

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

July 10, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 07/02/2013

Group Number: 1401082

SDG: PEI68

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
WS-011(1.5-2.0)070113 Grab Surface Water	7114128
WS-011(5.5-6.0)070113 Grab Surface Water	7114129
WS-014(1.5-2.0)070113 Grab Surface Water	7114130
WS-014(5.0-5.5)070113 Grab Surface Water	7114131
WS-012(1.5-2.0)070113 Grab Surface Water	7114132
WS-012(5.0-5.5)070113 Grab Surface Water	7114133
WS-010(1.5-2.0)070113 Grab Surface Water	7114134
WS-010(3.0-3.5)070113 Grab Surface Water	7114135
WS-018(Surface)070113 Grab Surface Water	7114136
WS-FB-39-070113 Grab Water	7114137
WS-TB-87-070113 Water	7114138
DUP-WS-49-070113 Grab Surface Water	7114139
WS-003(Surface)070113 Grab Surface Water	7114140
WS-002(Surface)070113 Grab Surface Water	7114141
WS-001(Surface)070113 Grab Surface Water	7114142
WS-001(0.5-1.0)070113 Grab Surface Water	7114143
WS-004(Surface)070113 Grab Surface Water	7114144
WS-004(0.5-1.0)070113 Grab Surface Water	7114145
WS-007(Surface)070113 Grab Surface Water	7114146
WS-007(0.5-1.0)070113 Grab Surface Water	7114147
WS-006(Surface)070113 Grab Surface Water	7114148
WS-006(0.5-1.0)070113 Grab Surface Water	7114149

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

ELECTRONIC ARCADIS

Attn: Stephen Barrick

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

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1401082

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

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

Batch #: C131841AA (Sample number(s): 7114132-7114136, 7114138-7114145, 7114147-7114149 UNSPK: 7114132)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene
Batch #: C131842AA (Sample number(s): 7114146 UNSPK: P116357)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Toluene
Batch #: G131832AA (Sample number(s): 7114128-7114131 UNSPK: P113716)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Allyl chloride, trans-1,2-Dichloroethene, n-Propylbenzene, 2-Chlorotoluene, 4-Chlorotoluene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, p-Isopropyltoluene, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13184WAA026 (Sample number(s): 7114128, 7114130-7114136, 7114139-7114149)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD exceeded the acceptance window indicating a positive bias: Benzo(g,h,i)perylene

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7114128, 7114139, 7114140, 7114143, 7114144, 7114146, 7114147

Sample #s: 7114145

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Benzo(g,h,i)perylene

Sample #s: 7114139, 7114146

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

Benzo(g,h,i)perylene

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

Sample #s: 7114147

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

Benzo(g,h,i)perylene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:

The sample was re-extracted and the QC is again outside of the acceptance limits, indicating a matrix effect. The data is reported from the initial trial.

Sample #s: 7114128, 7114140, 7114143, 7114144

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

SW-846 6010B, Metals

Batch #: 131831848002 (Sample number(s): 7114149 UNSPK: P113742 BKG: P113742)

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

EPA 1664A, Wet Chemistry

Batch #: 13184807902A (Sample number(s): 7114128-7114136, 7114139-7114144, 7114146, 7114148 UNSPK: 7114148)

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: HEM (oil & grease)

Sample #s: 7114145, 7114147, 7114149

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

Sample Description: WS-011(1.5-2.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114128
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 09:10 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01111 SDG#: PEI68-01

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-011(1.5-2.0)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114128**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 09:10 by HV ExxonMobil
 Submitted: 07/02/2013 09:20 Mobil Pipeline Company
 Reported: 07/10/2013 17:03 PO Box 4416
 Houston TX 77210-4416

01111 SDG#: PEI68-01

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	0.055	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 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	24.1	0.033	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	0.0277	0.00033	0.0050	1

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: WS-011(1.5-2.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114128
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 09:10 by HV ExxonMobil
Mobil Pipeline Company
Submitted: 07/02/2013 09:20 PO Box 4416
Reported: 07/10/2013 17:03 Houston TX 77210-4416

01111 SDG#: PEI68-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.44	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.54	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0065	0.00030	0.0010	5
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	1.5 J	1.4	5.0	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	G131832AA	07/02/2013 18:43	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131832AA	07/02/2013 18:43	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 07:26	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 16:46	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 16:46	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 16:46	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 16:46	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 16:46	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 16:46	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 16:46	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 16:46	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 16:46	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 16:46	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 16:46	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 21:10	Parker D Lindstrom	5
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1

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

Sample Description: WS-011(1.5-2.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114128
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 09:10 by HV ExxonMobil
Submitted: 07/02/2013 09:20 Mobil Pipeline Company
Reported: 07/10/2013 17:03 PO Box 4416
Houston TX 77210-4416

01111 SDG#: PEI68-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: WS-011(5.5-6.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114129
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 09:30 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01112 SDG#: PEI68-02

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-011(5.5-6.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114129
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 09:30 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 07/02/2013 09:20

PO Box 4416

Reported: 07/10/2013 17:03

Houston TX 77210-4416

01112 SDG#: PEI68-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
			ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	0.049 J	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	24.4	0.033	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	0.0292	0.0033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.51	0.0334	0.200	1

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

Sample Description: WS-011(5.5-6.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114129
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 09:30 by HV ExxonMobil
Submitted: 07/02/2013 09:20 Mobil Pipeline Company
Reported: 07/10/2013 17:03 PO Box 4416
Houston TX 77210-4416

01112 SDG#: PEI68-02

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	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.59	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00057	0.000060	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	G131832AA	07/02/2013 19:04	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131832AA	07/02/2013 19:04	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13187WAA026	07/08/2013 20:14	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13187WAA026	07/07/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 16:50	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 16:50	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 16:50	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 16:50	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 16:50	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 16:50	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 16:50	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 16:50	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 16:50	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 16:50	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 16:50	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:07	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: **WS-014(1.5-2.0)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114130**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 10:20 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01141 SDG#: PEI68-03

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-014(1.5-2.0)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114130**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 10:20 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 07/02/2013 09:20

PO Box 4416

Reported: 07/10/2013 17:03

Houston TX 77210-4416

01141 SDG#: PEI68-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
			ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	0.033 J	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	23.4	0.033	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	0.0268	0.0033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.30	0.0334	0.200	1

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: **WS-014(1.5-2.0)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114130**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 10:20 by HV ExxonMobil
 Submitted: 07/02/2013 09:20 Mobil Pipeline Company
 Reported: 07/10/2013 17:03 PO Box 4416
 Houston TX 77210-4416

01141 SDG#: PEI68-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.47	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00064	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	G131832AA	07/02/2013 19:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131832AA	07/02/2013 19:26	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 08:25	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 16:24	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 16:24	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 16:24	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 16:24	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 16:24	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 16:24	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 16:24	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 16:24	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 16:24	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 16:24	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 16:24	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:09	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: WS-014(5.0-5.5)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114131
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 10:30 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01142 SDG#: PEI68-04

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

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

Sample Description: **WS-014(5.0-5.5)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114131**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 10:30 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 07/02/2013 09:20

PO Box 4416

Reported: 07/10/2013 17:03

Houston TX 77210-4416

01142 SDG#: PEI68-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	0.036 J	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	23.3	0.033	0.20	1
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0266	0.0033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.31	0.0334	0.200	1

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

Sample Description: WS-014(5.0-5.5)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114131
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 10:30 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 07/02/2013 09:20

PO Box 4416

Reported: 07/10/2013 17:03

Houston TX 77210-4416

01142 SDG#: PEI68-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.45	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00091	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	1.9 J	1.4	5.0	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	G131832AA	07/02/2013 19:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131832AA	07/02/2013 19:47	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 08:55	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:00	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:00	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:00	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:00	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:00	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:00	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:00	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:00	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:00	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:00	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:00	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:11	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: **WS-012(1.5-2.0)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114132**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 11:00 by HV ExxonMobil
 Submitted: 07/02/2013 09:20 Mobil Pipeline Company
 Reported: 07/10/2013 17:03 PO Box 4416
 Houston TX 77210-4416

01121 SDG#: PEI68-05

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-012(1.5-2.0)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114132**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 11:00 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01121 SDG#: PEI68-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
			ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	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	0.071	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	23.8	0.033	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	0.0289	0.0033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.41	0.0334	0.200	1

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

Sample Description: **WS-012(1.5-2.0)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114132**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 11:00 by HV ExxonMobil
 Submitted: 07/02/2013 09:20 Mobil Pipeline Company
 Reported: 07/10/2013 17:03 PO Box 4416
 Houston TX 77210-4416

