

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

May 09, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/05/2013

Group Number: 1387710

SDG: PEH17

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LLI)

WS-003(SURFACE)050413 Grab Surface Water	7045845
WS-002(SURFACE)050413 Grab Surface Water	7045846
WS-005(SURFACE)050413 Grab Surface Water	7045847
WS-008(SURFACE)050413 Grab Surface Water	7045848
WS-001(SURFACE)050413 Grab Surface Water	7045849
WS-001(0.5-1.0)050413 Grab Surface Water	7045850
WS-004(SURFACE)050413 Grab Surface Water	7045851
WS-004(0.5-1.0)050413 Grab Surface Water	7045852
WS-007(SURFACE)050413 Grab Surface Water	7045853
WS-007(0.5-1.0)050413 Grab Surface Water	7045854
WS-006(SURFACE)050413 Grab Surface Water	7045855
WS-006(0.5-1.0)050413 Grab Surface Water	7045856
WS-TB-33-050413 Water	7045857
WS-DUP-20-050413 Grab Surface Water	7045858

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

ELECTRONIC ARCADIS

COPY TO

Attn: Stephen Barrick

ELECTRONIC ARCADIS

COPY TO

Attn: Lyndi Mott

ELECTRONIC ExxonMobil

COPY TO

Attn: Scott Bushroe

ELECTRONIC ExxonMobil

COPY TO

Attn: Michael J. Firth

ELECTRONIC ARCADIS

Attn: Emily Leamer

COPY TO

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1387710

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

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

Batch #: 13125WAY026 (Sample number(s): 7045850-7045856, 7045858)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7045851, 7045852, 7045853, 7045854, 7045856

Sample #s: 7045845, 7045846, 7045847, 7045848, 7045849, 7045850, 7045855, 7045858

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

Sample #s: 7045851, 7045852, 7045853, 7045854, 7045856

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis. The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Sample Description: WS-003 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045845
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 07:45 by AP

ExxonMobil

Submitted: 05/05/2013 15:09

Mobil Pipeline Company

Reported: 05/09/2013 14:34

PO Box 4416

Houston TX 77210-4416

SRF-3 SDG#: PEH17-01

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

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

Sample Description: WS-003 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045845
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 07:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF-3 SDG#: PEH17-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.054	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
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.3	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0214	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-003 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045845
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 07:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF-3 SDG#: PEH17-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.34	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	1.69	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0011 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0016 J	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131271AA	05/07/2013 03:28	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131271AA	05/07/2013 03:28	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13125WAA026	05/07/2013 06:26	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13125WAA026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131266256001	05/06/2013 07:18	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131251848005	05/06/2013 05:17	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131251848005	05/06/2013 05:17	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131251848005	05/06/2013 05:17	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131251848005	05/06/2013 05:17	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131251848005	05/06/2013 05:17	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131251848005	05/06/2013 05:17	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131251848005	05/06/2013 05:17	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131251848005	05/06/2013 05:17	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131251848005	05/06/2013 05:17	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131251848005	05/06/2013 05:17	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131251848005	05/06/2013 05:17	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131255713004	05/06/2013 12:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131251848005	05/05/2013 20:20	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131255713004	05/06/2013 07:45	Damary Valentin	1

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

Sample Description: WS-002 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045846
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 08:05 by AP

ExxonMobil

Submitted: 05/05/2013 15:09

Mobil Pipeline Company

Reported: 05/09/2013 14:34

PO Box 4416

Houston TX 77210-4416

SRF-2 SDG#: PEH17-02

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

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

Sample Description: WS-002 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045846
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 08:05 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF-2 SDG#: PEH17-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.017 J	0.010	0.052	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	16.6	0.064	0.20	1
	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	0.0206	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-002 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045846
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 08:05 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF-2 SDG#: PEH17-02

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	3.67	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	1.81	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	L131262AA	05/06/2013 18:29	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L131262AA	05/06/2013 18:29	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13125WAA026	05/07/2013 06:53	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13125WAA026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131266256001	05/06/2013 07:18	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131251848005	05/06/2013 05:29	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131251848005	05/06/2013 05:29	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131251848005	05/06/2013 05:29	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131251848005	05/06/2013 05:29	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131251848005	05/06/2013 05:29	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131251848005	05/06/2013 05:29	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131251848005	05/06/2013 05:29	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131251848005	05/06/2013 05:29	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131251848005	05/06/2013 05:29	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131251848005	05/06/2013 05:29	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131251848005	05/06/2013 05:29	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131255713004	05/06/2013 12:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131251848005	05/05/2013 20:20	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131255713004	05/06/2013 07:45	Damary Valentin	1

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

Sample Description: WS-005(SURFACE)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045847
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 08:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF-5 SDG#: PEH17-03

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

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

Sample Description: WS-005(SURFACE)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045847
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 08:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF-5 SDG#: PEH17-03

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	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.3	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0181	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-005 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045847
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 08:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF-5 SDG#: PEH17-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.37	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	1.67	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	L131262AA	05/06/2013 21:02	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L131262AA	05/06/2013 21:02	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13125WAA026	05/07/2013 07:20	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13125WAA026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131266256001	05/06/2013 07:18	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131251848005	05/06/2013 05:33	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131251848005	05/06/2013 05:33	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131251848005	05/06/2013 05:33	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131251848005	05/06/2013 05:33	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131251848005	05/06/2013 05:33	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131251848005	05/06/2013 05:33	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131251848005	05/06/2013 05:33	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131251848005	05/06/2013 05:33	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131251848005	05/06/2013 05:33	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131251848005	05/06/2013 05:33	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131251848005	05/06/2013 05:33	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131255713004	05/06/2013 12:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131251848005	05/05/2013 20:20	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131255713004	05/06/2013 07:45	Damary Valentin	1

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

Sample Description: WS-008 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045848
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:05 by AP

ExxonMobil

Submitted: 05/05/2013 15:09

Mobil Pipeline Company

Reported: 05/09/2013 14:34

PO Box 4416

Houston TX 77210-4416

SRF-8 SDG#: PEH17-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.3 J	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	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-008 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045848
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:05 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF-8 SDG#: PEH17-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.5	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	0.5	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	0.017 J	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.016 J	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	51.3	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0351	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-008 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045848
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:05 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF-8 SDG#: PEH17-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	11.8	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0015 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.32	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0111	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0018 J	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	L131262AA	05/06/2013 21:24	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L131262AA	05/06/2013 21:24	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13125WAA026	05/07/2013 07:48	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13125WAA026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131266256001	05/06/2013 07:18	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131251848005	05/06/2013 05:37	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131251848005	05/06/2013 05:37	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131251848005	05/06/2013 05:37	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131251848005	05/06/2013 05:37	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131251848005	05/06/2013 05:37	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131251848005	05/06/2013 05:37	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131251848005	05/06/2013 05:37	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131251848005	05/06/2013 05:37	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131251848005	05/06/2013 05:37	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131251848005	05/06/2013 05:37	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131251848005	05/06/2013 05:37	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131255713004	05/06/2013 12:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131251848005	05/05/2013 20:20	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131255713004	05/06/2013 07:45	Damary Valentin	1

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

Sample Description: WS-001(SURFACE)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045849
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:35 by AP

