

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 08, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 06/27/2013

Group Number: 1400144

SDG: PEI54

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
WS-003(Surface)062613 Grab Surface Water	7108849
WS-002(Surface)062613 Grab Surface Water	7108850
WS-005(Surface)062613 Grab Surface Water	7108851
WS-001(Surface)062613 Grab Surface Water	7108852
WS-001(0.5-1.0)062613 Grab Surface Water	7108853
WS-004(Surface)062613 Grab Surface Water	7108854
WS-004(0.5-1.0)062613 Grab Surface Water	7108855
WS-007(Surface)062613 Grab Surface Water	7108856
WS-007(Surface)062613MS Grab Surface Water	7108857
WS-007(Surface)062613MSD Grab Surface Water	7108858
WS-007(Surface)062613DUP Grab Surface Water	7108859
WS-007(0.5-1.0)062613 Grab Surface Water	7108860
WS-006(Surface)062613 Grab Surface Water	7108861
WS-006(0.5-1.0)062613 Grab Surface Water	7108862
WS-TB-83-062613 Water	7108863

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

ELECTRONIC COPY TO
ARCADIS

Attn: Stephen Barrick

ELECTRONIC COPY TO
ARCADIS

Attn: Lyndi Mott

ELECTRONIC COPY TO
ExxonMobil

Attn: Michael J. Firth

ELECTRONIC COPY TO
ARCADIS

Attn: Emily Leamer

ELECTRONIC COPY TO	ARCADIS	Attn: Rhiannon Parmalee
ELECTRONIC COPY TO	ARCADIS	Attn: Jamie Pritchard
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael L Sixsmith
ELECTRONIC COPY TO	ExxonMobil	Attn: Julie Foster
ELECTRONIC COPY TO	ExxonMobil	Attn: Carl Wideman

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1400144

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

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

Batch #: I131781AA (Sample number(s): 7108849-7108855, 7108863 UNSPK: P107523)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Freon 113, Methyl Tertiary Butyl Ether, Dibromochloromethane

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13178WAF026 (Sample number(s): 7108849-7108858, 7108860-7108862 UNSPK: 7108856)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7108849, 7108860, 7108861

Sample #s: 7108850, 7108851, 7108852, 7108853, 7108854, 7108855, 7108856, 7108862

Naphthalene was detected in the method blank associated with the samples as noted on the QC Summary. Since the result is < the LOQ, the data is reported.

Sample #s: 7108849

Naphthalene was detected in the method blank associated with the samples as noted on the QC Summary. Since the result is < the LOQ, the data is reported.

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: 7108861

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 outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

SW-846 6010B, Metals

Batch #: 131781848002 (Sample number(s): 7108849-7108862 UNSPK: 7108856 BKG:
7108856)

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

Sample Description: WS-003(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108849
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 09:00 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26003 SDG#: PEI54-01

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

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

Sample Description: WS-003(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108849
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 09:00 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26003 SDG#: PEI54-01

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.	0.010	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	0.055	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

Naphthalene was detected in the method blank associated with the samples as noted on the QC Summary. Since the result is < the LOQ, the data is reported.

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	25.4	0.033	0.20

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

Sample Description: WS-003(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108849
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 09:00 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/27/2013 09:30

PO Box 4416

Reported: 07/08/2013 12:33

Houston TX 77210-4416

26003 SDG#: PEI54-01

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	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0240	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.80	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	2.64	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

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	I131781AA	06/27/2013 19:41	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131781AA	06/27/2013 19:41	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13178WAF026	07/02/2013 22:26	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13178WAF026	06/27/2013 23:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 09:20	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131781848002	06/28/2013 07:32	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131781848002	06/28/2013 07:32	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131781848002	06/28/2013 07:32	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131781848002	06/28/2013 07:32	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131781848002	06/28/2013 07:32	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131781848002	06/28/2013 07:32	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131781848002	06/28/2013 07:32	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131781848002	06/28/2013 07:32	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131781848002	06/28/2013 07:32	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131781848002	06/28/2013 07:32	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131781848002	06/28/2013 07:32	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131785713002	06/30/2013 17:25	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131781848002	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131785713002	06/27/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108850
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 09:50 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26002 SDG#: PEI54-02

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

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

Sample Description: WS-002(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108850
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 09:50 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26002 SDG#: PEI54-02

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	0.054	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
Naphthalene was detected in the method blank associated with the samples as noted on the QC Summary. Since the result is < the LOQ, the data is reported.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	22.5	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	0.0184	0.00033	0.0050	1

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

Sample Description: WS-002(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108850
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 09:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/27/2013 09:30

PO Box 4416

Reported: 07/08/2013 12:33

Houston TX 77210-4416

26002 SDG#: PEI54-02

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	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.17	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	2.33	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

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	I131781AA	06/27/2013 20:01	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131781AA	06/27/2013 20:01	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13178WAF026	07/02/2013 22:56	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13178WAF026	06/27/2013 23:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 09:20	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131781848002	06/28/2013 07:44	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131781848002	06/28/2013 07:44	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131781848002	06/28/2013 07:44	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131781848002	06/28/2013 07:44	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131781848002	06/28/2013 07:44	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131781848002	06/28/2013 07:44	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131781848002	06/28/2013 07:44	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131781848002	06/28/2013 07:44	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131781848002	06/28/2013 07:44	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131781848002	06/28/2013 07:44	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131781848002	06/28/2013 07:44	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131785713002	06/30/2013 17:27	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131781848002	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131785713002	06/27/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108851
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 10:20 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26005 SDG#: PEI54-03

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

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

Sample Description: WS-005(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108851
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 10:20 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26005 SDG#: PEI54-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	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	0.047 J	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
Naphthalene was detected in the method blank associated with the samples as noted on the QC Summary. Since the result is < the LOQ, the data is reported.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	22.1	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	0.0140	0.00033	0.0050	1

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

Sample Description: WS-005(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108851
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 10:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/27/2013 09:30

PO Box 4416

Reported: 07/08/2013 12:33

Houston TX 77210-4416

26005 SDG#: PEI54-03

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	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.10	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	2.29	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	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