01121 SDG#: PEI68-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.50	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0010	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	4.2 J	1.4	5.0	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	C131841AA	07/03/2013 10:08	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 10:08	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 09:25	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:04	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:04	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:04	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:04	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:04	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:04	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:04	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:04	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:04	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:04	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:04	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:13	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: WS-012(5.0-5.5)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114133
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:20 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01122 SDG#: PEI68-06

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-012(5.0-5.5)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114133
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:20 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01122 SDG#: PEI68-06

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	0.054	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	0.070	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
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	23.8	0.033	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	0.0396	0.0033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.39	0.0334	0.200	1

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

Sample Description: **WS-012(5.0-5.5)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114133**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 11:20 by HV ExxonMobil
 Submitted: 07/02/2013 09:20 Mobil Pipeline Company
 Reported: 07/10/2013 17:03 PO Box 4416
 Houston TX 77210-4416

01122 SDG#: PEI68-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.51	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00067	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	C131841AA	07/03/2013 10:31	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 10:31	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 09:55	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:08	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:08	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:08	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:08	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:08	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:08	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:08	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:08	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:08	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:08	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:08	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:15	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: WS-010(1.5-2.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114134
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:30 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01101 SDG#: PEI68-07

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

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

Sample Description: WS-010(1.5-2.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114134
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:30 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 07/02/2013 09:20

PO Box 4416

Reported: 07/10/2013 17:03

Houston TX 77210-4416

01101 SDG#: PEI68-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	0.073	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	22.6	0.033	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	0.0303	0.0033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.11	0.0334	0.200	1

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

Sample Description: **WS-010(1.5-2.0)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114134**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 11:30 by HV ExxonMobil
 Submitted: 07/02/2013 09:20 Mobil Pipeline Company
 Reported: 07/10/2013 17:03 PO Box 4416
 Houston TX 77210-4416

01101 SDG#: PEI68-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.38	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00067	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	C131841AA	07/03/2013 10:52	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 10:52	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 10:25	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:11	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:11	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:11	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:11	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:11	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:11	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:11	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:11	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:11	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:11	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:11	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:28	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: WS-010(3.0-3.5)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114135
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:40 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01102 SDG#: PEI68-08

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	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-010(3.0-3.5)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114135
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:40 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01102 SDG#: PEI68-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
			ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	0.082	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	23.0	0.033	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	0.0309	0.0033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.22	0.0334	0.200	1

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

Sample Description: **WS-010(3.0-3.5)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114135**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 11:40 by HV ExxonMobil
 Submitted: 07/02/2013 09:20 Mobil Pipeline Company
 Reported: 07/10/2013 17:03 PO Box 4416
 Houston TX 77210-4416

01102 SDG#: PEI68-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.42	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00079	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	C131841AA	07/03/2013 11:14	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 11:14	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 10:54	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:15	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:15	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:15	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:15	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:15	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:15	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:15	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:15	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:15	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:15	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:15	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:30	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: **WS-018 (Surface) 070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114136**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 12:50 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01018 SDG#: PEI68-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	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-018 (Surface) 070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114136**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 12:50 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01018 SDG#: PEI68-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
			ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	0.18	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	24.8	0.033	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	0.0285	0.0033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.60	0.0334	0.200	1

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: **WS-018 (Surface) 070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114136**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 12:50 by HV ExxonMobil
 Submitted: 07/02/2013 09:20 Mobil Pipeline Company
 Reported: 07/10/2013 17:03 PO Box 4416
 Houston TX 77210-4416

01018 SDG#: PEI68-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.63	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	C131841AA	07/03/2013 11:37	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 11:37	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 11:24	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:19	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:19	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:19	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:19	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:19	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:19	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:19	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:19	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:19	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:19	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:19	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:32	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: **WS-FB-39-070113 Grab Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114137**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 13:00 by HV

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

Submitted: 07/02/2013 09:20

Reported: 07/10/2013 17:03

01F39 SDG#: PEI68-10FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	0.49	0.033	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	0.0024 J	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	0.160 J	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	0.0229 J	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0042	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:22	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:22	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:22	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:22	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:22	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:22	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:22	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:22	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:22	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:22	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:22	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:34	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
05713	WW SW846 Hg Digest	SW-846 7470A	2	131895713001	07/08/2013 15:30	Nelli S Markaryan	1

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

Sample Description: **WS-TB-87-070113 Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114138**
LL Group # **1401082**
Account # **14739**

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

Collected: 07/01/2013

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01T87 SDG#: PEI68-11TB

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-87-070113 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114138
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01T87 SDG#: PEI68-11TB

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

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	C131841AA	07/03/2013 09:46	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 09:46	Kerri E Legerlotz	1

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

Sample Description: DUP-WS-49-070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114139
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 by HV

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

Submitted: 07/02/2013 09:20
Reported: 07/10/2013 17:03

01D49 SDG#: PEI68-12FD

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

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

Sample Description: DUP-WS-49-070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114139
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01D49 SDG#: PEI68-12FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.2 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	0.017 J	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	0.026 J	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	0.024 J	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	0.095	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	0.020 J	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	0.029 J	0.011	0.055	1
08357	Chrysene	218-01-9	0.11	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	0.14	0.011	0.055	1
08357	Fluorene	86-73-7	0.015 J	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.024 J	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	0.014 J	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	0.073	0.033	0.055	1
08357	Pyrene	129-00-0	0.12	0.011	0.055	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

Benzo(g,h,i)perylene

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

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

Sample Description: DUP-WS-49-070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114139
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01D49 SDG#: PEI68-12FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	15.4	0.033	0.20	1
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0087 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0329	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	3.61	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	1.56	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0018 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.0029 J	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	1.6 J	1.4	5.0	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	C131841AA	07/03/2013 11:59	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 11:59	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 11:54	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:26	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:26	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:26	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:26	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:26	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:26	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:26	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:26	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:26	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:26	John P Hook	1

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

Sample Description: DUP-WS-49-070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114139
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01D49 SDG#: PEI68-12FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:26	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:36	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: **WS-003 (Surface) 070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114140**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 09:00 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-03 SDG#: PEI68-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	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-003 (Surface) 070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114140**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 09:00 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 07/02/2013 09:20

PO Box 4416

Reported: 07/10/2013 17:03

Houston TX 77210-4416

01-03 SDG#: PEI68-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.012 J	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.011 J	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.026 J	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	0.017 J	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	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	0.16	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.18	0.010	0.052	1

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	26.1	0.033	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	0.0471	0.00033	0.0050	1

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

Sample Description: WS-003 (Surface) 070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114140
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 09:00 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-03 SDG#: PEI68-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.81	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0060 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.82	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0021 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.0028 J	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	2.2 J	1.4	5.0	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	C131841AA	07/03/2013 12:21	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 12:21	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 12:24	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:29	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:29	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:29	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:29	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:29	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:29	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:29	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:29	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:29	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:29	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:29	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:38	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1

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

Sample Description: WS-003 (Surface) 070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114140
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 09:00 by HV ExxonMobil
Mobil Pipeline Company
Submitted: 07/02/2013 09:20 PO Box 4416
Reported: 07/10/2013 17:03 Houston TX 77210-4416

01-03 SDG#: PEI68-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: **WS-002 (Surface) 070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114141**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 10:10 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-02 SDG#: PEI68-14

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

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

Sample Description: WS-002 (Surface) 070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114141
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 10:10 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-02 SDG#: PEI68-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.093	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	24.2	0.033	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	0.0246	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.47	0.0334	0.200	1

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

Sample Description: **WS-002 (Surface) 070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114141**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 10:10 by HV ExxonMobil
 Submitted: 07/02/2013 09:20 Mobil Pipeline Company
 Reported: 07/10/2013 17:03 PO Box 4416
 Houston TX 77210-4416

01-02 SDG#: PEI68-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.55	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	C131841AA	07/03/2013 12:44	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 12:44	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 12:54	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:33	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:33	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:33	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:33	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:33	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:33	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:33	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:33	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:33	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:33	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:33	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:40	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: WS-001(Surface)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114142
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:10 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-11 SDG#: PEI68-15

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

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

Sample Description: WS-001(Surface)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114142
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:10 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 07/02/2013 09:20