ExxonMobil

Submitted: 05/05/2013 15:09

Mobil Pipeline Company

Reported: 05/09/2013 14:34

PO Box 4416

Houston TX 77210-4416

SRF-1 SDG#: PEH17-05

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(SURFACE)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045849
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:35 by AP

ExxonMobil

Submitted: 05/05/2013 15:09

Mobil Pipeline Company

Reported: 05/09/2013 14:34

PO Box 4416

Houston TX 77210-4416

SRF-1 SDG#: PEH17-05

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	0.057	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.057	1
08357	Anthracene	120-12-7	N.D.	0.011	0.057	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.057	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.057	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.057	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.057	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.057	1
08357	Chrysene	218-01-9	N.D.	0.011	0.057	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.057	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.057	1
08357	Fluorene	86-73-7	N.D.	0.011	0.057	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.057	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.057	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.057	1
08357	Naphthalene	91-20-3	N.D.	0.034	0.057	1
08357	Phenanthrene	85-01-8	N.D.	0.034	0.057	1
08357	Pyrene	129-00-0	N.D.	0.011	0.057	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	18.2	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0529	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-001(SURFACE)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045849
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:35 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF-1 SDG#: PEH17-05

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	3.70	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0055 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0109 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.17	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0043 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0087	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	L131262AA	05/06/2013 21:46	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L131262AA	05/06/2013 21:46	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13125WAA026	05/07/2013 08:15	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13125WAA026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131266256001	05/06/2013 07:18	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131251848005	05/06/2013 05:41	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131251848005	05/06/2013 05:41	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131251848005	05/06/2013 05:41	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131251848005	05/06/2013 05:41	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131251848005	05/06/2013 05:41	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131251848005	05/06/2013 05:41	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131251848005	05/06/2013 05:41	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131251848005	05/06/2013 05:41	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131251848005	05/06/2013 05:41	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131251848005	05/06/2013 05:41	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131251848005	05/06/2013 05:41	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131255713004	05/06/2013 12:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131251848005	05/05/2013 20:20	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131255713004	05/06/2013 07:45	Damary Valentin	1

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

Sample Description: WS-001(0.5-1.0)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045850
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:40 by AP

ExxonMobil

Submitted: 05/05/2013 15:09

Mobil Pipeline Company

Reported: 05/09/2013 14:34

PO Box 4416

Houston TX 77210-4416

05101 SDG#: PEH17-06

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(0.5-1.0)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045850
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:40 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

05101 SDG#: PEH17-06

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	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.055	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	N.D.	0.011	0.055	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	18.8	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0050	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-001(0.5-1.0)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045850
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:40 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

05101 SDG#: PEH17-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	3.75	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0071 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0112 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.29	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0043 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0111	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	L131262AA	05/06/2013 22:53	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L131262AA	05/06/2013 22:53	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13125WAY026	05/08/2013 19:04	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13125WAY026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131266256001	05/06/2013 07:18	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131251848005	05/06/2013 04:49	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131251848005	05/06/2013 04:49	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131251848005	05/06/2013 04:49	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131251848005	05/06/2013 04:49	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131251848005	05/06/2013 04:49	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131251848005	05/06/2013 04:49	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131251848005	05/06/2013 04:49	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131251848005	05/06/2013 04:49	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131251848005	05/06/2013 04:49	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131251848005	05/06/2013 04:49	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131251848005	05/06/2013 04:49	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131255713004	05/06/2013 13:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131251848005	05/05/2013 20:20	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131255713004	05/06/2013 07:45	Damary Valentin	1

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

Sample Description: WS-004(SURFACE)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045851
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF04 SDG#: PEH17-07

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

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

Sample Description: WS-004 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045851
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF04 SDG#: PEH17-07

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	0.1 J	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	7.6	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	1.0	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	1.9	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	2.6	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.019 J	0.014	0.069	1
08357	Acenaphthylene	208-96-8	N.D.	0.014	0.069	1
08357	Anthracene	120-12-7	N.D.	0.014	0.069	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.014	0.069	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.014	0.069	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.014	0.069	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.014	0.069	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.014	0.069	1
08357	Chrysene	218-01-9	N.D.	0.014	0.069	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.014	0.069	1
08357	Fluoranthene	206-44-0	0.014 J	0.014	0.069	1
08357	Fluorene	86-73-7	0.059 J	0.014	0.069	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.014	0.069	1
08357	1-Methylnaphthalene	90-12-0	0.061 J	0.014	0.069	1
08357	2-Methylnaphthalene	91-57-6	0.055 J	0.014	0.069	1
08357	Naphthalene	91-20-3	0.047 J	0.042	0.069	1
08357	Phenanthrene	85-01-8	N.D.	0.042	0.069	1
08357	Pyrene	129-00-0	0.022 J	0.014	0.069	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	44.1	0.064	0.20

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

Sample Description: WS-004 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045851
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF04 SDG#: PEH17-07

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	
07035	Arsenic	7440-38-2	0.0085 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.330	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00048 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.85	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0370	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0733	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.95	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0312	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	0.0563	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00010 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	L131262AA	05/06/2013 23:15	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L131262AA	05/06/2013 23:15	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13125WAY026	05/08/2013 19:33	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13125WAY026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131266256001	05/06/2013 07:18	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131251848005	05/06/2013 05:45	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131251848005	05/06/2013 05:45	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131251848005	05/06/2013 05:45	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131251848005	05/06/2013 05:45	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131251848005	05/06/2013 05:45	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131251848005	05/06/2013 05:45	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131251848005	05/06/2013 05:45	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131251848005	05/06/2013 05:45	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131251848005	05/06/2013 05:45	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131251848005	05/06/2013 05:45	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131251848005	05/06/2013 05:45	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131255713004	05/06/2013 13:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131251848005	05/05/2013 20:20	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131255713004	05/06/2013 07:45	Damary Valentin	1

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

Sample Description: WS-004(0.5-1.0)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045852
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:50 by AP

ExxonMobil

Submitted: 05/05/2013 15:09

Mobil Pipeline Company

Reported: 05/09/2013 14:34

PO Box 4416

Houston TX 77210-4416

05104 SDG#: PEH17-08

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

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

Sample Description: WS-004(0.5-1.0)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045852
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:50 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

05104 SDG#: PEH17-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	0.1 J	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	7.6	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	1.0	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	2.5	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.024 J	0.011	0.057	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.057	1
08357	Anthracene	120-12-7	0.014 J	0.011	0.057	1
08357	Benzo(a)anthracene	56-55-3	0.020 J	0.011	0.057	1
08357	Benzo(a)pyrene	50-32-8	0.016 J	0.011	0.057	1
08357	Benzo(b)fluoranthene	205-99-2	0.022 J	0.011	0.057	1
08357	Benzo(g,h,i)perylene	191-24-2	0.013 J	0.011	0.057	1
08357	Benzo(k)fluoranthene	207-08-9	0.016 J	0.011	0.057	1
08357	Chrysene	218-01-9	0.027 J	0.011	0.057	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.057	1
08357	Fluoranthene	206-44-0	0.026 J	0.011	0.057	1
08357	Fluorene	86-73-7	0.048 J	0.011	0.057	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.012 J	0.011	0.057	1
08357	1-Methylnaphthalene	90-12-0	0.050 J	0.011	0.057	1
08357	2-Methylnaphthalene	91-57-6	0.058	0.011	0.057	1
08357	Naphthalene	91-20-3	0.085	0.034	0.057	1
08357	Phenanthrene	85-01-8	N.D.	0.034	0.057	1
08357	Pyrene	129-00-0	0.031 J	0.011	0.057	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	44.1	0.064	0.20