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	I131781AA	06/27/2013 20:22	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131781AA	06/27/2013 20:22	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13178WAF026	07/02/2013 23:26	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13178WAF026	06/27/2013 23:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 09:20	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131781848002	06/28/2013 07:47	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131781848002	06/28/2013 07:47	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131781848002	06/28/2013 07:47	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131781848002	06/28/2013 07:47	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131781848002	06/28/2013 07:47	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131781848002	06/28/2013 07:47	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131781848002	06/28/2013 07:47	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131781848002	06/28/2013 07:47	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131781848002	06/28/2013 07:47	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131781848002	06/28/2013 07:47	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131781848002	06/28/2013 07:47	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131785713002	06/30/2013 17:29	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131781848002	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131785713002	06/27/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-001(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108852
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 10:40 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26011 SDG#: PEI54-04

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-001(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108852
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 10:40 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26011 SDG#: PEI54-04

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	0.059	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
Naphthalene was detected in the method blank associated with the samples as noted on the QC Summary. Since the result is < the LOQ, the data is reported.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	24.0	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	0.0323	0.00033	0.0050	1

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

Sample Description: WS-001(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108852
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 10:40 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/27/2013 09:30

PO Box 4416

Reported: 07/08/2013 12:33

Houston TX 77210-4416

26011 SDG#: PEI54-04

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	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.52	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	2.49	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

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	I131781AA	06/27/2013 20:43	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131781AA	06/27/2013 20:43	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13178WAF026	07/02/2013 23:55	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13178WAF026	06/27/2013 23:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 09:20	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131781848002	06/28/2013 07:51	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131781848002	06/28/2013 07:51	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131781848002	06/28/2013 07:51	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131781848002	06/28/2013 07:51	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131781848002	06/28/2013 07:51	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131781848002	06/28/2013 07:51	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131781848002	06/28/2013 07:51	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131781848002	06/28/2013 07:51	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131781848002	06/28/2013 07:51	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131781848002	06/28/2013 07:51	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131781848002	06/28/2013 07:51	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131785713002	06/30/2013 17:31	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131781848002	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131785713002	06/27/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108853
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 10:50 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26012 SDG#: PEI54-05

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

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

Sample Description: WS-001(0.5-1.0)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108853
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 10:50 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26012 SDG#: PEI54-05

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	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	0.011 J	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	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	0.074	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
Naphthalene was detected in the method blank associated with the samples as noted on the QC Summary. Since the result is < the LOQ, the data is reported.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	24.6	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	0.0382	0.00033	0.0050	1

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

Sample Description: WS-001(0.5-1.0)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108853
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 10:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/27/2013 09:30

PO Box 4416

Reported: 07/08/2013 12:33

Houston TX 77210-4416

26012 SDG#: PEI54-05

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	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.62	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0022 J	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.57	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0024 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	0.0023 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

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	I131781AA	06/27/2013 21:04	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131781AA	06/27/2013 21:04	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13178WAF026	07/03/2013 00:25	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13178WAF026	06/27/2013 23:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 09:20	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131781848002	06/28/2013 07:55	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131781848002	06/28/2013 07:55	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131781848002	06/28/2013 07:55	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131781848002	06/28/2013 07:55	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131781848002	06/28/2013 07:55	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131781848002	06/28/2013 07:55	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131781848002	06/28/2013 07:55	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131781848002	06/28/2013 07:55	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131781848002	06/28/2013 07:55	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131781848002	06/28/2013 07:55	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131781848002	06/28/2013 07:55	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131785713002	06/30/2013 17:33	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131781848002	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131785713002	06/27/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-004(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108854
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:10 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26041 SDG#: PEI54-06

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-004(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108854
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:10 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/27/2013 09:30

PO Box 4416

Reported: 07/08/2013 12:33

Houston TX 77210-4416

26041 SDG#: PEI54-06

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	0.3 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.016 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.011 J	0.010	0.051	1
08357	Naphthalene	91-20-3	0.038 J	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
Naphthalene was detected in the method blank associated with the samples as noted on the QC Summary. Since the result is < the LOQ, the data is reported.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	16.1	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	0.0391	0.00033	0.0050	1

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

Sample Description: WS-004(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108854
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:10 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/27/2013 09:30

PO Box 4416

Reported: 07/08/2013 12:33

Houston TX 77210-4416

26041 SDG#: PEI54-06

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	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	3.86	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	1.57	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

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	I131781AA	06/27/2013 21:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131781AA	06/27/2013 21:25	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13178WAF026	07/03/2013 00:55	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13178WAF026	06/27/2013 23:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 09:20	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131781848002	06/28/2013 07:59	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131781848002	06/28/2013 07:59	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131781848002	06/28/2013 07:59	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131781848002	06/28/2013 07:59	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131781848002	06/28/2013 07:59	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131781848002	06/28/2013 07:59	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131781848002	06/28/2013 07:59	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131781848002	06/28/2013 07:59	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131781848002	06/28/2013 07:59	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131781848002	06/28/2013 07:59	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131781848002	06/28/2013 07:59	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131785713002	06/30/2013 17:35	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131781848002	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131785713002	06/27/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108855
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:20 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26042 SDG#: PEI54-07

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	4.0 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	1.0 J	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	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)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108855
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:20 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26042 SDG#: PEI54-07

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	12	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	0.034 J	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	0.049 J	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	0.11	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	0.040 J	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	0.034 J	0.011	0.053	1
08357	Chrysene	218-01-9	0.074	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	0.066	0.011	0.053	1
08357	Fluorene	86-73-7	0.015 J	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.028 J	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	0.045 J	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.040 J	0.011	0.053	1
08357	Naphthalene	91-20-3	0.042 J	0.032	0.053	1
08357	Phenanthrene	85-01-8	0.041 J	0.032	0.053	1
08357	Pyrene	129-00-0	0.078	0.011	0.053	1
Naphthalene was detected in the method blank associated with the samples as noted on the QC Summary. Since the result is < the LOQ, the data is reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	27.6	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0151 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.144	0.00033	0.0050	1

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

Sample Description: WS-004(0.5-1.0)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108855
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/27/2013 09:30

PO Box 4416

Reported: 07/08/2013 12:33

Houston TX 77210-4416

26042 SDG#: PEI54-07

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	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.23	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0202	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0883	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.94	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0152	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	0.0239	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

