92	93	41-145	1	30				
2-Butanone	102	116	63-146	12	30				
n-Butylbenzene	98	102	83-131	5	30				
sec-Butylbenzene	95	100	84-128	5	30				
tert-Butylbenzene	90	94	84-135	5	30				
Carbon Tetrachloride	110	110	81-148	1	30				
Chlorobenzene	90	94	78-133	5	30				
Chloroethane	103	103	70-139	0	30				
Chloroform	104	106	86-136	1	30				
Chloromethane	99	101	55-152	2	30				
2-Chlorotoluene	91	96	81-120	5	30				
4-Chlorotoluene	91	96	82-119	6	30				
1,2-Dibromo-3-chloropropane	86	98	43-143	14	30				
Dibromochloromethane	93	100	79-125	7	30				
1,2-Dibromoethane	84	90	84-127	6	30				
Dibromomethane	94	97	83-126	3	30				
1,2-Dichlorobenzene	90	95	83-117	5	30				
1,3-Dichlorobenzene	92	97	81-118	6	30				
1,4-Dichlorobenzene	91	96	79-120	5	30				
Dichlorodifluoromethane	89	89	28-136	0	30				
1,1-Dichloroethane	112	111	88-136	0	30				
1,2-Dichloroethane	109	111	82-135	2	30				
1,1-Dichloroethene	104	105	83-150	1	30				
cis-1,2-Dichloroethene	95	97	82-129	2	30				
trans-1,2-Dichloroethene	100	100	88-127	1	30				
Dichlorofluoromethane	126	131	59-176	4	30				
1,2-Dichloropropane	107	109	91-126	1	30				
1,3-Dichloropropane	92	98	80-127	6	30				
2,2-Dichloropropane	102	103	80-134	1	30				
1,1-Dichloropropene	107	107	86-139	0	30				
cis-1,3-Dichloropropene	98	103	74-132	5	30				
trans-1,3-Dichloropropene	90	94	71-128	5	30				
Ethyl ether	79	77	67-127	2	30				

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1381314

Reported: 04/10/13 at 05:06 PM

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethylbenzene	94	98	80-140	4	30				
Freon 113	106	106	87-158	0	30				
Hexachlorobutadiene	82	87	65-128	6	30				
Isopropylbenzene	93	96	81-133	4	30				
p-Isopropyltoluene	93	98	84-124	4	30				
Methyl Tertiary Butyl Ether	90	91	82-132	2	30				
4-Methyl-2-Pentanone	99	106	69-149	7	30				
Methylene Chloride	99	99	84-122	1	30				
n-Propylbenzene	99	104	79-131	5	30				
Styrene	86	90	63-151	4	30				
1,1,1,2-Tetrachloroethane	91	97	87-126	6	30				
1,1,2,2-Tetrachloroethane	92	98	75-131	7	30				
Tetrachloroethene	90	93	75-129	3	30				
Tetrahydrofuran	92	99	56-154	8	30				
Toluene	92	95	83-127	3	30				
1,2,3-Trichlorobenzene	78	83	73-125	6	30				
1,2,4-Trichlorobenzene	81	86	77-120	5	30				
1,1,1-Trichloroethane	107	109	85-140	2	30				
1,1,2-Trichloroethane	89	94	85-129	6	30				
Trichloroethene	101	103	85-131	2	30				
Trichlorofluoromethane	113	110	67-161	2	30				
1,2,3-Trichloropropane	89	95	76-120	6	30				
1,2,4-Trimethylbenzene	94	99	87-126	5	30				
1,3,5-Trimethylbenzene	94	99	89-129	5	30				
Vinyl Chloride	102	104	65-151	2	30				
Xylene (Total)	91	94	81-137	4	30				

Batch number: 13099WAA026 Sample number(s): 7014499-7014504,7014506-7014514 UNSPK: 7014502

Acenaphthene	101	101	59-127	1	30				
Acenaphthylene	108	107	33-146	1	30				
Anthracene	102	102	69-119	1	30				
Benzo(a)anthracene	108	102	67-124	7	30				
Benzo(a)pyrene	98	96	64-123	2	30				
Benzo(b)fluoranthene	109	104	61-133	6	30				
Benzo(g,h,i)perylene	95	95	36-138	2	30				
Benzo(k)fluoranthene	95	97	59-128	1	30				
Chrysene	94	96	62-118	1	30				
Dibenz(a,h)anthracene	93	91	32-141	3	30				
Fluoranthene	109	109	65-123	1	30				
Fluorene	103	102	69-124	2	30				
Indeno(1,2,3-cd)pyrene	100	97	29-143	4	30				
1-Methylnaphthalene	106	106	67-117	0	30				
2-Methylnaphthalene	113	115	71-126	1	30				
Naphthalene	103	102	58-131	1	30				
Phenanthrene	103	101	67-117	3	30				
Pyrene	123	120	59-125	3	30				