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

Sample Description: WS-004(0.5-1.0)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045852
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 09:50 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

05104 SDG#: PEH17-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0077 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.317	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00050 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.76	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0369	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0753	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.01	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0316	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0579	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00011 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	L131262AA	05/06/2013 23:37	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L131262AA	05/06/2013 23:37	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13125WAY026	05/08/2013 20:01	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13125WAY026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131266256001	05/06/2013 07:18	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131251848005	05/06/2013 05:49	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131251848005	05/06/2013 05:49	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131251848005	05/06/2013 05:49	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131251848005	05/06/2013 05:49	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131251848005	05/06/2013 05:49	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131251848005	05/06/2013 05:49	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131251848005	05/06/2013 05:49	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131251848005	05/06/2013 05:49	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131251848005	05/06/2013 05:49	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131251848005	05/06/2013 05:49	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131251848005	05/06/2013 05:49	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131255713004	05/06/2013 13:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131251848005	05/05/2013 20:20	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131255713004	05/06/2013 07:45	Damary Valentin	1

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

Sample Description: WS-007 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045853
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 10:05 by AP

ExxonMobil

Submitted: 05/05/2013 15:09

Mobil Pipeline Company

Reported: 05/09/2013 14:34

PO Box 4416

Houston TX 77210-4416

SRF07 SDG#: PEH17-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	5.7	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	0.1 J	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-007 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045853
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 10:05 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF07 SDG#: PEH17-09

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	0.3 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.5	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.4 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	1.4	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.053 J	0.012	0.060	1
08357	Acenaphthylene	208-96-8	0.070	0.012	0.060	1
08357	Anthracene	120-12-7	0.13	0.012	0.060	1
08357	Benzo(a)anthracene	56-55-3	0.064	0.012	0.060	1
08357	Benzo(a)pyrene	50-32-8	0.27	0.012	0.060	1
08357	Benzo(b)fluoranthene	205-99-2	0.15	0.012	0.060	1
08357	Benzo(g,h,i)perylene	191-24-2	0.024 J	0.012	0.060	1
08357	Benzo(k)fluoranthene	207-08-9	0.061	0.012	0.060	1
08357	Chrysene	218-01-9	0.15	0.012	0.060	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.060	1
08357	Fluoranthene	206-44-0	0.53	0.012	0.060	1
08357	Fluorene	86-73-7	0.14	0.012	0.060	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.018 J	0.012	0.060	1
08357	1-Methylnaphthalene	90-12-0	0.10	0.012	0.060	1
08357	2-Methylnaphthalene	91-57-6	0.11	0.012	0.060	1
08357	Naphthalene	91-20-3	0.060 J	0.036	0.060	1
08357	Phenanthrene	85-01-8	0.56	0.036	0.060	1
08357	Pyrene	129-00-0	0.52	0.012	0.060	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	42.8	0.064	0.20

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

Sample Description: WS-007 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045853
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 10:05 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF07 SDG#: PEH17-09

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	
07035	Arsenic	7440-38-2	0.0102 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.313	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00044 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.27	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0371	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0722	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.97	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0327	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	0.0555	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00012 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	L131262AA	05/06/2013 23:59	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L131262AA	05/06/2013 23:59	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13125WAY026	05/08/2013 20:30	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13125WAY026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131266256001	05/06/2013 07:18	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131251848005	05/06/2013 05:53	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131251848005	05/06/2013 05:53	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131251848005	05/06/2013 05:53	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131251848005	05/06/2013 05:53	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131251848005	05/06/2013 05:53	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131251848005	05/06/2013 05:53	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131251848005	05/06/2013 05:53	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131251848005	05/06/2013 05:53	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131251848005	05/06/2013 05:53	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131251848005	05/06/2013 05:53	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131251848005	05/06/2013 05:53	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131255713004	05/06/2013 13:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131251848005	05/05/2013 20:20	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131255713004	05/06/2013 07:45	Damary Valentin	1

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

Sample Description: WS-007(0.5-1.0)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045854
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 10:10 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

05107 SDG#: PEH17-10

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

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

Sample Description: WS-007(0.5-1.0)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045854
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 10:10 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

05107 SDG#: PEH17-10

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	0.4 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	0.5 J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.4 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	1.3	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.10	0.012	0.060	1
08357	Acenaphthylene	208-96-8	0.23	0.012	0.060	1
08357	Anthracene	120-12-7	0.53	0.012	0.060	1
08357	Benzo(a)anthracene	56-55-3	1.5	0.012	0.060	1
08357	Benzo(a)pyrene	50-32-8	1.1	0.012	0.060	1
08357	Benzo(b)fluoranthene	205-99-2	4.9	0.012	0.060	1
08357	Benzo(g,h,i)perylene	191-24-2	0.64	0.012	0.060	1
08357	Benzo(k)fluoranthene	207-08-9	1.4	0.012	0.060	1
08357	Chrysene	218-01-9	4.1	0.012	0.060	1
08357	Dibenz(a,h)anthracene	53-70-3	0.19	0.012	0.060	1
08357	Fluoranthene	206-44-0	11	0.012	0.060	1
08357	Fluorene	86-73-7	0.14	0.012	0.060	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.91	0.012	0.060	1
08357	1-Methylnaphthalene	90-12-0	0.029 J	0.012	0.060	1
08357	2-Methylnaphthalene	91-57-6	0.027 J	0.012	0.060	1
08357	Naphthalene	91-20-3	0.048 J	0.036	0.060	1
08357	Phenanthrene	85-01-8	2.2	0.036	0.060	1
08357	Pyrene	129-00-0	7.2	0.012	0.060	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	83.3	0.064	0.20

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

Sample Description: WS-007(0.5-1.0)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045854
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 10:10 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

05107 SDG#: PEH17-10

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	
07035	Arsenic	7440-38-2	0.0228	0.0068	0.0200	1
07046	Barium	7440-39-3	0.722	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0011 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	15.8	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0683	0.0011	0.0150	1
07055	Lead	7439-92-1	0.166	0.0051	0.0150	1
01757	Magnesium	7439-95-4	10.7	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0620	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	0.112	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00022	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	L131262AA	05/07/2013 00:21	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L131262AA	05/07/2013 00:21	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13125WAY026	05/08/2013 20:58	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13125WAY026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131266256001	05/06/2013 07:18	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131251848005	05/06/2013 05:57	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131251848005	05/06/2013 05:57	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131251848005	05/06/2013 05:57	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131251848005	05/06/2013 05:57	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131251848005	05/06/2013 05:57	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131251848005	05/06/2013 05:57	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131251848005	05/06/2013 05:57	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131251848005	05/06/2013 05:57	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131251848005	05/06/2013 05:57	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131251848005	05/06/2013 05:57	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131251848005	05/06/2013 05:57	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131255713004	05/06/2013 13:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131251848005	05/05/2013 20:20	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131255713004	05/06/2013 07:45	Damary Valentin	1