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	I131781AA	06/27/2013 21:46	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131781AA	06/27/2013 21:46	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13178WAF026	07/03/2013 04:24	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13178WAF026	06/27/2013 23:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 09:20	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131781848002	06/28/2013 08:02	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131781848002	06/28/2013 08:02	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131781848002	06/28/2013 08:02	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131781848002	06/28/2013 08:02	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131781848002	06/28/2013 08:02	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131781848002	06/28/2013 08:02	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131781848002	06/28/2013 08:02	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131781848002	06/28/2013 08:02	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131781848002	06/28/2013 08:02	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131781848002	06/28/2013 08:02	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131781848002	06/28/2013 08:02	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131785713002	06/30/2013 17:37	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131781848002	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131785713002	06/27/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108856
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:50 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26071 SDG#: PEI54-08BKG

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-007(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108856
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:50 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26071 SDG#: PEI54-08BKG

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	1.2	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.019 J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	0.016 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.034 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.028 J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.097	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.023 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.031 J	0.010	0.051	1
08357	Chrysene	218-01-9	0.099	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.21	0.010	0.051	1
08357	Fluorene	86-73-7	0.020 J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.023 J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.016 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.015 J	0.010	0.051	1
08357	Naphthalene	91-20-3	0.034 J	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.10	0.031	0.051	1
08357	Pyrene	129-00-0	0.17	0.010	0.051	1
Naphthalene was detected in the method blank associated with the samples as noted on the QC Summary. Since the result is < the LOQ, the data is reported.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	17.9	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	0.0511	0.00033	0.0050	1

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

Sample Description: WS-007(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108856
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/27/2013 09:30

PO Box 4416

Reported: 07/08/2013 12:33

Houston TX 77210-4416

26071 SDG#: PEI54-08BKG

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	3.95	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0035 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0095 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	1.96	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0029 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	0.0066	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

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	C131782AA	06/27/2013 21:26	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131782AA	06/27/2013 21:26	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13178WAF026	07/02/2013 20:57	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13178WAF026	06/27/2013 23:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 09:20	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131781848002	06/28/2013 07:06	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131781848002	06/28/2013 07:06	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131781848002	06/28/2013 07:06	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131781848002	06/28/2013 07:06	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131781848002	06/28/2013 07:06	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131781848002	06/28/2013 07:06	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131781848002	06/28/2013 07:06	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131781848002	06/28/2013 07:06	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131781848002	06/28/2013 07:06	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131781848002	06/28/2013 07:06	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131781848002	06/28/2013 07:06	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131785713002	06/30/2013 17:39	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131781848002	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131785713002	06/27/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)062613MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108857
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:50 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26071 SDG#: PEI54-08MS

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	45	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.2	0.1	0.5	1
02898	Benzene	71-43-2	5.3	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.2	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.9	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.4	0.1	0.5	1
02898	Bromoform	75-25-2	5.8	0.1	0.5	1
02898	Bromomethane	74-83-9	5.2	0.1	0.5	1
02898	2-Butanone	78-93-3	38	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	4.8	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	4.9	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.1	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.2	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.7	0.1	0.5	1
02898	Chloroethane	75-00-3	5.1	0.1	0.5	1
02898	Chloroform	67-66-3	5.6	0.1	0.5	1
02898	Chloromethane	74-87-3	4.6	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.1	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.2	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.8	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.8	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.4	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.4	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.2	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.2	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.2	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	5.0	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.2	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.4	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.6	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.5	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.7	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.4	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.3	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.0	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.6	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.7	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.8	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.9	0.1	0.5	1
02898	Ethyl ether	60-29-7	5.2	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.3	0.1	0.5	1
02898	Freon 113	76-13-1	5.7	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.5	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.4	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.0	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.6	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	22	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.5	0.2	0.5	1

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

Sample Description: WS-007(Surface)062613MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108857
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:50 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26071 SDG#: PEI54-08MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	4.9	0.1	0.5	1
02898	Styrene	100-42-5	5.5	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.8	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.7	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.8	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	26	2.0	5.0	1
02898	Toluene	108-88-3	7.4	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.0	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.1	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.8	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.5	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.8	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.8	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.0	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.1	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.1	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.0	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	16	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.0	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.051	1
08357	Anthracene	120-12-7	1.0	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.95	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.93	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	1.2	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.72	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.97	0.010	0.051	1
08357	Chrysene	218-01-9	1.1	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.70	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.2	0.010	0.051	1
08357	Fluorene	86-73-7	1.0	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.0	0.010	0.051	1
08357	Naphthalene	91-20-3	1.0	0.031	0.051	1
08357	Phenanthrene	85-01-8	1.1	0.031	0.051	1
08357	Pyrene	129-00-0	1.2	0.010	0.051	1
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	36.0	0.033	0.20	1
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.154	0.0068	0.0200	1
07046	Barium	7440-39-3	2.08	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0496	0.00076	0.0050	1
01750	Calcium	7440-70-2	7.89	0.0334	0.200	1

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

Sample Description: WS-007(Surface)062613MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108857
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/27/2013 09:30

PO Box 4416

Reported: 07/08/2013 12:33

Houston TX 77210-4416

26071 SDG#: PEI54-08MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals			mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.208	0.0016	0.0150	1
07055	Lead	7439-92-1	0.155	0.0047	0.0150	1
01757	Magnesium	7439-95-4	3.95	0.0167	0.100	1
07061	Nickel	7440-02-0	0.518	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.151	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0544	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.528	0.0020	0.0050	1
SW-846 6010B			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0011	0.000060	0.00020	1
SW-846 7470A			mg/l	mg/l	mg/l	