PO Box 4416

Reported: 07/10/2013 17:03

Houston TX 77210-4416

01-11 SDG#: PEI68-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.012	0.058	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.058	1
08357	Anthracene	120-12-7	N.D.	0.012	0.058	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.058	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.058	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.058	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.058	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.058	1
08357	Chrysene	218-01-9	N.D.	0.012	0.058	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.058	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.058	1
08357	Fluorene	86-73-7	N.D.	0.012	0.058	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.058	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.058	1
08357	Naphthalene	91-20-3	0.13	0.035	0.058	1
08357	Phenanthrene	85-01-8	N.D.	0.035	0.058	1
08357	Pyrene	129-00-0	N.D.	0.012	0.058	1
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	22.9	0.033	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	0.0304	0.0033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.19	0.0334	0.200	1

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

Sample Description: WS-001(Surface)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114142
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:10 by HV ExxonMobil
Mobil Pipeline Company
Submitted: 07/02/2013 09:20 PO Box 4416
Reported: 07/10/2013 17:03 Houston TX 77210-4416

01-11 SDG#: PEI68-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.42	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0016 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	C131841AA	07/03/2013 13:06	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 13:06	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 13:23	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:44	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:44	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:44	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:44	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:44	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:44	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:44	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:44	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:44	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:44	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:44	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:42	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: WS-001(0.5-1.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114143
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:20 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-12 SDG#: PEI68-16

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

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

Sample Description: **WS-001(0.5-1.0)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114143**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 11:20 by HV ExxonMobil
 Submitted: 07/02/2013 09:20 Mobil Pipeline Company
 Reported: 07/10/2013 17:03 PO Box 4416
 Houston TX 77210-4416

01-12 SDG#: PEI68-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	0.13	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 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	22.9	0.033	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	0.0326	0.00033	0.0050	1

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

Sample Description: WS-001(0.5-1.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114143
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:20 by HV ExxonMobil
Submitted: 07/02/2013 09:20 Mobil Pipeline Company
Reported: 07/10/2013 17:03 PO Box 4416
Houston TX 77210-4416

01-12 SDG#: PEI68-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.19	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.42	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	2.0 J	1.4	5.0	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	C131841AA	07/03/2013 13:28	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 13:28	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 13:53	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:47	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:47	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:47	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:47	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:47	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:47	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:47	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:47	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:47	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:47	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:47	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:44	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1

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

Sample Description: WS-001(0.5-1.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114143
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:20 by HV ExxonMobil
Submitted: 07/02/2013 09:20 Mobil Pipeline Company
Reported: 07/10/2013 17:03 PO Box 4416
Houston TX 77210-4416

01-12 SDG#: PEI68-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: WS-004 (Surface) 070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114144
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:50 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-41 SDG#: PEI68-17

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

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

Sample Description: WS-004 (Surface) 070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114144
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:50 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-41 SDG#: PEI68-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	4.6	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.1 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	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	0.012 J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO ₃	471-34-1	17.1	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0072 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0406	0.00033	0.0050	1

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: WS-004 (Surface) 070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114144
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:50 by HV ExxonMobil
Submitted: 07/02/2013 09:20 Mobil Pipeline Company
Reported: 07/10/2013 17:03 PO Box 4416
Houston TX 77210-4416

01-41 SDG#: PEI68-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	4.03	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0020 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0086 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	1.70	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0028 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.0031 J	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	3.6 J	1.4	5.0	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	C131841AA	07/03/2013 13:50	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 13:50	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 14:23	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:51	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:51	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:51	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:51	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:51	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:51	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:51	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:51	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:51	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:51	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:51	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:50	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1

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

Sample Description: WS-004(Surface)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114144
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 11:50 by HV ExxonMobil
Mobil Pipeline Company
Submitted: 07/02/2013 09:20 PO Box 4416
Reported: 07/10/2013 17:03 Houston TX 77210-4416

01-41 SDG#: PEI68-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: **WS-004(0.5-1.0)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114145**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 12:00 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-44 SDG#: PEI68-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	7.9	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	1.1 J	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: **WS-004(0.5-1.0)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114145**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 12:00 by HV ExxonMobil
 Submitted: 07/02/2013 09:20 Mobil Pipeline Company
 Reported: 07/10/2013 17:03 PO Box 4416
 Houston TX 77210-4416

01-44 SDG#: PEI68-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	21	1.0	5.0	10
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	0.012 J	0.012	0.059	1
08357	Benzo(a)pyrene	50-32-8	0.013 J	0.012	0.059	1
08357	Benzo(b)fluoranthene	205-99-2	0.026 J	0.012	0.059	1
08357	Benzo(g,h,i)perylene	191-24-2	0.013 J	0.012	0.059	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.059	1
08357	Chrysene	218-01-9	0.022 J	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	0.019 J	0.012	0.059	1
08357	Fluorene	86-73-7	0.014 J	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	0.027 J	0.012	0.059	1
08357	2-Methylnaphthalene	91-57-6	0.028 J	0.012	0.059	1
08357	Naphthalene	91-20-3	N.D.	0.035	0.059	1
08357	Phenanthrene	85-01-8	N.D.	0.035	0.059	1
08357	Pyrene	129-00-0	0.023 J	0.012	0.059	1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Benzo(g,h,i)perylene						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	35.5	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	

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

Sample Description: WS-004(0.5-1.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114145
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 12:00 by HV ExxonMobil
Mobil Pipeline Company
Submitted: 07/02/2013 09:20 PO Box 4416
Reported: 07/10/2013 17:03 Houston TX 77210-4416

01-44 SDG#: PEI68-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0225	0.0068	0.0200	1
07046	Barium	7440-39-3	0.238	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0011 J	0.00076	0.0050	1
01750	Calcium	7440-70-2	7.58	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0323	0.0016	0.0150	1
07055	Lead	7439-92-1	0.141	0.0047	0.0150	1
01757	Magnesium	7439-95-4	4.03	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0285	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.0388	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000069 J	0.000060	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						

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	C131841AA	07/03/2013 14:12	Kerri E Legerlotz	1
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131911AA	07/10/2013 14:08	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 14:12	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131911AA	07/10/2013 14:08	Kerri E Legerlotz	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 14:53	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:55	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:55	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:55	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:55	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:55	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:55	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:55	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:55	John P Hook	1

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

Sample Description: WS-004(0.5-1.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114145
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 12:00 by HV ExxonMobil
Mobil Pipeline Company
Submitted: 07/02/2013 09:20 PO Box 4416
Reported: 07/10/2013 17:03 Houston TX 77210-4416

01-44 SDG#: PEI68-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:55	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:55	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:55	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:52	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13189807901A	07/08/2013 09:18	Yolunder Y Bunch	1

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

Sample Description: **WS-007 (Surface) 070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114146**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 12:20 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-71 SDG#: PEI68-19

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

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

Sample Description: **WS-007 (Surface) 070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114146**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 12:20 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 07/02/2013 09:20

PO Box 4416

Reported: 07/10/2013 17:03

Houston TX 77210-4416

01-71 SDG#: PEI68-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.2 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	0.012 J	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	0.015 J	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	0.015 J	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	0.051 J	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	0.011 J	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	0.016 J	0.011	0.055	1
08357	Chrysene	218-01-9	0.048 J	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	0.064	0.011	0.055	1
08357	Fluorene	86-73-7	0.014 J	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.013 J	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	0.016 J	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	0.012 J	0.011	0.055	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.055	1
08357	Phenanthrene	85-01-8	0.038 J	0.033	0.055	1
08357	Pyrene	129-00-0	0.061	0.011	0.055	1

The LCS and/or LCS/D recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
 Benzo(g,h,i)perylene

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**

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: WS-007 (Surface) 070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114146
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 12:20 by HV ExxonMobil
Submitted: 07/02/2013 09:20 Mobil Pipeline Company
Reported: 07/10/2013 17:03 PO Box 4416
Houston TX 77210-4416

01-71 SDG#: PEI68-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	16.0	0.033	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	0.0334	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	3.73	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	1.62	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0017 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.0030 J	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry						
		EPA 1664A	mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	C131842AA	07/04/2013 00:35	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/04/2013 00:35	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 15:23	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 17:58	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 17:58	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 17:58	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 17:58	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 17:58	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 17:58	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 17:58	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 17:58	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 17:58	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 17:58	John P Hook	1

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

Sample Description: WS-007 (Surface) 070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114146
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 12:20 by HV ExxonMobil
Submitted: 07/02/2013 09:20 Mobil Pipeline Company
Reported: 07/10/2013 17:03 PO Box 4416
Houston TX 77210-4416

01-71 SDG#: PEI68-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 17:58	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:54	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: **WS-007(0.5-1.0)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114147**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 12:30 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-72 SDG#: PEI68-20