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

Sample Description: WS-006 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045855
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 10:40 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF06 SDG#: PEH17-11

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 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045855
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 10:40 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF06 SDG#: PEH17-11

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.	0.012	0.059	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.059	1
08357	Anthracene	120-12-7	N.D.	0.012	0.059	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.059	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.059	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.059	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.059	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.059	1
08357	Chrysene	218-01-9	N.D.	0.012	0.059	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.059	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.059	1
08357	Fluorene	86-73-7	N.D.	0.012	0.059	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.059	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.059	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.059	1
08357	Naphthalene	91-20-3	N.D.	0.036	0.059	1
08357	Phenanthrene	85-01-8	N.D.	0.036	0.059	1
08357	Pyrene	129-00-0	N.D.	0.012	0.059	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.9	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	0.0496	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-006 (SURFACE) 050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045855
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 10:40 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

SRF06 SDG#: PEH17-11

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	3.67	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0051 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0090 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.12	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0036 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0080	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	L131262AA	05/07/2013 00:42	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L131262AA	05/07/2013 00:42	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13125WAY026	05/08/2013 21:27	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13125WAY026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131266256001	05/06/2013 07:18	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131251848005	05/06/2013 06:01	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131251848005	05/06/2013 06:01	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131251848005	05/06/2013 06:01	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131251848005	05/06/2013 06:01	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131251848005	05/06/2013 06:01	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131251848005	05/06/2013 06:01	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131251848005	05/06/2013 06:01	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131251848005	05/06/2013 06:01	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131251848005	05/06/2013 06:01	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131251848005	05/06/2013 06:01	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131251848005	05/06/2013 06:01	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131255713004	05/06/2013 13:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131251848005	05/05/2013 20:20	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131255713004	05/06/2013 07:45	Damary Valentin	1

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

Sample Description: WS-006(0.5-1.0)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045856
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 10:45 by AP

ExxonMobil

Submitted: 05/05/2013 15:09

Mobil Pipeline Company

Reported: 05/09/2013 14:34

PO Box 4416

Houston TX 77210-4416

05106 SDG#: PEH17-12

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(0.5-1.0)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045856
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 10:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

05106 SDG#: PEH17-12

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.	0.011	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	0.014 J	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	0.012 J	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	0.018 J	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	0.019 J	0.011	0.054	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	17.8	0.064	0.20

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

Sample Description: WS-006(0.5-1.0)050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045856
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 10:45 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

05106 SDG#: PEH17-12

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	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0484	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.68	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0049 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0084 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.09	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0034 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	0.0079	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	L131262AA	05/07/2013 01:04	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L131262AA	05/07/2013 01:04	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13125WAY026	05/08/2013 21:56	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13125WAY026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131266256001	05/06/2013 07:18	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131251848005	05/06/2013 06:05	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131251848005	05/06/2013 06:05	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131251848005	05/06/2013 06:05	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131251848005	05/06/2013 06:05	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131251848005	05/06/2013 06:05	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131251848005	05/06/2013 06:05	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131251848005	05/06/2013 06:05	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131251848005	05/06/2013 06:05	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131251848005	05/06/2013 06:05	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131251848005	05/06/2013 06:05	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131251848005	05/06/2013 06:05	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131255713004	05/06/2013 13:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131251848005	05/05/2013 20:20	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131255713004	05/06/2013 07:45	Damary Valentin	1

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

Sample Description: WS-TB-33-050413 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045857
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013

ExxonMobil

Submitted: 05/05/2013 15:09

Mobil Pipeline Company

Reported: 05/09/2013 14:34

PO Box 4416

Houston TX 77210-4416

TB33- SDG#: PEH17-13TB

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

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

Sample Description: WS-TB-33-050413 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045857
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013

ExxonMobil

Submitted: 05/05/2013 15:09

Mobil Pipeline Company

Reported: 05/09/2013 14:34

PO Box 4416

Houston TX 77210-4416

TB33- SDG#: PEH17-13TB

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	L131262AA	05/06/2013 19:35	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L131262AA	05/06/2013 19:35	Kevin A Sposito	1

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

Sample Description: WS-DUP-20-050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045858
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 by AP

ExxonMobil

Submitted: 05/05/2013 15:09

Mobil Pipeline Company

Reported: 05/09/2013 14:34

PO Box 4416

Houston TX 77210-4416

FD20- SDG#: PEH17-14FD*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	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	0.3 J	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	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-DUP-20-050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045858
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

FD20- SDG#: PEH17-14FD*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.5	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	0.5	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.012	0.061	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.061	1
08357	Anthracene	120-12-7	N.D.	0.012	0.061	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.061	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.061	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.061	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.061	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.061	1
08357	Chrysene	218-01-9	N.D.	0.012	0.061	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.061	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.061	1
08357	Fluorene	86-73-7	N.D.	0.012	0.061	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.061	1
08357	1-Methylnaphthalene	90-12-0	0.016 J	0.012	0.061	1
08357	2-Methylnaphthalene	91-57-6	0.013 J	0.012	0.061	1
08357	Naphthalene	91-20-3	N.D.	0.037	0.061	1
08357	Phenanthrene	85-01-8	N.D.	0.037	0.061	1
08357	Pyrene	129-00-0	N.D.	0.012	0.061	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	50.8	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0344	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-DUP-20-050413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7045858
LLI Group # 1387710
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/04/2013 by AP

ExxonMobil

Mobil Pipeline Company

Submitted: 05/05/2013 15:09

PO Box 4416

Reported: 05/09/2013 14:34

Houston TX 77210-4416

FD20- SDG#: PEH17-14FD*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	11.7	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0014 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.23	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0106	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	L131262AA	05/07/2013 01:26	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L131262AA	05/07/2013 01:26	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13125WAY026	05/08/2013 22:24	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13125WAY026	05/06/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131266256001	05/06/2013 07:18	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131251848005	05/06/2013 06:17	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131251848005	05/06/2013 06:17	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131251848005	05/06/2013 06:17	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131251848005	05/06/2013 06:17	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131251848005	05/06/2013 06:17	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131251848005	05/06/2013 06:17	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131251848005	05/06/2013 06:17	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131251848005	05/06/2013 06:17	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131251848005	05/06/2013 06:17	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131251848005	05/06/2013 06:17	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131251848005	05/06/2013 06:17	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131255713004	05/06/2013 13:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131251848005	05/05/2013 20:20	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131255713004	05/06/2013 07:45	Damary Valentin	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/09/13 at 02:34 PM