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	C131782AA	06/27/2013 21:48	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131782AA	06/27/2013 21:48	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13178WAF026	07/02/2013 21:26	Holly Berry	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13178WAF026	06/27/2013 23:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 09:20	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131781848002	06/28/2013 07:17	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131781848002	06/28/2013 07:17	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131781848002	06/28/2013 07:17	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131781848002	06/28/2013 07:17	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131781848002	06/28/2013 07:17	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131781848002	06/28/2013 07:17	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131781848002	06/28/2013 07:17	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131781848002	06/28/2013 07:17	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131781848002	06/28/2013 07:17	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131781848002	06/28/2013 07:17	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131781848002	06/28/2013 07:17	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131785713002	06/30/2013 17:47	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131781848002	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131785713002	06/27/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)062613MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108858
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:50 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26071 SDG#: PEI54-08MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	41	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.4	0.1	0.5	1
02898	Benzene	71-43-2	5.3	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.3	0.1	0.5	1
02898	Bromochloromethane	74-97-5	6.0	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.4	0.1	0.5	1
02898	Bromoform	75-25-2	5.8	0.1	0.5	1
02898	Bromomethane	74-83-9	5.3	0.1	0.5	1
02898	2-Butanone	78-93-3	37	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.1	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.2	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.4	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.2	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.7	0.1	0.5	1
02898	Chloroethane	75-00-3	5.1	0.1	0.5	1
02898	Chloroform	67-66-3	5.6	0.1	0.5	1
02898	Chloromethane	74-87-3	4.7	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.3	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.4	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.6	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.8	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.4	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.3	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.3	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.4	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.3	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.9	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.2	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.5	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.6	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.5	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.7	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.4	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.3	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.1	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.7	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.7	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.8	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	5.0	0.1	0.5	1
02898	Ethyl ether	60-29-7	5.3	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.4	0.1	0.5	1
02898	Freon 113	76-13-1	5.7	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.2	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.5	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.2	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.7	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	23	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.4	0.2	0.5	1

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

Sample Description: WS-007(Surface)062613MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108858
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:50 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26071 SDG#: PEI54-08MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.1	0.1	0.5	1
02898	Styrene	100-42-5	5.6	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.8	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.7	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.9	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	25	2.0	5.0	1
02898	Toluene	108-88-3	7.5	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.4	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.6	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.9	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.4	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.8	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.7	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.1	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.2	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.3	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.1	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	17	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.1	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.051	1
08357	Anthracene	120-12-7	1.1	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.99	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.94	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	1.0	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.81	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.93	0.010	0.051	1
08357	Chrysene	218-01-9	1.0	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.81	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.0	0.010	0.051	1
08357	Fluorene	86-73-7	1.1	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.010	0.051	1
08357	Naphthalene	91-20-3	1.1	0.030	0.051	1
08357	Phenanthrene	85-01-8	1.1	0.030	0.051	1
08357	Pyrene	129-00-0	1.1	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	35.4	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.158	0.0068	0.0200	1
07046	Barium	7440-39-3	2.05	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0498	0.00076	0.0050	1
01750	Calcium	7440-70-2	7.93	0.0334	0.200	1

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

Sample Description: WS-007(Surface)062613MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108858
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/27/2013 09:30

PO Box 4416

Reported: 07/08/2013 12:33

Houston TX 77210-4416

26071 SDG#: PEI54-08MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.204	0.0016	0.0150	1
07055	Lead	7439-92-1	0.153	0.0047	0.0150	1
01757	Magnesium	7439-95-4	3.79	0.0167	0.100	1
07061	Nickel	7440-02-0	0.517	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.153	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0545	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.525	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0011	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131782AA	06/27/2013 22:10	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131782AA	06/27/2013 22:10	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13178WAF026	07/02/2013 21:57	Holly Berry	1
10470	BNW Water Extraction (SIM)	SW-846 3510C	1	13178WAF026	06/27/2013 23:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 09:20	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131781848002	06/28/2013 07:21	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131781848002	06/28/2013 07:21	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131781848002	06/28/2013 07:21	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131781848002	06/28/2013 07:21	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131781848002	06/28/2013 07:21	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131781848002	06/28/2013 07:21	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131781848002	06/28/2013 07:21	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131781848002	06/28/2013 07:21	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131781848002	06/28/2013 07:21	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131781848002	06/28/2013 07:21	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131781848002	06/28/2013 07:21	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131785713002	06/30/2013 17:49	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131781848002	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131785713002	06/27/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)062613DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108859
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 11:50 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26071 SDG#: PEI54-08DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	17.8	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	0.0500	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	3.95	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0041 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0091 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	1.93	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0036 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	0.0060	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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131796256001	06/28/2013 09:20	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131781848002	06/28/2013 07:13	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131781848002	06/28/2013 07:13	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131781848002	06/28/2013 07:13	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131781848002	06/28/2013 07:13	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131781848002	06/28/2013 07:13	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131781848002	06/28/2013 07:13	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131781848002	06/28/2013 07:13	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131781848002	06/28/2013 07:13	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131781848002	06/28/2013 07:13	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131781848002	06/28/2013 07:13	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131781848002	06/28/2013 07:13	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131785713002	06/30/2013 17:45	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131781848002	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131785713002	06/27/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108860
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 12:00 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26072 SDG#: PEI54-09

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	6.6	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	1.2 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-007(0.5-1.0)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108860
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 12:00 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26072 SDG#: PEI54-09

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	16	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	0.54	0.10	0.52	10
08357	Acenaphthylene	208-96-8	1.4	0.10	0.52	10
08357	Anthracene	120-12-7	2.8	0.10	0.52	10
08357	Benzo(a)anthracene	56-55-3	10	0.10	0.52	10
08357	Benzo(a)pyrene	50-32-8	9.0	0.10	0.52	10
08357	Benzo(b)fluoranthene	205-99-2	31	0.10	0.52	10
08357	Benzo(g,h,i)perylene	191-24-2	6.1	0.10	0.52	10
08357	Benzo(k)fluoranthene	207-08-9	9.6	0.10	0.52	10
08357	Chrysene	218-01-9	33	0.10	0.52	10
08357	Dibenz(a,h)anthracene	53-70-3	1.6	0.10	0.52	10
08357	Fluoranthene	206-44-0	47	0.10	0.52	10
08357	Fluorene	86-73-7	0.47 J	0.10	0.52	10
08357	Indeno(1,2,3-cd)pyrene	193-39-5	6.7	0.10	0.52	10
08357	1-Methylnaphthalene	90-12-0	0.13 J	0.10	0.52	10
08357	2-Methylnaphthalene	91-57-6	0.13 J	0.10	0.52	10
08357	Naphthalene	91-20-3	N.D.	0.31	0.52	10
08357	Phenanthrene	85-01-8	8.7	0.31	0.52	10
08357	Pyrene	129-00-0	38	0.10	0.52	10
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	159	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0592	0.0068	0.0200	1
07046	Barium	7440-39-3	1.49	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0019 J	0.00076	0.0050	1
01750	Calcium	7440-70-2	28.3	0.0334	0.200	1

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

Sample Description: WS-007(0.5-1.0)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108860
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 12:00 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/27/2013 09:30