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

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

Sample Description: **WS-007(0.5-1.0)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114147**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 12:30 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 07/02/2013 09:20

PO Box 4416

Reported: 07/10/2013 17:03

Houston TX 77210-4416

01-72 SDG#: PEI68-20

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	1.0	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.014 J	0.011	0.053	1
08357	Acenaphthylene	208-96-8	0.024 J	0.011	0.053	1
08357	Anthracene	120-12-7	0.032 J	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	0.068	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	0.073	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	0.27	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	0.059	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	0.080	0.011	0.053	1
08357	Chrysene	218-01-9	0.20	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	0.015 J	0.011	0.053	1
08357	Fluoranthene	206-44-0	0.31	0.011	0.053	1
08357	Fluorene	86-73-7	0.020 J	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.059	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	0.019 J	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	0.091	0.032	0.053	1
08357	Pyrene	129-00-0	0.28	0.011	0.053	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

Benzo(g,h,i)perylene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:

The sample was re-extracted and the QC is again outside of the acceptance limits, indicating a matrix effect. The data is

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: WS-007(0.5-1.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114147
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 12:30 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-72 SDG#: PEI68-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
reported from the initial trial.						
Metals SM 2340 B-1997			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	59.4	0.033	0.20	1
SW-846 6010B			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0350	0.0068	0.0200	1
07046	Barium	7440-39-3	0.584	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0020 J	0.00076	0.0050	1
01750	Calcium	7440-70-2	10.8	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0430	0.0016	0.0150	1
07055	Lead	7439-92-1	0.105	0.0047	0.0150	1
01757	Magnesium	7439-95-4	7.86	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0521	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.0826	0.0020	0.0050	1
SW-846 7470A			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00021	0.000060	0.00020	1
Wet Chemistry EPA 1664A			mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						

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	C131841AA	07/03/2013 15:39	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 15:39	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 15:53	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 18:02	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 18:02	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 18:02	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 18:02	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 18:02	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 18:02	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 18:02	John P Hook	1

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

Sample Description: WS-007(0.5-1.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114147
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 12:30 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-72 SDG#: PEI68-20

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 18:02	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 18:02	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 18:02	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 18:02	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:56	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13189807901A	07/08/2013 09:18	Yolunder Y Bunch	1

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

Sample Description: WS-006 (Surface) 070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114148
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 13:40 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-61 SDG#: PEI68-21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	Acetone	67-64-1	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) 070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114148
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 13:40 by HV

ExxonMobil

Mobil Pipeline Company

Submitted: 07/02/2013 09:20

PO Box 4416

Reported: 07/10/2013 17:03

Houston TX 77210-4416

01-61 SDG#: PEI68-21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
			ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	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	0.11	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.054	0.010	0.052	1
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	22.6	0.033	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	0.0326	0.0033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.09	0.0334	0.200	1

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

Sample Description: **WS-006 (Surface) 070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114148**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 13:40 by HV ExxonMobil
 Submitted: 07/02/2013 09:20 Mobil Pipeline Company
 Reported: 07/10/2013 17:03 PO Box 4416
 Houston TX 77210-4416

01-61 SDG#: PEI68-21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.39	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	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	C131841AA	07/03/2013 16:01	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 16:01	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 16:22	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131896256001	07/08/2013 05:29	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131831848003	07/04/2013 18:06	John P Hook	1
07046	Barium	SW-846 6010B	1	131831848003	07/04/2013 18:06	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131831848003	07/04/2013 18:06	John P Hook	1
01750	Calcium	SW-846 6010B	1	131831848003	07/04/2013 18:06	John P Hook	1
07051	Chromium	SW-846 6010B	1	131831848003	07/04/2013 18:06	John P Hook	1
07055	Lead	SW-846 6010B	1	131831848003	07/04/2013 18:06	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131831848003	07/04/2013 18:06	John P Hook	1
07061	Nickel	SW-846 6010B	1	131831848003	07/04/2013 18:06	John P Hook	1
07036	Selenium	SW-846 6010B	1	131831848003	07/04/2013 18:06	John P Hook	1
07066	Silver	SW-846 6010B	1	131831848003	07/04/2013 18:06	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131831848003	07/04/2013 18:06	John P Hook	1
00259	Mercury	SW-846 7470A	1	131835713001	07/05/2013 15:58	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848003	07/02/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131835713001	07/03/2013 15:00	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13184807902A	07/03/2013 16:59	Michelle L Lalli	1

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

Sample Description: WS-006(0.5-1.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114149
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 13:50 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-62 SDG#: PEI68-22*

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

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

Sample Description: WS-006(0.5-1.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114149
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 13:50 by HV

ExxonMobil

Submitted: 07/02/2013 09:20

Mobil Pipeline Company

Reported: 07/10/2013 17:03

PO Box 4416

Houston TX 77210-4416

01-62 SDG#: PEI68-22*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
			ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	0.095	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	23.4	0.033	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	0.0297	0.0033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.30	0.0334	0.200	1

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

Sample Description: **WS-006(0.5-1.0)070113 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7114149**
 LL Group # **1401082**
 Account # **14739**

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

Collected: 07/01/2013 13:50 by HV ExxonMobil
 Submitted: 07/02/2013 09:20 Mobil Pipeline Company
 Reported: 07/10/2013 17:03 PO Box 4416
 Houston TX 77210-4416

01-62 SDG#: PEI68-22*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.47	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	2.2 J	1.4	5.0	1
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.						

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	C131841AA	07/03/2013 16:24	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131841AA	07/03/2013 16:24	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAA026	07/05/2013 16:52	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAA026	07/03/2013 18:15	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131916256001	07/10/2013 07:20	Nina C Haller	1
07035	Arsenic	SW-846 6010B	1	131831848002	07/04/2013 00:21	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131831848002	07/04/2013 00:21	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131831848002	07/04/2013 00:21	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131831848002	07/04/2013 00:21	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131831848002	07/04/2013 00:21	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131831848002	07/04/2013 00:21	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131831848002	07/04/2013 00:21	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131831848002	07/04/2013 00:21	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131831848002	07/04/2013 00:21	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131831848002	07/04/2013 00:21	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131831848002	07/04/2013 00:21	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131825713004	07/03/2013 18:44	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131831848002	07/02/2013 23:30	Annamaria Stipkovits	1

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

Sample Description: WS-006(0.5-1.0)070113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7114149
LL Group # 1401082
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/01/2013 13:50 by HV ExxonMobil
Mobil Pipeline Company
Submitted: 07/02/2013 09:20 PO Box 4416
Reported: 07/10/2013 17:03 Houston TX 77210-4416

01-62 SDG#: PEI68-22*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	131825713004	07/02/2013 15:15	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13189807901A	07/08/2013 09:18	Yolunder Y Bunch	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/10/13 at 05:03 PM

Group Number: 1401082

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: C131841AA	Sample number(s): 7114132-7114136, 7114138-7114145, 7114147-7114149								
Acetone	N.D.	3.0	5.0	ug/l	109		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	87		61-130		
Benzene	N.D.	0.1	0.5	ug/l	104		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	116		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	110		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	122		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	119		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	116		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	115		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	110		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	106		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	109		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	113		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	104		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	108		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	125		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	119		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	109		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	107		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	106		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104		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	119		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	103		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	113		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	111		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	110		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	126		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	105		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	103		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	109		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	99		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	102		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	105		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	115		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	98		61-125		

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1401082

Reported: 07/10/13 at 05:03 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		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	101		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	94		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	99		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	109		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Styrene	N.D.	0.1	0.5	ug/l	109		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	112		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	104		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	114		65-131		
Toluene	N.D.	0.1	0.5	ug/l	105		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	79		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	84		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	107		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	110		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	110		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	104		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	119		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	106		80-120		

Batch number: C131842AA

Sample number(s): 7114146

Acetone	N.D.	3.0	5.0	ug/l	104		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	85		61-130		
Benzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	115		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	108		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	119		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	116		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	101		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	112		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	109		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	104		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	107		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	113		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	102		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	106		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	104		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	115		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	111		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	108		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104		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	110		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	102		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	112		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	106		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1401082

Reported: 07/10/13 at 05:03 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>LCS D %REC</u>	<u>LCS/LCS D Limits</u>	<u>RPD</u>	<u>RPD Max</u>
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	123		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	108		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	104		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	103		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	106		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	97		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	102		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	105		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	109		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	95		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	99		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	96		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	102		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	107		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Styrene	N.D.	0.1	0.5	ug/l	108		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	111		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	104		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	101		65-131		
Toluene	N.D.	0.1	0.5	ug/l	104		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	77		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	83		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	104		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	110		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	105		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	107		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	118		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	105		80-120		