Group Number: 1387710

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: C131271AA	Sample number(s): 7045845								
Acetone	N.D.	3.0	5.0	ug/l	101	101	73-135	1	30
Allyl Chloride	N.D.	0.1	0.5	ug/l	103	102	61-130	1	30
Benzene	N.D.	0.1	0.5	ug/l	101	101	80-120	0	30
Bromobenzene	N.D.	0.1	0.5	ug/l	100	99	80-120	1	30
Bromochloromethane	N.D.	0.1	0.5	ug/l	100	101	80-125	1	30
Bromodichloromethane	N.D.	0.1	0.5	ug/l	100	100	80-120	0	30
Bromoform	N.D.	0.1	0.5	ug/l	101	102	63-132	1	30
Bromomethane	N.D.	0.1	0.5	ug/l	96	96	38-146	0	30
2-Butanone	N.D.	1.0	5.0	ug/l	108	103	70-130	5	30
n-Butylbenzene	N.D.	0.1	0.5	ug/l	100	100	80-120	0	30
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	101	101	80-120	0	30
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	109	108	80-120	1	30
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	101	100	74-133	1	30
Chlorobenzene	N.D.	0.1	0.5	ug/l	102	101	80-120	2	30
Chloroethane	N.D.	0.1	0.5	ug/l	95	95	67-124	0	30
Chloroform	N.D.	0.1	0.5	ug/l	103	102	80-120	0	30
Chloromethane	N.D.	0.2	0.5	ug/l	88	89	55-135	0	30
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	99	99	80-120	0	30
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	101	100	80-120	1	30
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	105	98	57-141	7	30
Dibromochloromethane	N.D.	0.1	0.5	ug/l	102	102	80-126	1	30
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	101	102	80-120	1	30
Dibromomethane	N.D.	0.1	0.5	ug/l	100	100	80-120	0	30
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	101	102	80-120	2	30
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	102	103	80-120	1	30
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	100	101	80-112	1	30
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	73	73	39-120	0	30
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	104	104	80-120	0	30
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	101	103	80-127	2	30
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	107	106	80-123	1	30
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	103	102	80-120	1	30
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	103	103	80-120	0	30
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	124	123	63-149	1	30
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	103	104	80-120	1	30
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	101	101	80-120	0	30
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	100	101	75-122	1	30
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	101	100	80-121	0	30
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	102	102	74-120	1	30
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	97	97	73-126	0	30
Ethyl ether	N.D.	0.1	0.5	ug/l	101	101	59-130	1	30
Ethylbenzene	N.D.	0.1	0.5	ug/l	102	100	80-120	1	30
Freon 113	N.D.	0.2	0.5	ug/l	99	99	78-132	0	30
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	97	97	61-125	1	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: 1387710

Reported: 05/09/13 at 02:34 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Isopropylbenzene	N.D.	0.1	0.5	ug/l	103	102	80-120	1	30
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	101	102	80-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	98	100	80-125	2	30
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	100	104	69-135	4	30
Methylene Chloride	N.D.	0.2	0.5	ug/l	105	105	80-120	0	30
n-Propylbenzene	N.D.	0.1	0.5	ug/l	100	101	80-120	1	30
Styrene	N.D.	0.1	0.5	ug/l	104	103	80-120	0	30
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	100	99	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	99	102	80-125	3	30
Tetrachloroethene	N.D.	0.1	0.5	ug/l	101	99	80-120	2	30
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	108	102	65-131	6	30
Toluene	N.D.	0.1	0.5	ug/l	102	100	80-120	2	30
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	94	98	63-120	4	30
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	96	98	70-120	2	30
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	101	102	79-127	0	30
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	102	103	80-120	1	30
Trichloroethene	N.D.	0.1	0.5	ug/l	102	101	80-120	1	30
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	90	89	77-132	1	30
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	98	101	80-120	3	30
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	101	102	80-120	1	30
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	102	101	80-120	1	30
Vinyl Chloride	N.D.	0.1	0.5	ug/l	91	91	65-127	1	30
Xylene (Total)	N.D.	0.1	0.5	ug/l	102	101	80-120	1	30

Batch number: L131262AA

Sample number(s): 7045846-7045858

Acetone	N.D.	3.0	5.0	ug/l	94		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	103		61-130		
Benzene	N.D.	0.1	0.5	ug/l	107		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	106		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	96		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	97		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	73		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	92		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	102		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	110		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	97		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	94		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	104		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	92		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	100		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	99		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	89		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	87		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	96		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	100		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	102		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	98		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	97		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	109		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	103		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	117		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	106		80-120		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1387710

Reported: 05/09/13 at 02:34 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	117		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	109		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	98		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	111		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	114		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	108		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	94		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	118		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	119		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	106		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	105		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	104		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	109		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	95		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	104		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Styrene	N.D.	0.1	0.5	ug/l	102		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	91		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	106		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	103		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	103		65-131		
Toluene	N.D.	0.1	0.5	ug/l	103		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	83		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	93		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	108		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	96		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	102		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	100		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	96		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	101		80-120		

Batch number: 13125WAA026

Sample number(s): 7045845-7045849

Acenaphthene	N.D.	0.010	0.050	ug/l	99	99	65-124	0	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	103	102	72-113	1	30
Anthracene	N.D.	0.010	0.050	ug/l	93	95	70-117	3	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	96	95	75-115	1	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	100	99	72-120	1	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	104	103	74-130	1	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	100	96	63-121	3	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	108	106	74-118	2	30
Chrysene	N.D.	0.010	0.050	ug/l	105	106	75-112	1	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	96	95	66-122	2	30
Fluoranthene	N.D.	0.010	0.050	ug/l	101	100	73-116	1	30
Fluorene	N.D.	0.010	0.050	ug/l	102	102	74-115	0	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	92	92	66-122	1	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	110	114	72-114	4	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	113	113	74-119	0	30
Naphthalene	N.D.	0.030	0.050	ug/l	104	103	67-118	1	30
Phenanthrene	N.D.	0.030	0.050	ug/l	100	100	72-109	0	30
Pyrene	N.D.	0.010	0.050	ug/l	101	102	71-116	1	30

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1387710

Reported: 05/09/13 at 02:34 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 13125WAY026	Sample number(s): 7045850-7045856,7045858								
Acenaphthene	N.D.	0.010	0.050	ug/l	103	104	65-124	1	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	102	102	72-113	1	30
Anthracene	N.D.	0.010	0.050	ug/l	94	97	70-117	3	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	97	98	75-115	1	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	101	104	72-120	2	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	119	116	74-130	3	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	97	97	63-121	0	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	111	116	74-118	4	30
Chrysene	N.D.	0.010	0.050	ug/l	105	107	75-112	1	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	96	96	66-122	0	30
Fluoranthene	N.D.	0.010	0.050	ug/l	101	100	73-116	0	30
Fluorene	N.D.	0.010	0.050	ug/l	106	107	74-115	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	91	91	66-122	0	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	102	102	72-114	1	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	98	99	74-119	0	30
Naphthalene	N.D.	0.030	0.050	ug/l	99	99	67-118	0	30
Phenanthrene	N.D.	0.030	0.050	ug/l	103	101	72-109	1	30
Pyrene	N.D.	0.010	0.050	ug/l	98	99	71-116	2	30

Batch number: 131251848005	Sample number(s): 7045845-7045856,7045858								
Arsenic	N.D.	0.0068	0.0200	mg/l	103		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	103		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	104		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	101		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	105		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	107		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	100		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	107		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	101		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	96		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	109		90-110		

Batch number: 131255713004	Sample number(s): 7045845-7045856,7045858								
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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: C131271AA	Sample number(s): 7045845 UNSPK: P042640								
Acetone	111	109	57-163	2	30				
Allyl Chloride	115	121	67-139	5	30				
Benzene	111	118	87-126	5	30				
Bromobenzene	105	112	80-123	7	30				
Bromochloromethane	105	110	82-125	4	30				
Bromodichloromethane	106	114	82-133	7	30				
Bromoform	103	109	60-138	6	30				
Bromomethane	109	109	41-145	0	30				