PO Box 4416

Reported: 07/08/2013 12:33

Houston TX 77210-4416

26072 SDG#: PEI54-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.126	0.0016	0.0150	1
07055	Lead	7439-92-1	0.368	0.0047	0.0150	1
01757	Magnesium	7439-95-4	21.4	0.0167	0.100	1
07061	Nickel	7440-02-0	0.116	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.0131 J	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.199	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00012 J	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131782AA	06/27/2013 22:33	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131782AA	06/27/2013 22:33	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13178WAF026	07/03/2013 09:23	Joseph M Gambler	10
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13178WAF026	06/27/2013 23:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 09:20	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131781848002	06/28/2013 08:06	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131781848002	06/28/2013 08:06	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131781848002	06/28/2013 08:06	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131781848002	06/28/2013 08:06	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131781848002	06/28/2013 08:06	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131781848002	06/28/2013 08:06	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131781848002	06/28/2013 08:06	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131781848002	06/28/2013 08:06	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131781848002	06/28/2013 08:06	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131781848002	06/28/2013 08:06	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131781848002	06/28/2013 08:06	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131785713002	06/30/2013 17:51	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131781848002	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131785713002	06/27/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-006(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108861
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 12:30 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26061 SDG#: PEI54-10

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

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

Sample Description: WS-006(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108861
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 12:30 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26061 SDG#: PEI54-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	0.064	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1

The 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 outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	23.9	0.033	0.20

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

Sample Description: WS-006(Surface)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108861
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 12:30 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/27/2013 09:30

PO Box 4416

Reported: 07/08/2013 12:33

Houston TX 77210-4416

26061 SDG#: PEI54-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0333	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.48	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	2.48	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

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	C131782AA	06/27/2013 22:55	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131782AA	06/27/2013 22:55	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13178WAF026	07/03/2013 01:25	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13178WAF026	06/27/2013 23:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 09:20	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131781848002	06/28/2013 08:10	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131781848002	06/28/2013 08:10	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131781848002	06/28/2013 08:10	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131781848002	06/28/2013 08:10	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131781848002	06/28/2013 08:10	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131781848002	06/28/2013 08:10	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131781848002	06/28/2013 08:10	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131781848002	06/28/2013 08:10	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131781848002	06/28/2013 08:10	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131781848002	06/28/2013 08:10	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131781848002	06/28/2013 08:10	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131785713002	06/30/2013 17:53	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131781848002	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131785713002	06/27/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108862
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 12:40 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26062 SDG#: PEI54-11

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

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

Sample Description: WS-006(0.5-1.0)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108862
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 12:40 by JW

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26062 SDG#: PEI54-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	0.074	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
Naphthalene was detected in the method blank associated with the samples as noted on the QC Summary. Since the result is < the LOQ, the data is reported.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	24.5	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	0.0436	0.00033	0.0050	1

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

Sample Description: WS-006(0.5-1.0)062613 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108862
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013 12:40 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/27/2013 09:30

PO Box 4416

Reported: 07/08/2013 12:33

Houston TX 77210-4416

26062 SDG#: PEI54-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.57	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0018 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0047 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.56	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	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

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	C131782AA	06/27/2013 23:17	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131782AA	06/27/2013 23:17	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13178WAF026	07/03/2013 01:55	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13178WAF026	06/27/2013 23:30	Karen L Beyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 09:20	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131781848002	06/28/2013 08:14	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	131781848002	06/28/2013 08:14	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	131781848002	06/28/2013 08:14	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	131781848002	06/28/2013 08:14	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	131781848002	06/28/2013 08:14	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	131781848002	06/28/2013 08:14	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	131781848002	06/28/2013 08:14	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	131781848002	06/28/2013 08:14	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	131781848002	06/28/2013 08:14	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	131781848002	06/28/2013 08:14	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	131781848002	06/28/2013 08:14	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	131785713002	06/30/2013 17:56	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131781848002	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131785713002	06/27/2013 16:20	Nelli S Markaryan	1

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

Sample Description: WS-TB-83-062613 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108863
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26T83 SDG#: PEI54-12TB*

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-83-062613 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7108863
LL Group # 1400144
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/26/2013

ExxonMobil

Submitted: 06/27/2013 09:30

Mobil Pipeline Company

Reported: 07/08/2013 12:33

PO Box 4416

Houston TX 77210-4416

26T83 SDG#: PEI54-12TB*

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131781AA	06/27/2013 19:20	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131781AA	06/27/2013 19:20	Jason M Long	1

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

Quality Control SummaryClient Name: ExxonMobil
Reported: 07/08/13 at 12:33 PM

Group Number: 1400144

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: C131782AA	Sample number(s): 7108856-7108858, 7108860-7108862								
Acetone	N.D.	3.0	5.0	ug/l	108		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	79		61-130		
Benzene	N.D.	0.1	0.5	ug/l	101		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	118		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	107		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	116		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	100		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	97		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	95		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	97		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	99		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	94		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	107		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	86		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	101		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	103		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	116		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	116		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	108		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	106		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		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	89		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	97		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	109		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	102		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	107		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	119		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	105		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	100		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	104		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	104		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	94		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	105		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	102		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	100		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: 1400144

Reported: 07/08/13 at 12:33 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	98		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	95		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	93		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	106		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	96		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	113		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	96		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	110		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	103		65-131		
Toluene	N.D.	0.1	0.5	ug/l	103		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	85		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	88		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	109		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	102		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	100		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	91		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	105		80-120		

Batch number: I131781AA

Sample number(s): 7108849-7108855,7108863

Acetone	N.D.	3.0	5.0	ug/l	84		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	77		61-130		
Benzene	N.D.	0.1	0.5	ug/l	93		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	88		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	94		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	88		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	84		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	101		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	92		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	95		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	92		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	90		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	96		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	101		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	95		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	101		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	93		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	93		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	89		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	87		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	94		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	90		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	96		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	93		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	94		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	87		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	89		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	93		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	89		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	92		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: 1400144

Reported: 07/08/13 at 12:33 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	93		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	119		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	96		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	92		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	85		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	96		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	90		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	88		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	91		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	87		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	84		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	96		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	93		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	86		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	91		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	89		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
Styrene	N.D.	0.1	0.5	ug/l	95		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	92		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	93		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	94		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	94		65-131		
Toluene	N.D.	0.1	0.5	ug/l	95		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	87		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	87		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	90		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	94		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	96		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	97		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	95		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	93		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	93		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	104		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	95		80-120		