Batch number: 130991848004 Sample number(s): 7014499-7014514 UNSPK: 7014502 BKG: 7014502

Arsenic	107	108	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	101	99	78-118	2	20	0.0146	0.0144	2 (1)	20
Cadmium	101	100	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	102	98	81-118	2	20	3.05	2.99	2	20

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1381314

Reported: 04/10/13 at 05:06 PM

Sample Matrix Quality Control

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

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Chromium	103	102	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	104	100	75-125	4	20	N.D.	N.D.	0 (1)	20
Magnesium	100	96	75-125	2	20	1.47	1.45	1	20
Nickel	103	102	86-115	1	20	N.D.	0.0013 J	200* (1)	20
Selenium	99	100	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	91	92	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	103	103	90-111	1	20	N.D.	N.D.	0 (1)	20

Batch number: 130995713002

Sample number(s): 7014499-7014514 UNSPK: 7014502 BKG: 7014502

Mercury	98	98	80-120	0	20	N.D.	N.D.	0 (1)	20
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Surrogate Quality Control

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

Analysis Name: NHDES VOCs 25ml purge

Batch number: I130991AA

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

7014499	100	93	100	101
7014500	101	92	100	102
7014501	102	95	100	103
7014502	100	92	101	102
7014503	102	95	101	104
7014504	101	93	101	103
7014506	100	95	100	103
7014507	102	96	99	104
7014508	101	94	100	104
7014509	100	94	100	104
7014510	100	94	100	104
7014511	99	92	101	103
7014512	101	94	99	102
7014513	101	93	100	102
7014514	102	95	100	104
7014515	100	92	101	102
Blank	100	91	102	100
LCS	102	93	101	103
LCSD	101	92	101	104
MS	102	95	101	104
MSD	101	93	101	103

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

Batch number: 13099WAA026

Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
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*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1381314

Reported: 04/10/13 at 05:06 PM

Surrogate Quality Control

7014499	100	97	95
7014500	101	101	97
7014501	91	104	97
7014502	102	101	98
7014503	103	104	100
7014504	103	101	101
7014506	101	103	98
7014507	89	98	95
7014508	71	68	88
7014509	78	60*	80
7014510	75	71	84
7014511	83	76	85
7014512	102	104	97
7014513	84	90	87
7014514	99	99	93
Blank	100	101	96
LCS	102	106	101
MS	103	104	100
MSD	103	101	101

Limits:	64-120	62-141	58-134
---------	--------	--------	--------

*- Outside of specification

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

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

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

ExxonMobil Analysis Request/Chain of Custody



Lancaster
Laboratories

Acct. # 14739 Group # 1381314 Sample # 7014499-515
For Lancaster Laboratories use only
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix		5 Analyses Requested												SCR#: _____																																																			
Facility #/SID				☐ Sediment ☐ Potable ☐ Ground ☒ Surface ☐ Water ☐ NPDES ☐ Air ☐ Oil ☐ Total # of Containers		Preservation Code												Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other																																																			
Site Address ARCADIS-MAYFLOWER PIPE INCIDENT						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;">H</td><td style="width:5%;">N</td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>														H	N																																																
H	N																																																																				
ExxonMobil PM SCOTT BUSHROE		Cost Center/AFE																																																																			
Consultant/Office ARCADIS																		6 Remarks DATA ANALYSIS QUESTIONS: LYNDI MOTT - ARCADIS																																																			
Consultant PM STEPHEN BARRICK		Consultant Phone # 919-302-6799																																																																			
Sampler JON LEMESSURIER 315 558 1904																																																																					
2 Sample Identification				3																																																																	
		Collected		Grab	Composite																																																																
		Date	Time																																																																		
WS-003 (SURFACE)		4/6/13	0855	X																																																																	
WS-002 (SURFACE)			0930	X																																																																	
WS-BKG-001 (SURFACE)			1015	X																																																																	
WS-005 (SURFACE)			1045	X																																																																	
WS-005 (SURFACE) MS			1050	X																																																																	
WS-005 (SURFACE) MSD			1055	X																																																																	
WS-001 (SURFACE)			1325	X																																																																	
WS-004 (0.5-1.0)			1330	X																																																																	
WS-004 (SURFACE)			1345	X																																																																	
WS-004 (0.5-1.0)			1350	X																																																																	
WS-007 (SURFACE)			1420	X																																																																	
WS-007 (0.5-1.0)			1425	X																																																																	
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by		Date		Time		Received by				Date		Time																																																					
Standard 5 day 4 day						4/8/13		1630						Date Time 4/9/13 0925																																																							
72 hour 48 hour 24 hour																																																																					
8 Data Package (circle if required)				Relinquished by Commercial Carrier		UPS FedEx ☒ Other _____		Received by				Date		Time																																																							
Type I - Full				Temperature Upon Receipt <u>17-5.2°C</u>		Custody Seals Intact? Yes No				Date Time 4/9/13 0925																																																											
Type VI (Raw Data)																																																																					
NJ Reduced																																																																					
Other _____																																																																					