*- Outside of specification

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Quality Control Summary

Client Name: ExxonMobil
Reported: 05/09/13 at 02:34 PM

Group Number: 1387710

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
2-Butanone	115	115	63-146	0	30				
n-Butylbenzene	110	116	83-131	5	30				
sec-Butylbenzene	115	121	84-128	5	30				
tert-Butylbenzene	114	122	84-135	7	30				
Carbon Tetrachloride	117	123	81-148	5	30				
Chlorobenzene	108	115	78-133	6	30				
Chloroethane	112	111	70-139	1	30				
Chloroform	111	118	86-136	6	30				
Chloromethane	104	103	55-152	0	30				
2-Chlorotoluene	107	115	81-120	7	30				
4-Chlorotoluene	108	116	82-119	7	30				
1,2-Dibromo-3-chloropropane	132	132	43-143	0	30				
Dibromochloromethane	104	113	79-125	8	30				
1,2-Dibromoethane	103	111	84-127	7	30				
Dibromomethane	102	109	83-126	7	30				
1,2-Dichlorobenzene	106	113	83-117	6	30				
1,3-Dichlorobenzene	108	115	81-118	6	30				
1,4-Dichlorobenzene	106	112	79-120	6	30				
Dichlorodifluoromethane	96	89	28-136	8	30				
1,1-Dichloroethane	114	122	88-136	6	30				
1,2-Dichloroethane	106	114	82-135	7	30				
1,1-Dichloroethene	124	132	83-150	6	30				
cis-1,2-Dichloroethene	112	124	82-129	7	30				
trans-1,2-Dichloroethene	116	121	88-127	5	30				
Dichlorofluoromethane	142	143	59-176	0	30				
1,2-Dichloropropane	110	120	91-126	8	30				
1,3-Dichloropropane	103	111	80-127	8	30				
2,2-Dichloropropane	113	121	80-134	7	30				
1,1-Dichloropropene	115	124	86-139	7	30				
cis-1,3-Dichloropropene	109	118	74-132	8	30				
trans-1,3-Dichloropropene	100	107	71-128	7	30				
Ethyl ether	106	126	67-127	17	30				
Ethylbenzene	112	118	80-140	6	30				
Freon 113	123	122	87-158	0	30				
Hexachlorobutadiene	100	104	65-128	4	30				
Isopropylbenzene	116	123	81-133	6	30				
p-Isopropyltoluene	112	119	84-124	6	30				
Methyl Tertiary Butyl Ether	102	110	82-132	8	30				
4-Methyl-2-Pentanone	106	116	69-149	9	30				
Methylene Chloride	112	120	84-122	7	30				
n-Propylbenzene	111	117	79-131	6	30				
Styrene	110	117	63-151	6	30				
1,1,1,2-Tetrachloroethane	105	112	87-126	6	30				
1,1,2,2-Tetrachloroethane	104	112	75-131	7	30				
Tetrachloroethene	113	119	75-129	6	30				
Tetrahydrofuran	113	111	56-154	1	30				
Toluene	109	119	83-127	8	30				
1,2,3-Trichlorobenzene	107	112	73-125	4	30				
1,2,4-Trichlorobenzene	108	112	77-120	4	30				
1,1,1-Trichloroethane	117	123	85-140	5	30				
1,1,2-Trichloroethane	107	112	85-129	5	30				
Trichloroethene	113	120	85-131	6	30				

*- Outside of specification

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1387710

Reported: 05/09/13 at 02:34 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
Trichlorofluoromethane	113	109	67-161	4	30				
1,2,3-Trichloropropane	103	112	76-120	9	30				
1,2,4-Trimethylbenzene	110	117	87-126	6	30				
1,3,5-Trimethylbenzene	111	118	89-129	5	30				
Vinyl Chloride	109	108	65-151	1	30				
Xylene (Total)	111	119	81-137	7	30				

Batch number: L131262AA	Sample number(s): 7045846-7045858 UNSPK: 7045847								
Acetone	103	119	57-163	14	30				
Allyl Chloride	110	114	67-139	4	30				
Benzene	114	116	87-126	2	30				
Bromobenzene	111	112	80-123	0	30				
Bromochloromethane	98	102	82-125	4	30				
Bromodichloromethane	102	103	82-133	1	30				
Bromoform	75	75	60-138	1	30				
Bromomethane	89	93	41-145	5	30				
2-Butanone	110	121	63-146	10	30				
n-Butylbenzene	110	112	83-131	1	30				
sec-Butylbenzene	116	117	84-128	1	30				
tert-Butylbenzene	111	113	84-135	2	30				
Carbon Tetrachloride	118	124	81-148	5	30				
Chlorobenzene	104	107	78-133	3	30				
Chloroethane	96	98	70-139	3	30				
Chloroform	110	112	86-136	3	30				
Chloromethane	85	89	55-152	5	30				
2-Chlorotoluene	107	109	81-120	2	30				
4-Chlorotoluene	107	107	82-119	0	30				
1,2-Dibromo-3-chloropropane	98	109	43-143	10	30				
Dibromochloromethane	88	91	79-125	3	30				
1,2-Dibromoethane	97	101	84-127	4	30				
Dibromomethane	104	104	83-126	0	30				
1,2-Dichlorobenzene	107	108	83-117	1	30				
1,3-Dichlorobenzene	103	105	81-118	2	30				
1,4-Dichlorobenzene	111	112	79-120	1	30				
Dichlorodifluoromethane	78	80	28-136	1	30				
1,1-Dichloroethane	115	118	88-136	3	30				
1,2-Dichloroethane	104	106	82-135	3	30				
1,1-Dichloroethene	127	131	83-150	3	30				
cis-1,2-Dichloroethene	111	114	82-129	3	30				
trans-1,2-Dichloroethene	119	121	88-127	2	30				
Dichlorofluoromethane	120	125	59-176	5	30				
1,2-Dichloropropane	112	115	91-126	3	30				
1,3-Dichloropropane	100	102	80-127	2	30				
2,2-Dichloropropane	119	124	80-134	4	30				
1,1-Dichloropropene	125	128	86-139	2	30				
cis-1,3-Dichloropropene	109	112	74-132	2	30				
trans-1,3-Dichloropropene	96	97	71-128	1	30				
Ethyl ether	115	121	67-127	5	30				
Ethylbenzene	111	114	80-140	3	30				
Freon 113	128	132	87-158	3	30				
Hexachlorobutadiene	117	118	65-128	1	30				
Isopropylbenzene	114	117	81-133	3	30				

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Quality Control SummaryClient Name: ExxonMobil
Reported: 05/09/13 at 02:34 PM