Batch number: 13178WAF026

Sample number(s): 7108849-7108858, 7108860-7108862

Acenaphthene	N.D.	0.010	0.050	ug/l	105		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	111		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	107		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	100		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	108		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	114		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	110		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	105		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	106		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	105		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	96		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	101		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	109		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	109		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	103		74-119		
Naphthalene	0.031 J	0.030	0.050	ug/l	109		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	108		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	100		71-116		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1400144

Reported: 07/08/13 at 12:33 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 131781848002	Sample number(s): 7108849-7108862								
Arsenic	N.D.	0.0068	0.0200	mg/l	101		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	100		90-112		
Calcium	0.0371 J	0.0334	0.200	mg/l	101		90-110		
Chromium	N.D.	0.0016	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	100		88-110		
Magnesium	N.D.	0.0167	0.100	mg/l	99		90-110		
Nickel	N.D.	0.0015	0.0100	mg/l	104		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	97		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	108		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	103		90-110		

Batch number: 131785713002

Sample number(s): 7108849-7108862

Mercury	N.D.	0.00006	0.00020	mg/l	105		80-120		
---------	------	---------	---------	------	-----	--	--------	--	--

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: C131782AA	Sample number(s): 7108856-7108858, 7108860-7108862 UNSPK: 7108856								
Acetone	120	109	57-163	10	30				
Allyl Chloride	84	88	67-139	4	30				
Benzene	106	107	87-126	0	30				
Bromobenzene	104	105	80-123	1	30				
Bromochloromethane	118	120	82-125	2	30				
Bromodichloromethane	109	109	82-133	0	30				
Bromoform	116	116	60-138	0	30				
Bromomethane	104	106	41-145	1	30				
2-Butanone	101	98	63-146	3	30				
n-Butylbenzene	95	101	83-131	6	30				
sec-Butylbenzene	99	105	84-128	6	30				
tert-Butylbenzene	102	108	84-135	6	30				
Carbon Tetrachloride	125	125	81-148	0	30				
Chlorobenzene	113	114	78-133	1	30				
Chloroethane	102	101	70-139	0	30				
Chloroform	113	112	86-136	0	30				
Chloromethane	93	94	55-152	1	30				
2-Chlorotoluene	101	106	81-120	5	30				
4-Chlorotoluene	104	107	82-119	4	30				
1,2-Dibromo-3-chloropropane	115	113	43-143	2	30				
Dibromochloromethane	116	116	79-125	0	30				
1,2-Dibromoethane	109	108	84-127	1	30				
Dibromomethane	108	107	83-126	1	30				
1,2-Dichlorobenzene	103	106	83-117	3	30				
1,3-Dichlorobenzene	103	107	81-118	4	30				
1,4-Dichlorobenzene	103	107	79-120	4	30				
Dichlorodifluoromethane	100	99	28-136	1	30				
1,1-Dichloroethane	105	104	88-136	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: 07/08/13 at 12:33 PM

Group Number: 1400144

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichloroethane	109	110	82-135	1	30				
1,1-Dichloroethene	111	111	83-150	0	30				
cis-1,2-Dichloroethene	110	110	82-129	1	30				
trans-1,2-Dichloroethene	115	114	88-127	1	30				
Dichlorofluoromethane	127	129	59-176	1	30				
1,2-Dichloropropane	107	107	91-126	0	30				
1,3-Dichloropropane	101	101	80-127	0	30				
2,2-Dichloropropane	113	114	80-134	1	30				
1,1-Dichloropropene	114	114	86-139	0	30				
cis-1,3-Dichloropropene	96	97	74-132	1	30				
trans-1,3-Dichloropropene	99	100	71-128	1	30				
Ethyl ether	104	105	67-127	1	30				
Ethylbenzene	107	109	80-140	2	30				
Freon 113	114	115	87-158	1	30				
Hexachlorobutadiene	91	105	65-128	14	30				
Isopropylbenzene	108	111	81-133	3	30				
p-Isopropyltoluene	99	104	84-124	5	30				
Methyl Tertiary Butyl Ether	93	94	82-132	2	30				
4-Methyl-2-Pentanone	89	91	69-149	2	30				
Methylene Chloride	110	109	84-122	1	30				
n-Propylbenzene	98	102	79-131	3	30				
Styrene	110	112	63-151	2	30				
1,1,1,2-Tetrachloroethane	116	115	87-126	1	30				
1,1,2,2-Tetrachloroethane	94	94	75-131	0	30				
Tetrachloroethene	116	118	75-129	2	30				
Tetrahydrofuran	103	100	56-154	3	30				
Toluene	124	124	83-127	1	30				
1,2,3-Trichlorobenzene	79	88	73-125	10	30				
1,2,4-Trichlorobenzene	82	91	77-120	10	30				
1,1,1-Trichloroethane	116	117	85-140	1	30				
1,1,2-Trichloroethane	109	108	85-129	1	30				
Trichloroethene	115	116	85-131	0	30				
Trichlorofluoromethane	116	114	67-161	2	30				
1,2,3-Trichloropropane	101	102	76-120	1	30				
1,2,4-Trimethylbenzene	101	104	87-126	3	30				
1,3,5-Trimethylbenzene	102	105	89-129	3	30				
Vinyl Chloride	100	103	65-151	2	30				
Xylene (Total)	110	111	81-137	1	30				

Batch number: I131781AA

Sample number(s): 7108849-7108855,7108863 UNSPK: P107523

Acetone	96	100	57-163	3	30
Allyl Chloride	75	78	67-139	4	30
Benzene	95	95	87-126	1	30
Bromobenzene	84	83	80-123	1	30
Bromochloromethane	93	94	82-125	2	30
Bromodichloromethane	85	85	82-133	0	30
Bromoform	71	72	60-138	2	30
Bromomethane	103	101	41-145	2	30
2-Butanone	102	107	63-146	4	30
n-Butylbenzene	98	93	83-131	5	30
sec-Butylbenzene	97	91	84-128	6	30
tert-Butylbenzene	92	89	84-135	4	30