Batch number: C131911AA

Sample number(s): 7114145

Toluene	N.D.	0.1	0.5	ug/l	108	106	80-120	2	30
---------	------	-----	-----	------	-----	-----	--------	---	----

Batch number: G131832AA

Sample number(s): 7114128-7114131

Acetone	N.D.	3.0	5.0	ug/l	129		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	128		61-130		
Benzene	N.D.	0.1	0.5	ug/l	105		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	109		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	112		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	109		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	118		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	92		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	127		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	111		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	112		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	113		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	120		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	96		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	112		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: 1401082

Reported: 07/10/13 at 05:03 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>
Chloromethane	N.D.	0.2	0.5	ug/l	86		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	111		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	116		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	109		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	114		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	103		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	97		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	109		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	109		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	64		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	112		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	106		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	110		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	111		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	112		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	112		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	105		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	98		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	113		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	109		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	107		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	107		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	104		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	101		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	104		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	107		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	106		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	105		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	108		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	116		80-120		
Styrene	N.D.	0.1	0.5	ug/l	107		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	113		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	116		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	98		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	120		65-131		
Toluene	N.D.	0.1	0.5	ug/l	107		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	89		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	97		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	109		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	103		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	112		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	93		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	109		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	112		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	113		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	90		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	106		80-120		

Batch number: 13184WAA026

Sample number(s): 7114128,7114130-7114136,7114139-7114149

Acenaphthene	N.D.	0.010	0.050	ug/l	102	101	65-124	1	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	109	108	72-113	1	30
Anthracene	N.D.	0.010	0.050	ug/l	101	102	70-117	0	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	96	96	75-115	0	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: 1401082

Reported: 07/10/13 at 05:03 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(a) pyrene	N.D.	0.010	0.050	ug/l	104	103	72-120	1	30
Benzo(b) fluoranthene	N.D.	0.010	0.050	ug/l	112	113	74-130	0	30
Benzo(g,h,i) perylene	N.D.	0.010	0.050	ug/l	121	122*	63-121	1	30
Benzo(k) fluoranthene	N.D.	0.010	0.050	ug/l	103	105	74-118	2	30
Chrysene	N.D.	0.010	0.050	ug/l	102	105	75-112	3	30
Dibenz(a,h) anthracene	N.D.	0.010	0.050	ug/l	113	117	66-122	4	30
Fluoranthene	N.D.	0.010	0.050	ug/l	91	91	73-116	0	30
Fluorene	N.D.	0.010	0.050	ug/l	98	98	74-115	1	30
Indeno(1,2,3-cd) pyrene	N.D.	0.010	0.050	ug/l	116	118	66-122	2	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	104	103	72-114	1	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	98	98	74-119	0	30
Naphthalene	N.D.	0.030	0.050	ug/l	103	102	67-118	1	30
Phenanthrene	N.D.	0.030	0.050	ug/l	103	104	72-109	1	30
Pyrene	N.D.	0.010	0.050	ug/l	100	102	71-116	2	30

Batch number: 13187WAA026

Sample number(s): 7114129

Acenaphthene	N.D.	0.010	0.050	ug/l	109	107	65-124	2	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	92	90	72-113	1	30
Anthracene	N.D.	0.010	0.050	ug/l	97	96	70-117	2	30
Benzo(a) anthracene	N.D.	0.010	0.050	ug/l	103	98	75-115	5	30
Benzo(a) pyrene	N.D.	0.010	0.050	ug/l	96	94	72-120	2	30
Benzo(b) fluoranthene	N.D.	0.010	0.050	ug/l	119	111	74-130	7	30
Benzo(g,h,i) perylene	N.D.	0.010	0.050	ug/l	109	104	63-121	4	30
Benzo(k) fluoranthene	N.D.	0.010	0.050	ug/l	109	114	74-118	4	30
Chrysene	N.D.	0.010	0.050	ug/l	107	103	75-112	4	30
Dibenz(a,h) anthracene	N.D.	0.010	0.050	ug/l	109	97	66-122	11	30
Fluoranthene	N.D.	0.010	0.050	ug/l	111	111	73-116	0	30
Fluorene	N.D.	0.010	0.050	ug/l	100	100	74-115	0	30
Indeno(1,2,3-cd) pyrene	N.D.	0.010	0.050	ug/l	106	101	66-122	5	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	111	111	72-114	0	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	107	108	74-119	1	30
Naphthalene	N.D.	0.030	0.050	ug/l	104	104	67-118	0	30
Phenanthrene	N.D.	0.030	0.050	ug/l	103	103	72-109	0	30
Pyrene	N.D.	0.010	0.050	ug/l	103	101	71-116	2	30

Batch number: 131825713004

Sample number(s): 7114149

Mercury	N.D.	0.00006	0.00020	mg/l	98		80-120		
		0							

Batch number: 131831848002

Sample number(s): 7114149

Arsenic	N.D.	0.0068	0.0200	mg/l	104		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	104		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	104		90-112		
Calcium	N.D.	0.0334	0.200	mg/l	103		90-110		
Chromium	N.D.	0.0016	0.0150	mg/l	104		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	103		88-110		
Magnesium	N.D.	0.0167	0.100	mg/l	101		90-110		
Nickel	N.D.	0.0015	0.0100	mg/l	106		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	101		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	115		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	102		90-110		

Batch number: 131831848003

Sample number(s): 7114128-7114137, 7114139-7114148

Arsenic	N.D.	0.0068	0.0200	mg/l	105		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	103		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	102		90-112		

*- 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: 1401082

Reported: 07/10/13 at 05:03 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>
Calcium	N.D.	0.0334	0.200	mg/l	100		90-110		
Chromium	N.D.	0.0016	0.0150	mg/l	102		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	101		88-110		
Magnesium	0.0255 J	0.0167	0.100	mg/l	100		90-110		
Nickel	N.D.	0.0015	0.0100	mg/l	105		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	99		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	114		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	101		90-110		

Batch number: 131835713001
Mercury

Sample number(s): 7114128-7114137,7114139-7114148
N.D. 0.00006 0.00020 mg/l 102

80-120

Batch number: 13184807902A
HEM (oil & grease)

Sample number(s): 7114128-7114136,7114139-7114144,7114146,7114148
N.D. 1.4 5.0 mg/l 98 100 78-114

2

16

Batch number: 13189807901A
HEM (oil & grease)

Sample number(s): 7114145,7114147,7114149
N.D. 1.4 5.0 mg/l 94 95 78-114

1

16

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: C131841AA	Sample number(s): 7114132-7114136,7114138-7114145,7114147-7114149 UNSPK: 7114132								
Acetone	109	113	57-163	3	30				
Allyl Chloride	84	93	67-139	10	30				
Benzene	97	106	87-126	9	30				
Bromobenzene	94	106	80-123	12	30				
Bromochloromethane	111	118	82-125	6	30				
Bromodichloromethane	99	110	82-133	10	30				
Bromoform	110	124	60-138	12	30				
Bromomethane	120	123	41-145	2	30				
2-Butanone	94	104	63-146	10	30				
n-Butylbenzene	96	105	83-131	9	30				
sec-Butylbenzene	96	106	84-128	10	30				
tert-Butylbenzene	95	109	84-135	13	30				
Carbon Tetrachloride	111	117	81-148	6	30				
Chlorobenzene	103	113	78-133	10	30				
Chloroethane	110	116	70-139	5	30				
Chloroform	101	108	86-136	7	30				
Chloromethane	117	124	55-152	6	30				
2-Chlorotoluene	96	106	81-120	10	30				
4-Chlorotoluene	98	109	82-119	12	30				
1,2-Dibromo-3-chloropropane	100	108	43-143	7	30				
Dibromochloromethane	106	118	79-125	11	30				
1,2-Dibromoethane	99	110	84-127	11	30				
Dibromomethane	98	107	83-126	9	30				
1,2-Dichlorobenzene	98	108	83-117	10	30				
1,3-Dichlorobenzene	97	108	81-118	11	30				
1,4-Dichlorobenzene	98	108	79-120	10	30				