Group Number: 1387710

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>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>
p-Isopropyltoluene	114	116	84-124	1	30			
Methyl Tertiary Butyl Ether	106	110	82-132	3	30			
4-Methyl-2-Pentanone	92	94	69-149	3	30			
Methylene Chloride	107	112	84-122	4	30			
n-Propylbenzene	114	114	79-131	1	30			
Styrene	109	111	63-151	2	30			
1,1,1,2-Tetrachloroethane	96	99	87-126	3	30			
1,1,2,2-Tetrachloroethane	104	108	75-131	4	30			
Tetrachloroethene	114	117	75-129	3	30			
Tetrahydrofuran	111	121	56-154	9	30			
Toluene	112	114	83-127	2	30			
1,2,3-Trichlorobenzene	88	89	73-125	1	30			
1,2,4-Trichlorobenzene	101	102	77-120	1	30			
1,1,1-Trichloroethane	117	121	85-140	4	30			
1,1,2-Trichloroethane	98	91	85-129	8	30			
Trichloroethene	118	120	85-131	1	30			
Trichlorofluoromethane	97	110	67-161	12	30			
1,2,3-Trichloropropane	99	99	76-120	1	30			
1,2,4-Trimethylbenzene	109	111	87-126	1	30			
1,3,5-Trimethylbenzene	112	113	89-129	1	30			
Vinyl Chloride	91	98	65-151	7	30			
Xylene (Total)	109	113	81-137	3	30			

Batch number: 131251848005	Sample number(s): 7045845-7045856,7045858 UNSPK: 7045850 BKG: 7045850							
Arsenic	106	105	81-123	2	20	N.D.	N.D.	0 (1) 20
Barium	103	105	78-118	2	20	0.0590	0.0583	1 20
Cadmium	104	104	83-116	0	20	N.D.	N.D.	0 (1) 20
Calcium	101	101	81-118	0	20	3.75	3.75	0 20
Chromium	107	108	81-120	2	20	0.0071 J	0.0066 J	6 (1) 20
Lead	108	108	75-125	0	20	0.0112 J	0.0124 J	10 (1) 20
Magnesium	106	107	75-125	0	20	2.29	2.28	1 20
Nickel	107	107	86-115	1	20	0.0043 J	0.0046 J	8 (1) 20
Selenium	102	104	75-125	2	20	N.D.	N.D.	0 (1) 20
Silver	94	94	75-125	1	20	N.D.	N.D.	0 (1) 20
Vanadium	109	110	90-111	2	20	0.0111	0.0109	3 (1) 20

Batch number: 131255713004	Sample number(s): 7045845-7045856,7045858 UNSPK: 7045845 BKG: 7045845							
Mercury	102	96	80-120	6	20	N.D.	N.D.	0 (1) 20

Surrogate Quality Control

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

Analysis Name: NHDES VOCs 25ml purge
Batch number: C131271AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7045845	101	98	100	99

*- Outside of specification

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Quality Control Summary

Client Name: ExxonMobil

Group Number: 1387710

Reported: 05/09/13 at 02:34 PM

Surrogate Quality Control

Blank	100	100	99	98
LCS	100	99	101	100
LCSD	99	99	100	99
MS	100	100	100	101
MSD	100	99	100	100

Limits:	77-114	74-113	77-110	78-110
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Analysis Name: NHDES VOCs 25ml purge

Batch number: L131262AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7045846	96	100	98	101
7045847	96	95	100	101
7045848	96	97	99	99
7045849	96	93	98	100
7045850	96	97	100	101
7045851	96	96	99	100
7045852	97	96	99	101
7045853	96	94	98	101
7045854	96	94	99	100
7045855	96	95	99	99
7045856	96	97	100	100
7045857	96	97	99	100
7045858	95	95	99	101
Blank	97	102	98	101
LCS	97	98	99	101
MS	96	93	100	100
MSD	97	93	101	101

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

Batch number: 13125WAA026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7045845	93	83	97
7045846	97	86	93
7045847	94	90	94
7045848	94	95	98
7045849	85	79	87
Blank	85	91	88
LCS	89	101	99
LCSD	88	97	99

Limits:	64-120	62-141	58-134
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Analysis Name: PAHs in waters by SIM

Batch number: 13125WAY026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7045850	81	76	76
7045851	67	57*	68
7045852	44*	30*	48*

*- Outside of specification

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Quality Control Summary

Client Name: ExxonMobil

Group Number: 1387710

Reported: 05/09/13 at 02:34 PM

Surrogate Quality Control

7045853	62*	35*	62
7045854	52*	34*	56*
7045855	72	67	69
7045856	68	58*	65
7045858	94	99	87
Blank	85	91	80
LCS	89	100	89
LCSD	89	100	89
Limits:	64-120	62-141	58-134

*- Outside of specification

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ExxonMobil Analysis Request/Chain of Custody



Lancaster
Laboratories

Acct. # 14739 Group # 1387710 Sample # 7045845-58
For Lancaster Laboratories use only
Instructions on reverse side correspond with circled numbers.

Page 1 of 2

1 Client Information				4 Matrix		5 Analyses Requested										6 Preservation Code		SCR#: 138452																																																																
Facility #/SID <u>MAYFLOWER PIPELINE INCIDENT</u> Site Address <u>MAYFLOWER, AR</u> ExxonMobil PM <u>SCOTT BUSHROE</u> Consultant/Office <u>ARCADIS</u> Consultant PM <u>STEVE BARRECK</u> Consultant Phone # <u>919 302 6799</u> Sampler <u>A. PARRINELLO / H. VAN ALLER</u>				Sediment ☐ Ground ☐ Surface ☒ Potable ☐ NPDES ☐ Air ☐ Water ☐ Oil ☐		Preservation Code H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other										Remarks																																																																		
2 Sample Identification				3 Grab Composite		Total # of Containers												6																																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification</th> <th>Date</th> <th>Time</th> <th>Grab</th> <th>Composite</th> </tr> </thead> <tbody> <tr><td>WS-003 (SURFACE) 050413</td><td>5/4/13</td><td>0745</td><td>/</td><td></td></tr> <tr><td>WS-003 (SURFACE) 050413</td><td>5/4/13</td><td>0805</td><td>/</td><td></td></tr> <tr><td>WS-003 (SURFACE) 050413</td><td>5/4/13</td><td></td><td>/</td><td></td></tr> <tr><td>WS-005 (SURFACE) 050413</td><td>5/4/13</td><td>0845</td><td>/</td><td></td></tr> <tr><td>WS-008 (SURFACE) 050413</td><td>5/4/13</td><td>0905</td><td>/</td><td></td></tr> <tr><td>WS-001 (SURFACE) 050413</td><td>5/4/13</td><td>0935</td><td>/</td><td></td></tr> <tr><td>WS-001 (0.5-1.0) 050413</td><td>5/4/13</td><td>0940</td><td>/</td><td></td></tr> <tr><td>WS-004 (SURFACE) 050413</td><td>5/4/13</td><td>0945</td><td>/</td><td></td></tr> <tr><td>WS-004 (SURFACE) 050413</td><td>5/4/13</td><td>0950</td><td>/</td><td></td></tr> <tr><td>WS-007 (SURFACE) 050413</td><td>5/4/13</td><td>1005</td><td>/</td><td></td></tr> <tr><td>WS-007 (0.5-1.0) 050413</td><td>5/4/13</td><td>1010</td><td>/</td><td></td></tr> <tr><td>WS-006 (SURFACE) 050413</td><td>5/4/13</td><td>1040</td><td>/</td><td></td></tr> </tbody> </table>				Sample Identification	Date	Time	Grab	Composite	WS-003 (SURFACE) 050413	5/4/13	0745	/		WS-003 (SURFACE) 050413	5/4/13	0805	/				WS-003 (SURFACE) 050413	5/4/13		/		WS-005 (SURFACE) 050413	5/4/13	0845	/		WS-008 (SURFACE) 050413	5/4/13	0905	/		WS-001 (SURFACE) 050413	5/4/13	0935	/		WS-001 (0.5-1.0) 050413	5/4/13	0940	/		WS-004 (SURFACE) 050413	5/4/13	0945	/		WS-004 (SURFACE) 050413	5/4/13	0950	/		WS-007 (SURFACE) 050413	5/4/13	1005	/		WS-007 (0.5-1.0) 050413	5/4/13	1010	/		WS-006 (SURFACE) 050413	5/4/13	1040	/		Soil ☐ Water ☐ Oil ☐		VOCs PATHS PCPA METALS + HYDROCARBONS									
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7 Turnaround Time Requested (TAT) (please circle)				Relinquished by		Date		Time		Received by		Date		Time		9																																																																		
Standard 5 day 4 day 72 hour 48 hour 24 hour				Relinquished by <u>H. Van Aller</u>		Date <u>5/4/13</u>		Time <u>1500</u>		Received by <u>[Signature]</u>		Date <u>5/5/13</u>		Time <u>0509</u>		Yes No																																																																		
8 Data Package (circle if required)				Relinquished by Commercial Carrier		Date		Time		Received by		Date		Time																																																																				
Type I - Full Type VI (Raw Data) NJ Reduced Other				Locus EIM (default) Other		UPS FedEx Other <u>Southwest</u>		Temperature Upon Receipt <u>1,1-2,1</u> °C		Custody Seals Intact?		Date <u>5/5/13</u>		Time <u>0509</u>																																																																				