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/08/13 at 12:33 PM

Group Number: 1400144

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Carbon Tetrachloride	92	89	81-148	4	30				
Chlorobenzene	96	94	78-133	2	30				
Chloroethane	106	103	70-139	3	30				
Chloroform	95	96	86-136	1	30				
Chloromethane	106	105	55-152	1	30				
2-Chlorotoluene	92	89	81-120	3	30				
4-Chlorotoluene	92	90	82-119	3	30				
1,2-Dibromo-3-chloropropane	94	94	43-143	0	30				
Dibromochloromethane	78*	80	79-125	2	30				
1,2-Dibromoethane	88	90	84-127	2	30				
Dibromomethane	87	88	83-126	1	30				
1,2-Dichlorobenzene	95	92	83-117	3	30				
1,3-Dichlorobenzene	92	89	81-118	3	30				
1,4-Dichlorobenzene	92	90	79-120	2	30				
Dichlorodifluoromethane	90	79	28-136	13	30				
1,1-Dichloroethane	90	90	88-136	1	30				
1,2-Dichloroethane	90	95	82-135	4	30				
1,1-Dichloroethene	93	90	83-150	4	30				
cis-1,2-Dichloroethene	92	93	82-129	0	30				
trans-1,2-Dichloroethene	97	95	88-127	2	30				
Dichlorofluoromethane	122	121	59-176	0	30				
1,2-Dichloropropane	95	95	91-126	1	30				
1,3-Dichloropropane	87	88	80-127	1	30				
2,2-Dichloropropane	84	86	80-134	2	30				
1,1-Dichloropropene	101	98	86-139	3	30				
cis-1,3-Dichloropropene	85	86	74-132	2	30				
trans-1,3-Dichloropropene	79	81	71-128	2	30				
Ethyl ether	82	88	67-127	6	30				
Ethylbenzene	95	92	80-140	3	30				
Freon 113	93	81*	87-158	14	30				
Hexachlorobutadiene	82	79	65-128	4	30				
Isopropylbenzene	98	94	81-133	4	30				
p-Isopropyltoluene	95	91	84-124	5	30				
Methyl Tertiary Butyl Ether	80*	84	82-132	4	30				
4-Methyl-2-Pentanone	85	87	69-149	2	30				
Methylene Chloride	88	89	84-122	1	30				
n-Propylbenzene	95	91	79-131	5	30				
Styrene	94	92	63-151	2	30				
1,1,1,2-Tetrachloroethane	88	88	87-126	0	30				
1,1,2,2-Tetrachloroethane	85	86	75-131	1	30				
Tetrachloroethene	96	91	75-129	5	30				
Tetrahydrofuran	101	102	56-154	1	30				
Toluene	97	95	83-127	2	30				
1,2,3-Trichlorobenzene	82	81	73-125	1	30				
1,2,4-Trichlorobenzene	84	83	77-120	1	30				
1,1,1-Trichloroethane	92	90	85-140	2	30				
1,1,2-Trichloroethane	90	91	85-129	1	30				
Trichloroethene	99	97	85-131	2	30				
Trichlorofluoromethane	96	98	67-161	2	30				
1,2,3-Trichloropropane	88	90	76-120	2	30				
1,2,4-Trimethylbenzene	94	90	87-126	4	30				
1,3,5-Trimethylbenzene	94	90	89-129	4	30				

*- Outside of specification

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

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

Quality Control SummaryClient Name: ExxonMobil
Reported: 07/08/13 at 12:33 PM

Group Number: 1400144

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Vinyl Chloride	110	108	65-151	2	30			
Xylene (Total)	96	93	81-137	4	30			
Batch number: 13178WAF026 Sample number(s): 7108849-7108858,7108860-7108862 UNSPK: 7108856								
Acenaphthene	96	103	59-127	6	30			
Acenaphthylene	103	109	33-146	5	30			
Anthracene	101	104	69-119	2	30			
Benzo(a)anthracene	89	94	67-124	4	30			
Benzo(a)pyrene	88	90	64-123	2	30			
Benzo(b)fluoranthene	106	91	61-133	15	30			
Benzo(g,h,i)perylene	68	77	36-138	12	30			
Benzo(k)fluoranthene	91	89	59-128	3	30			
Chrysene	94	90	62-118	5	30			
Dibenz(a,h)anthracene	68	80	32-141	15	30			
Fluoranthene	96	78	65-123	17	30			
Fluorene	95	102	69-124	5	30			
Indeno(1,2,3-cd)pyrene	72	80	29-143	9	30			
1-Methylnaphthalene	101	108	67-117	6	30			
2-Methylnaphthalene	96	103	71-126	6	30			
Naphthalene	99	105	58-131	5	30			
Phenanthrene	98	98	67-117	1	30			
Pyrene	104	88	59-125	16	30			
Batch number: 131781848002 Sample number(s): 7108849-7108862 UNSPK: 7108856 BKG: 7108856								
Arsenic	103	105	81-123	2	20	N.D.	N.D.	0 (1) 20
Barium	101	100	78-118	1	20	0.0511	0.0500	2 20
Cadmium	99	100	83-116	0	20	N.D.	N.D.	0 (1) 20
Calcium	99	99	81-118	0	20	3.95	3.95	0 20
Chromium	102	100	81-120	2	20	0.0035 J	0.0041 J	15 (1) 20
Lead	97	96	75-125	1	20	0.0095 J	0.0091 J	4 (1) 20
Magnesium	100	92	75-125	4	20	1.96	1.93	1 20
Nickel	103	103	86-115	0	20	0.0029 J	0.0036 J	21* (1) 20
Selenium	101	102	75-125	1	20	N.D.	N.D.	0 (1) 20
Silver	109	109	75-125	0	20	N.D.	N.D.	0 (1) 20
Vanadium	104	104	90-111	1	20	0.0066	0.0060	9 (1) 20
Batch number: 131785713002 Sample number(s): 7108849-7108862 UNSPK: 7108856 BKG: 7108856								
Mercury	109	110	80-120	1	20	N.D.	N.D.	0 (1) 20

Surrogate Quality Control

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

Analysis Name: BTEX 25-ml purge
Batch number: C131782AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7108856	113	105	96	92

*- 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: 1400144

Reported: 07/08/13 at 12:33 PM

Surrogate Quality Control

7108857	107	103	101	99
7108858	107	103	101	99
7108860	109	103	97	94
7108861	110	103	96	92
7108862	111	105	96	92
Blank	112	110	96	93
LCS	109	106	100	100
MS	107	103	101	99
MSD	107	103	101	99

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

Analysis Name: BTEX 25-ml purge

Batch number: I131781AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7108849	97	105	98	95
7108850	96	101	98	93
7108851	97	103	98	95
7108852	97	101	98	94
7108853	96	99	98	94
7108854	96	102	98	94
7108855	97	104	97	95
7108863	95	98	98	94
Blank	97	101	98	95
LCS	97	99	99	101
MS	97	101	98	101
MSD	98	102	99	101

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

Analysis Name: PAHs in waters by SIM

Batch number: 13178WAF026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7108849	83	58*	102
7108850	84	82	102
7108851	83	77	102
7108852	79	68	98
7108853	81	79	101
7108854	83	89	101
7108855	66	71	93
7108856	81	93	99
7108857	80	85	99
7108858	88	95	106
7108860	29*	25*	45*
7108861	60*	36*	82
7108862	81	70	99
Blank	85	104	102
LCS	87	107	107
MS	80	85	99
MSD	88	95	106

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.