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/10/13 at 05:03 PM

Group Number: 1401082

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Dichlorodifluoromethane	124	124	28-136	0	30				
1,1-Dichloroethane	95	104	88-136	8	30				
1,2-Dichloroethane	101	110	82-135	8	30				
1,1-Dichloroethene	104	114	83-150	9	30				
cis-1,2-Dichloroethene	96	106	82-129	9	30				
trans-1,2-Dichloroethene	102	110	88-127	8	30				
Dichlorofluoromethane	131	136	59-176	3	30				
1,2-Dichloropropane	100	110	91-126	10	30				
1,3-Dichloropropane	96	107	80-127	11	30				
2,2-Dichloropropane	98	109	80-134	10	30				
1,1-Dichloropropene	102	112	86-139	9	30				
cis-1,3-Dichloropropene	84	97	74-132	14	30				
trans-1,3-Dichloropropene	91	103	71-128	13	30				
Ethyl ether	103	110	67-127	7	30				
Ethylbenzene	97	107	80-140	9	30				
Freon 113	108	115	87-158	7	30				
Hexachlorobutadiene	93	103	65-128	10	30				
Isopropylbenzene	97	108	81-133	11	30				
p-Isopropyltoluene	95	106	84-124	10	30				
Methyl Tertiary Butyl Ether	85	94	82-132	10	30				
4-Methyl-2-Pentanone	92	109	69-149	17	30				
Methylene Chloride	98	107	84-122	9	30				
n-Propylbenzene	95	106	79-131	11	30				
Styrene	102	113	63-151	10	30				
1,1,1,2-Tetrachloroethane	104	116	87-126	11	30				
1,1,2,2-Tetrachloroethane	95	108	75-131	13	30				
Tetrachloroethene	101	111	75-129	9	30				
Tetrahydrofuran	93	99	56-154	5	30				
Toluene	99	108	83-127	8	30				
1,2,3-Trichlorobenzene	72*	83	73-125	15	30				
1,2,4-Trichlorobenzene	75*	87	77-120	14	30				
1,1,1-Trichloroethane	101	110	85-140	8	30				
1,1,2-Trichloroethane	100	113	85-129	12	30				
Trichloroethene	101	111	85-131	9	30				
Trichlorofluoromethane	116	117	67-161	1	30				
1,2,3-Trichloropropane	98	114	76-120	15	30				
1,2,4-Trimethylbenzene	96	106	87-126	10	30				
1,3,5-Trimethylbenzene	95	107	89-129	12	30				
Vinyl Chloride	127	134	65-151	5	30				
Xylene (Total)	99	110	81-137	10	30				
Batch number: C131842AA Sample number(s): 7114146 UNSPK: P116357									
Acetone	130	94	57-163	28	30				
Allyl Chloride	88	93	67-139	6	30				
Benzene	109	109	87-126	0	30				
Bromobenzene	104	103	80-123	1	30				
Bromochloromethane	116	120	82-125	3	30				
Bromodichloromethane	112	111	82-133	1	30				
Bromoform	118	116	60-138	2	30				
Bromomethane	121	129	41-145	6	30				
2-Butanone	106	93	63-146	13	30				
n-Butylbenzene	100	103	83-131	3	30				

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/10/13 at 05:03 PM

Group Number: 1401082

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
sec-Butylbenzene	102	105	84-128	3	30				
tert-Butylbenzene	100	107	84-135	6	30				
Carbon Tetrachloride	124	122	81-148	2	30				
Chlorobenzene	113	113	78-133	0	30				
Chloroethane	113	117	70-139	3	30				
Chloroform	112	113	86-136	0	30				
Chloromethane	121	126	55-152	4	30				
2-Chlorotoluene	103	105	81-120	2	30				
4-Chlorotoluene	106	108	82-119	2	30				
1,2-Dibromo-3-chloropropane	111	97	43-143	14	30				
Dibromochloromethane	117	116	79-125	1	30				
1,2-Dibromoethane	110	108	84-127	1	30				
Dibromomethane	108	108	83-126	0	30				
1,2-Dichlorobenzene	105	105	83-117	1	30				
1,3-Dichlorobenzene	103	105	81-118	2	30				
1,4-Dichlorobenzene	105	106	79-120	1	30				
Dichlorodifluoromethane	120	122	28-136	2	30				
1,1-Dichloroethane	107	107	88-136	0	30				
1,2-Dichloroethane	112	112	82-135	0	30				
1,1-Dichloroethene	118	117	83-150	1	30				
cis-1,2-Dichloroethene	109	109	82-129	0	30				
trans-1,2-Dichloroethene	116	116	88-127	1	30				
Dichlorofluoromethane	132	135	59-176	2	30				
1,2-Dichloropropane	112	112	91-126	0	30				
1,3-Dichloropropane	104	105	80-127	1	30				
2,2-Dichloropropane	113	112	80-134	1	30				
1,1-Dichloropropene	115	116	86-139	1	30				
cis-1,3-Dichloropropene	97	99	74-132	2	30				
trans-1,3-Dichloropropene	101	102	71-128	1	30				
Ethyl ether	106	105	67-127	0	30				
Ethylbenzene	107	107	80-140	1	30				
Freon 113	121	121	87-158	0	30				
Hexachlorobutadiene	90	98	65-128	8	30				
Isopropylbenzene	106	108	81-133	1	30				
p-Isopropyltoluene	101	104	84-124	3	30				
Methyl Tertiary Butyl Ether	94	95	82-132	1	30				
4-Methyl-2-Pentanone	100	101	69-149	1	30				
Methylene Chloride	114	113	84-122	0	30				
n-Propylbenzene	103	104	79-131	2	30				
Styrene	111	110	63-151	1	30				
1,1,1,2-Tetrachloroethane	112	113	87-126	1	30				
1,1,2,2-Tetrachloroethane	103	106	75-131	2	30				
Tetrachloroethene	112	112	75-129	1	30				
Tetrahydrofuran	104	90	56-154	14	30				
Toluene	76*	71*	83-127	5	30				
1,2,3-Trichlorobenzene	73	80	73-125	9	30				
1,2,4-Trichlorobenzene	79	83	77-120	5	30				
1,1,1-Trichloroethane	116	115	85-140	1	30				
1,1,2-Trichloroethane	109	111	85-129	1	30				
Trichloroethene	114	113	85-131	1	30				
Trichlorofluoromethane	120	119	67-161	1	30				
1,2,3-Trichloropropane	107	106	76-120	0	30				

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/10/13 at 05:03 PM

Group Number: 1401082

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
1,2,4-Trimethylbenzene	103	106	87-126	2	30				
1,3,5-Trimethylbenzene	106	107	89-129	1	30				
Vinyl Chloride	132	137	65-151	4	30				
Xylene (Total)	109	109	81-137	0	30				

Batch number: G131832AA	Sample number(s): 7114128-7114131	UNSPK: P113716			
Acetone	121	122	57-163	1	30
Allyl Chloride	141*	148*	67-139	5	30
Benzene	111	117	87-126	5	30
Bromobenzene	112	120	80-123	7	30
Bromochloromethane	114	119	82-125	5	30
Bromodichloromethane	113	119	82-133	6	30
Bromoform	120	128	60-138	7	30
Bromomethane	96	97	41-145	1	30
2-Butanone	111	114	63-146	2	30
n-Butylbenzene	124	130	83-131	5	30
sec-Butylbenzene	124	129*	84-128	4	30
tert-Butylbenzene	122	127	84-135	4	30
Carbon Tetrachloride	132	139	81-148	5	30
Chlorobenzene	112	117	78-133	4	30
Chloroethane	103	103	70-139	0	30
Chloroform	118	123	86-136	5	30
Chloromethane	91	91	55-152	1	30
2-Chlorotoluene	120	126*	81-120	4	30
4-Chlorotoluene	122*	127*	82-119	4	30
1,2-Dibromo-3-chloropropane	98	100	43-143	2	30
Dibromochloromethane	115	124	79-125	7	30
1,2-Dibromoethane	104	110	84-127	6	30
Dibromomethane	100	106	83-126	6	30
1,2-Dichlorobenzene	112	118*	83-117	5	30
1,3-Dichlorobenzene	115	122*	81-118	6	30
1,4-Dichlorobenzene	114	118	79-120	4	30
Dichlorodifluoromethane	67	59	28-136	11	30
1,1-Dichloroethane	118	125	88-136	5	30
1,2-Dichloroethane	111	117	82-135	5	30
1,1-Dichloroethene	121	127	83-150	5	30
cis-1,2-Dichloroethene	114	118	82-129	4	30
trans-1,2-Dichloroethene	121	128*	88-127	6	30
Dichlorofluoromethane	118	120	59-176	2	30
1,2-Dichloropropane	117	124	91-126	6	30
1,3-Dichloropropane	107	113	80-127	5	30
2,2-Dichloropropane	108	113	80-134	5	30
1,1-Dichloropropene	126	132	86-139	5	30
cis-1,3-Dichloropropene	110	117	74-132	6	30
trans-1,3-Dichloropropene	109	115	71-128	6	30
Ethyl ether	106	111	67-127	4	30
Ethylbenzene	115	120	80-140	4	30
Freon 113	118	112	87-158	5	30
Hexachlorobutadiene	115	120	65-128	5	30
Isopropylbenzene	114	120	81-133	5	30
p-Isopropyltoluene	121	126*	84-124	5	30
Methyl Tertiary Butyl Ether	108	113	82-132	5	30