**Lancaster
Laboratories**

Acct. # 14739

For Lancaster Laboratories use only 7045845-58
Group # 1387710 Sample # _____
Instructions on reverse side correspond with circled numbers.

pg 2 of 2

[illegible]

Rachel L. Kreamer

A# 14739, Gr.# 1387710, UAs 7045845-58

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Monday, May 06, 2013 9:18 AM
To: Rachel L. Kreamer; Kathy Klinefelter
Cc: Chandler, Jennifer; Van Aller, Hans
Subject: FW: Typo on Chain for surface waters received 5/5/13

Attachments: 20130506084312236.pdf



2013050608431223
6.pdf (812 KB)...

Rachel,

Please see the revised coc showing the corrected sample Id for the sample collected at 0950.

Thank you,
Lyndi Mott

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

From: Rachel L. Kreamer [mailto:RKreamer@lancasterlabs.com]
Sent: Monday, May 06, 2013 7:49 AM
To: Mott, Lyndi
Cc: Kathy Klinefelter
Subject: Typo on Chain for surface waters received 5/5/13

Lyndi,

I attached the surface water chain from 5/5. I wanted to let you know that there is a typo for WS-004(surface)050413, collected 5/4/13 @ 0950. Per the bottle labels this sample is WS-004(0.5-1.0)050413.

Thanks,
Rachel

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

From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Monday, May 06, 2013 8:43 AM
To: Rachel L. Kreamer
Subject:

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

Scan Date: 05.06.2013 08:43:12 (-0400)
Queries to: 39Scanner@lancasterlabs.com

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ExxonMobil Analysis Request/Chain of Custody



Lancaster
Laboratories

Acct. # 14739

Group # 1387710

For Lancaster Laboratories use only

Sample # 7045845-58

Instructions on reverse side correspond with circled numbers.

pg 1 of 2

SCR#: 138452

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks			
Facility #/SID <u>MAYFLOWER PIPELINE INCIDENT</u>				☐ Sediment ☐ Ground ☐ Potable ☐ NPDES ☐ Air ☐ Soil ☐ Water ☐ Oil				Preservation Code												Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other			
Site Address <u>MAYFLOWER, AR</u>																							
ExxonMobil PM <u>SCOTT BUSHROE</u>				Cost Center/AFE				VOCs PAHs PCRA METALS + Ni, V, Cr, Pb, Hg, Cu, Zn, Cd, Mn, Fe, Al, Si, Ti, Co, Mo, Ni, V, Cr, Pb, Hg, Cu, Zn, Cd, Mn, Fe, Al, Si, Ti, Co, Mo												6			
Consultant/Office <u>ARCADIS</u>				Consultant Phone # <u>919 302 6799</u>																			
Consultant PM <u>STEVE BARRICK</u>				Sampler <u>A. PARRINELLO / H. VAN ALLER</u>																			
2 Sample Identification				3 Collected		Grab		Composite															
				Date	Time																		
WS-003 (SURFACE) 050413				5/4/13	0745																		
WS-002 (SURFACE) 050413				5/4/13	0805																		
WS-BKGD01 (SURFACE) 050413				5/4/13																NOT COLLECTED (AR)			
WS-005 (SURFACE) 050413				5/4/13	0845																		
WS-008 (SURFACE) 050413				5/4/13	0905																		
WS-001 (SURFACE) 050413				5/4/13	0935																		
WS-001 (0.5-1.0) 050413				5/4/13	0940																		
WS-004 (SURFACE) 050413				5/4/13	0945																		
WS-004 (SURFACE) 050413				5/4/13	0950																		
WS-007 (SURFACE) 050413				5/4/13	1005																		
WS-007 (0.5-1.0) 050413				5/4/13	1010																		
WS-006 (SURFACE) 050413				5/4/13	1040																		
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by				Date				Time				Received by				Date		Time	
Standard 5 day 4 day				<u>H. Van Allen</u>				4-24-13				1705											
72 hour 48 hour 24 hour								5/4/13				1500											
8 Data Package (circle if required)				Relinquished by				Date				Time				Received by				Date		Time	
Type I - Full				Locus EIM (default)																			
Type VI (Raw Data)				Other																			
NJ Reduced																							
Other																							
				Relinquished by Commercial Carrier				Date				Time				Received by				Date		Time	
				UPS FedEx Other <u>Southwest</u>																			
				Temperature Upon Receipt <u>1.1-2.1</u> °C																			
																Custody Seals Intact?				Yes		No	

Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300
The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management
7053.01

Acct. # 14739

For Lancaster Laboratories use only
Group # 1387710 Sample #

Sample #

7045845-58

pg 2 of 2

Instructions on reverse side correspond with circled numbers

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Issued by Dept. 40 Management
7053.01

G-1387710
Environmental Sample Administration
Receipt Documentation LogClient/Project: Exxon MobilShipping Container Sealed: YES NODate of Receipt: 5/5/13Custody Seal Present * : YES NOTime of Receipt: 1509

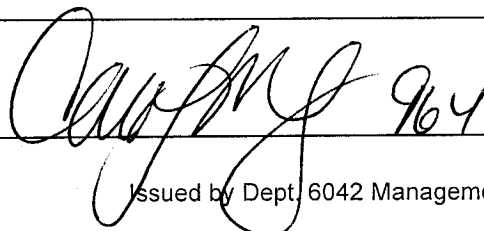
* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 01Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	2737	2.1	TB	WI	Y	B	
2	↓	2.8	↓	↓	↓	↓	
3	↓	1.1	↓	↓	↓	↓	
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: _____Paperwork Discrepancy/Unpacking Problems: enc 3 5/5/13WS-004(Surface) @ 0945 0950 = WS-004(0.5-1.0) 050413

Unpacker Signature/Emp#:

Date/Time: 5/5/13 0930

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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