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

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7053.01

For Lancaster Laboratories use only
Acct. # 14739 Group # 1381314 Sample # 7014499-515
Instructions on reverse side correspond with circled numbers.

Instructions on reverse side correspond with circled numbers

[illegible]

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Issued by Dept. 40 Management
7053.01

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Kathy KlinefelterA# 14739, Gr# 1381314, Sample#s 7014499-515

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Tuesday, April 09, 2013 11:02 AM
To: SA Env Entry; Kathy Klinefelter
Subject: FW: Surface Water collected on 0406
Attachments: XOM_Mayflower_04062013.pdf

Please add calcium, magnesium and Ca-Mg Hardness calculation to the sw samples listed on this coc.

Lyndi Mott

Lyndi Mott | Project Chemistry/Data Quality Specialist | lyndi.mott@arcadis-us.com
ARCADIS U.S., Inc. | 2929 Briarpark Drive | Suite 300 | Houston, TX 77042
T. 713.953.4829 | T. 832.534.8140 | M. 315.569.9448

www.arcadis-us.com

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Please consider the environment before printing this email.

From: Mott, Lyndi
Sent: Monday, April 08, 2013 7:43 PM
To: SA Env Entry; 'Kathy Klinefelter'
Subject: FW: COCs for Surface Water

Please add the collection date to the sample ids. Metals is RCRA metals, including mercury, plus nickel and vanadium.

TAT is 24 hours or best available.

Lyndi Mott

Lyndi Mott | Project Chemistry/Data Quality Specialist | lyndi.mott@arcadis-us.com
ARCADIS U.S., Inc. | 2929 Briarpark Drive | Suite 300 | Houston, TX 77042
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4/9/2013

Deborah A. Neslund*A # 14739, Gr # 1381314, Sample #s 7014499-515*

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Monday, April 08, 2013 8:46 PM
To: SA Env Entry; Kathy Klinefelter
Subject: FW: COCs for Surface Water
Attachments: XOM_Mayflower_04062013.pdf; XOM_Mayflower_04072013.pdf

Please add the collection date to the sample Ids. Metals is RCRA metals, including mercury, plus nickel and vanadium.

TAT is 24 hours or best available.

Lyndi Mott

Lyndi Mott | Project Chemistry/Data Quality Specialist | lyndi.mott@arcadis-us.com
ARCADIS U.S., Inc. | 2929 Briarpark Drive | Suite 300 | Houston, TX 77042
T. 713.953.4829 | T. 832.534.8140 | M. 315.569.9448

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4/9/2013

Environmental Sample Administration
Receipt Documentation Log

1381314

Client/Project: ARCADIS-MAYFLOWERShipping Container Sealed: YES NODate of Receipt: 4/9/13Custody Seal Present *: YES NOTime of Receipt: 0925* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 50-1Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	2783	2.1	TB	WI	Y	B	
2		1.9					
3		5.2					
4		2.5					
5		1.7					
6		2.7					

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Daneshund / 208 Date/Time: 4/9/13 / 1015

Issued by Dept. 6042 Management

2174.06

Environmental Sample Administration
Receipt Documentation Log

1381314

Client/Project: ARCADIS-MAYFLOWER Shipping Container Sealed: YES NODate of Receipt: 4/9/13Custody Seal Present *: YES NOTime of Receipt: 0925* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 50-1Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
7	2783	1.7	TB	WI	Y	B	
8	↓	3.3	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Danesh / 208 Date/Time: 4/9/13 / 1015

Issued by Dept. 6042 Management

2174.06

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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

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