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/10/13 at 05:03 PM

Group Number: 1401082

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
4-Methyl-2-Pentanone	105	111	69-149	6	30				
Methylene Chloride	112	119	84-122	6	30				
n-Propylbenzene	125	133*	79-131	6	30				
Styrene	112	117	63-151	5	30				
1,1,1,2-Tetrachloroethane	118	123	87-126	4	30				
1,1,2,2-Tetrachloroethane	118	123	75-131	4	30				
Tetrachloroethene	108	112	75-129	4	30				
Tetrahydrofuran	106	108	56-154	2	30				
Toluene	115	121	83-127	5	30				
1,2,3-Trichlorobenzene	97	105	73-125	9	30				
1,2,4-Trichlorobenzene	105	114	77-120	8	30				
1,1,1-Trichloroethane	118	126	85-140	6	30				
1,1,2-Trichloroethane	106	110	85-129	4	30				
Trichloroethene	120	126	85-131	5	30				
Trichlorofluoromethane	100	97	67-161	4	30				
1,2,3-Trichloropropane	109	116	76-120	6	30				
1,2,4-Trimethylbenzene	121	128*	87-126	5	30				
1,3,5-Trimethylbenzene	121	128	89-129	6	30				
Vinyl Chloride	98	97	65-151	0	30				
Xylene (Total)	115	120	81-137	5	30				
Batch number: 131825713004 Sample number(s): 7114149 UNSPK: P113717 BKG: P113717									
Mercury	101	99	80-120	2	20	N.D.	N.D.	0 (1)	20
Batch number: 131831848002 Sample number(s): 7114149 UNSPK: P113742 BKG: P113742									
Arsenic	106	106	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	104	105	78-118	1	20	0.0414	0.0409	1	20
Cadmium	102	102	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	100	103	81-118	1	20	5.41	5.42	0	20
Chromium	105	106	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	102	102	75-125	0	20	N.D.	N.D.	0 (1)	20
Magnesium	101	104	75-125	1	20	2.57	2.53	1	20
Nickel	104	104	86-115	0	20	0.0020 J	N.D.	200* (1)	20
Selenium	100	100	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	115	117	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	103	103	90-111	1	20	0.0026 J	0.0025 J	6 (1)	20
Batch number: 131831848003 Sample number(s): 7114128-7114137,7114139-7114148 UNSPK: 7114130 BKG: 7114130									
Arsenic	107	106	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	104	104	78-118	0	20	0.0268	0.0263	2	20
Cadmium	103	102	83-116	0	20	N.D.	N.D.	0 (1)	20
Calcium	101	101	81-118	0	20	5.30	5.22	2	20
Chromium	103	103	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	101	99	75-125	2	20	N.D.	N.D.	0 (1)	20
Magnesium	99	98	75-125	0	20	2.47	2.43	2	20
Nickel	105	104	86-115	1	20	N.D.	N.D.	0 (1)	20
Selenium	99	99	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	115	114	75-125	0	20	N.D.	N.D.	0 (1)	20
Vanadium	102	101	90-111	1	20	N.D.	N.D.	0 (1)	20
Batch number: 131835713001 Sample number(s): 7114128-7114137,7114139-7114148 UNSPK: 7114133 BKG: 7114133									
Mercury	94	94	80-120	0	20	0.00067	0.00063	6 (1)	20

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1401082

Reported: 07/10/13 at 05:03 PM

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %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: 13184807902A HEM (oil & grease)			Sample number(s): 7114128-7114136, 7114139-7114144, 7114146, 7114148 73* 78-114						UNSPK: 7114148
Batch number: 13189807901A HEM (oil & grease)			Sample number(s): 7114145, 7114147, 7114149 84 78-114						UNSPK: P114526

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: BTEX 25-ml purge

Batch number: C131841AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7114132	109	106	99	95
7114133	112	105	98	95
7114134	111	106	98	94
7114135	111	106	99	94
7114136	111	105	99	94
7114138	109	107	99	94
7114139	111	105	98	94
7114140	111	106	98	94
7114141	111	106	99	94
7114142	112	108	98	93
7114143	111	106	99	94
7114144	111	103	98	94
7114145	112	108	96	93
7114147	110	104	97	94
7114148	111	104	98	94
7114149	110	108	98	94
Blank	110	107	98	94
LCS	106	105	102	101
MS	106	103	103	102
MSD	106	102	102	101
Limits:	77-114	74-113	77-110	78-110

Analysis Name: BTEX 25-ml purge

Batch number: C131842AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7114146	110	106	95	92
Blank	110	106	98	94
LCS	106	104	102	101
MS	106	106	102	101
MSD	106	104	101	100

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/10/13 at 05:03 PM

Group Number: 1401082

Surrogate Quality Control

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

Analysis Name: BTEX 25-ml purge

Batch number: G131832AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7114128	102	96	100	98
7114129	102	99	99	98
7114130	101	96	100	97
7114131	101	96	100	98
Blank	100	96	100	98
LCS	100	92	101	101
MS	102	94	101	101
MSD	100	94	101	100

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

Analysis Name: PAHs in waters by SIM

Batch number: 13184WAA026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7114128	77	60*	96
7114130	79	76	96
7114131	77	71	94
7114132	69	71	92
7114133	74	67	86
7114134	77	69	89
7114135	77	68	92
7114136	78	68	88
7114139	59*	77	81
7114140	77	61*	90
7114141	74	64	88
7114142	81	62	94
7114143	78	58*	93
7114144	58*	69	79
7114145	65	74	85
7114146	60*	78	89
7114147	50*	58*	70
7114148	72	62	86
7114149	76	62	89
Blank	82	99	94
LCS	81	100	99
LCSD	79	99	98

Limits: 64-120 62-141 58-134

Analysis Name: PAHs in waters by SIM

Batch number: 13187WAA026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7114129	102	76	101
Blank	97	89	99
LCS	100	94	104
LCSD	100	90	104

*- Outside of specification

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

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

Quality Control SummaryClient Name: ExxonMobil
Reported: 07/10/13 at 05:03 PM

Group Number: 1401082

Surrogate Quality Control

Limits: 64-120 62-141 58-134

*- Outside of specification

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

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

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 14739

For Eurofins Lancaster Laboratories use only
 Group # 1401082 Sample # 7114128-49
Instructions on reverse side correspond with circled numbers.

1062

1 Client Information				4 Matrix			5 Analyses Requested								SCR#: _____																												
Facility #/SID <u>Mayflower Pipeline Incident</u>				Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/>	Ground <input type="checkbox"/> Surface <input checked="" type="checkbox"/>	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>						<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px;">H</td><td style="width: 20px;">N</td><td style="width: 20px;">H</td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td><td style="width: 20px;"></td> </tr> <tr> <td style="text-align: center;">X</td><td style="text-align: center;">X</td><td style="text-align: center;">X</td><td style="text-align: center;">X</td><td style="text-align: center;">X</td><td style="text-align: center;">X</td><td style="text-align: center;">X</td><td style="text-align: center;">X</td><td style="text-align: center;">X</td><td style="text-align: center;">X</td><td style="text-align: center;">X</td><td style="text-align: center;">X</td><td style="text-align: center;">X</td><td style="text-align: center;">X</td><td style="text-align: center;">X</td> </tr> </table>										H	N	H													X	X	X	X	X	X	X	X	X	X	X	X	X
H	N	H																																									
X	X	X	X			X	X	X	X	X	X	X	X	X	X	X																											
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE		Total # of Containers VOCs 8260 B PAH 8270 SIM Hardness PCRAmetals + Ni, Cu, V, Mg HEM Oil & Grease								6 Remarks Data Analysis Questions: Lyndi Mott/ Arcadis																															
Consultant/Office <u>Arcadis- US</u>																																											
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919 302 6799</u>																																									
Sampler <u>H. Van Aller / B. Nicholson / A. Lewis</u>				3																																							
2 Sample Identification		Collected		Grab	Composite																																						
		Date	Time																																								
<u>WS-011(1.5-2.0)070113</u>		<u>7/1/13</u>	<u>910</u>	X		X		8	X	X	X	X																															
<u>WS-011(5.5-6.0)070113</u>			<u>930</u>	X		X		8	X	X	X	X																															
<u>WS-014(1.5-2.0)070113</u>			<u>1020</u>	X		X		8	X	X	X	X																															
<u>WS-014(5.0-5.5)070113</u>			<u>1030</u>	X		X		8	X	X	X	X																															
<u>WS-012(1.5-2.0)070113</u>			<u>1100</u>	X		X		8	X	X	X	X																															
<u>WS-012(5.0-5.5)070113</u>			<u>1120</u>	X		X		8	X	X	X	X																															
<u>WS-010(1.5-2.0)070113</u>			<u>1130</u>	X		X		8	X	X	X	X																															
<u>WS-010(3.0-3.5)070113</u>			<u>1140</u>	X		X		8	X	X	X	X																															
<u>WS-018(surface)070113</u>			<u>1250</u>	X		X		8	X	X	X	X																															
<u>WS-FB-39-070113</u>			<u>1300</u>	X		X		1			X																																
<u>WS-TB-87-070113</u>			<u>---</u>	X		X		2	X																																		
<u>DUF-WS-49-070113</u>		↓	<u>---</u>	X		X		8	X	X	X	X																															
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>H. Van Aller</u>		Date <u>7/1/13</u>	Time <u>1700</u>	Received by		Date	Time	9																															
Standard <u>5 day</u> 4 day																																											
72 hour 48 hour 24 hour																																											
8 Data Package (circle if required)				Relinquished by		Date	Time	Received by		Date	Time																																
Type I - Full				EDD (circle if required)																																							
Type VI (Raw Data)				Locus EIM (default)																																							
NJ Reduced				Other _____																																							
Other _____				Relinquished by Commercial Carrier				Received by <u>Melora Reed</u>		Date <u>7/2/13</u>	Time <u>0920</u>																																
				UPS _____ FedEx <u>X</u> Other _____		Temperature Upon Receipt <u>0.6-2.1 °C</u>		Custody Seals Intact?		<u>Yes</u>	No																																

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 14739

For Eurofins Lancaster Laboratories use only
 Group # 1401082 Sample # 7114128-49
 Instructions on reverse side correspond with circled numbers.

2 of 2

1 Client Information				4 Matrix				5 Analyses Requested								SCR#: _____	
Facility #/SID <u>Mayflower Pipeline Incident</u>				Sediment <input type="checkbox"/>	Ground <input type="checkbox"/>	Surface <input checked="" type="checkbox"/>	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>							Potable <input type="checkbox"/>	NPDES <input type="checkbox"/>	Air <input type="checkbox"/>								
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE		Soil <input type="checkbox"/>	Water <input type="checkbox"/>	Oil <input type="checkbox"/>				Total # of Containers							
Consultant/Office <u>Arcadis-US</u>							Composite <input type="checkbox"/>	Grab <input type="checkbox"/>	VOCs <u>8260 B</u>		PAH <u>8270 SIM</u>	PCRA metals <u>hardness, Ni, Cr, V, Mg</u>	HEM <u>Oil & Grease</u>				
Consultant PM <u>Steve Barrick</u>		Consultant Phone # <u>919 302 6799</u>															
Sampler <u>H. Van Aller / B. Nicholson / B. Lewis</u>																	
2 Sample Identification		Collected		3													
		Date	Time	Grab	Composite												
WS-003 (surface) 070113		7/1/13	0900	X		X		8	X	X	X	X					
WS-002 (surface) 070113			1010	X		X		8	X	X	X	X					
WS-001 (surface) 070113			1110	X		X		8	X	X	X	X					
WS-001 (0.5-1.0) 070113			1120	X		X		8	X	X	X	X					
WS-004 (surface) 070113			1150	X		X		8	X	X	X	Y					
WS-004 (0.5-1.0) 070113			1200	X		X		8	X	X	X	X					
WS-007 (surface) 070113			1220	X		X		8	X	X	X	X					
WS-007 (0.5-1.0) 070113			1230	X		X		8	X	X	X	X					
WS-006 (surface) 070113			1340	X		X		8	X	X	X	X					
WS-006 (0.5-1.0) 070113			1350	X		X		8	X	X	X	X					

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by <u>H. Van Aller</u>		Date <u>7/1/13</u>	Time <u>1700</u>	Received by	Date	Time	9
Standard (5 day) 4 day			Relinquished by		Date	Time	Received by	Date	Time	
72 hour 48 hour 24 hour			Relinquished by		Date	Time	Received by	Date	Time	
8 Data Package (circle if required)			Relinquished by Commercial Carrier		Temperature Upon Receipt <u>0.6-2.1 °C</u>		Received by <u>Deborah Nesel</u>	Date <u>7/2/13</u>	Time <u>0920</u>	
Type I - Full			EDD (circle if required)		Custody Seals Intact? (Yes) No					
Type VI (Raw Data)			Locus EIM (default)							
NJ Reduced			Other _____							
Other _____			Other _____							

Rachel L. Kreamer

A# 14739 Gr# 1401082 Samples 7114128-49

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Tuesday, July 02, 2013 4:00 PM
To: Rachel L. Kreamer; Kathy Klinefelter
Cc: Parmelee, Rhiannon; Lipka, Shelby; Van Aller, Hans
Subject: RE: O&G samples received today.

Rachel,

Assume the sample Ids on the lids are correct and the labels have been switched.

Lyndi Mott | Project Chemistry/Data Quality Specialist | lyndi.mott@arcadis-us.com ARCADIS U.S., Inc. | 2929 Briarpark Drive | Suite 300 | Houston, TX 77042 T. 713.953.4829 | T. 832.534.8140 | M. 315.569.9448 www.arcadis-us.com ARCADIS, Imagine the result Please consider the environment before printing this email.

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

From: Van Aller, Hans
Sent: Tuesday, July 02, 2013 2:58 PM
To: Mott, Lyndi; Lipka, Shelby
Cc: Parmelee, Rhiannon
Subject: RE: O&G samples received today.

I would think the labels are mixed up. I collected the samples on the boat then go to the storage unit and label the jars, that is why I think labels could have been mixed up not tops.

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

From: Mott, Lyndi
Sent: Tuesday, July 02, 2013 3:49 PM
To: Lipka, Shelby; Van Aller, Hans
Cc: Parmelee, Rhiannon
Subject: FW: O&G samples received today.

Can either of you answer the question below about the sample Id on the lids vs the labels for oil & grease?

Lyndi

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

From: Rachel L. Kreamer [mailto:RKreamer@lancasterlabs.com]
Sent: Tuesday, July 02, 2013 2:23 PM
To: Mott, Lyndi
Cc: Kathy Klinefelter
Subject: O&G samples received today.

Lyndi,

The O&G bottles for the samples on Page 1 of the attached chains had the locations written on the lids. For the two samples noted on the documentation log, the lid IDs matched the other sample rather than the label on the jar. Should we assume that the lids mixed up and the labels are correct?

Thanks
Rachel

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

From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Tuesday, July 02, 2013 2:48 PM
To: Rachel L. Kreamer
Subject:

Environmental Sample Administration
Receipt Documentation Log

1401082

Client/Project: XOM Mayflower

Shipping Container Sealed: YES NO

Date of Receipt: 7/2/13

Custody Seal Present * : YES NO

Time of Receipt: 0920

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

Source Code: 50-1

Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	2.1	TB	WI	Y	B	
2	↓	1.0	↓	↓	↓	↓	
3		1.9					
4		1.3					
5		0.6					
6		1.2					

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

Paperwork Discrepancy/Unpacking Problems:

WS-010 (1.5-2.0) + WS-017 (5.0-5.5) Label + lid reversed
x1 O+G bottle only

Unpacker Signature/Emp#:

S. Slesund / 208

Date/Time:

7/2/13 / 0945

Issued by Dept. 6042 Management

Environmental Sample Administration
Receipt Documentation Log

1401082

Client/Project: XOM Mayflower

Shipping Container Sealed: YES NO

Date of Receipt: 7/2/13

Custody Seal Present * : YES NO

Time of Receipt: 0920

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

Source Code: 50-1

Package: Chilled Not Chilled

Temperature of Shipping Containers

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

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: D. Anderson / 208 Date/Time: 7/2/13 / 0945

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 limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.