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/08/13 at 12:33 PM

Group Number: 1400144

Surrogate Quality Control

*- 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 # 1400144 Sample # 7108849-63
Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information				4 Matrix		5 Analyses Requested										6 Remarks	
Facility #/SID <u>MAYFLOWER PIPELINE INCIDENT</u>				☐ Sediment ☐ Potable ☐ NPDES ☐ Soil ☐ Ground ☒ Surface ☐ Water ☐ Oil ☐ Air	Total # of Containers	Preservation Code										SCR#: _____ Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other	
Site Address <u>MAYFLOWER, AR.</u>																	
ExxonMobil PM <u>SCOTT BUSHROE</u>		Cost Center/AFE														6 DATA ANALYSIS QUESTIONS: ARCADIS / LYNDI MOTT	
Consultant/Office <u>ARCADIS - US</u>																	
Consultant PM <u>STEVE BARRICK</u>		Consultant Phone # <u>(919) 302-6799</u>															
Sampler <u>J. WALDRON / B. NICHALSON</u>																	
2 Sample Identification			3 Collected														
	Date	Time	Grab	Composite	Soil	Water	Oil										
WS-003(SURFACE) 062613	6/26/13	0900	X			X		6	X	X	X						
WS-002(SURFACE) 062613	6/26/13	0950	X			X		6	X	X	X						
WS-005(SURFACE) 062613	6/26/13	1020	X			X		6	X	X	X						
WS-001(SURFACE) 062613	6/26/13	1040	X			X		6	X	X	X						
WS-001(0.5-1.0) 062613	6/26/13	1050	X			X		6	X	X	X						
WS-004(SURFACE) 062613	6/26/13	1110	X			X		6	X	X	X						
WS-004(0.5-1.0) 062613	6/26/13	1120	X			X		6	X	X	X						
WS-007(SURFACE) 062613	6/26/13	1150	X			X		6	X	X	X						
WS-007(SURFACE) 062613-MS/MSD	6/26/13	1150	X			X		12	X	X	X					MS/MSD TAKEN	
WS-007(0.5-1.0) 062613	6/26/13	1200	X			X		6	X	X	X						
WS-006(SURFACE) 062613	6/26/13	1230	X			X		6	X	X	X						
WS-006(SURFACE) 062613	6/26/13	1240	X			X		6	X	X	X						
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by		Date		Time		Received by		Date		Time		9	
Standard 5 day 4 day						6/26/13		1600									
72 hour 48 hour 24 hour				Relinquished by		Date		Time		Received by		Date		Time			
				Relinquished by		Date		Time		Received by		Date		Time			
8 Data Package (circle if required)				EDD (circle if required)		Relinquished by Commercial Carrier		Date		Time		Received by		Date		Time	
Type I - Full				Locus EIM (default)		UPS FedEx ☒ Other								6/27/13		930	
Type VI (Raw Data)				Other													
NJ Reduced																	
Other																	
Temperature Upon Receipt <u>0.5-1.2°C</u>										Custody Seals Intact? <u>Yes</u> No							



**Lancaster
Laboratories**

For Eurofins Lancaster Laboratories use only
Acct. # 14739 Group # 1400144 Sample # 7108849-63
Instructions on reverse side correspond with circled numbers.

2 of 2

[illegible]

Rachel L. Kreamer

A#14739 Gr. 1400144 Samples 7108849-63

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Thursday, June 27, 2013 1:47 PM
To: Rachel L. Kreamer
Cc: Chandler, Jennifer
Subject: RE: WS-006(0.5-1.0)062613 question

Rachel,

Yes, the sample collected at 1240 should be WS-006(0.5-1.0).

Lyndi Mott

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

From: Rachel L. Kreamer [mailto:RKreamer@lancasterlabs.com]
Sent: Thursday, June 27, 2013 12:43 PM
To: Mott, Lyndi
Subject: WS-006(0.5-1.0)062613 question

Lyndi,

I attached the chain and doc log for surface waters that we received today.

The chain has two WS-006(surface)062613 samples on it. The labels for the sample collected at 1240 say WS-006(0.5-1.0). Can you confirm that this is correct?

Thanks
Rachel

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

From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Thursday, June 27, 2013 1:36 PM
To: Rachel L. Kreamer
Subject:

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

Scan Date: 06.27.2013 13:35:33 (-0400)
Queries to: 39Scanner@lancasterlabs.com

NOTICE: This e-mail and any files transmitted with it are the property of ARCADIS U.S., Inc. and its affiliates. All rights, including without limitation copyright, are reserved. The proprietary information contained in this e-mail message, and any files transmitted with it, is intended for the use of the recipient(s) named above. If the reader of this e-mail is not the intended recipient, you are hereby notified that you have received this e-mail in error and that any review, distribution or copying of this e-mail or any files transmitted with it is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately and delete the original message and any files transmitted. The unauthorized use of this e-mail or any files transmitted with it is prohibited and disclaimed by ARCADIS U.S., Inc. and its affiliates. Nothing herein is intended to constitute the offering or performance of services where otherwise restricted by law.

Environmental Sample Administration
Receipt Documentation Log

1400144

Client/Project: Exxon mobilDate of Receipt: 6.27.13Time of Receipt: 930Source Code: 50-1Shipping Container Sealed: YES NOCustody Seal Present *: YES NO* Custody seal was intact unless otherwise noted in the
discrepancy sectionPackage: 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	DH21	0.5	TB	WI	Y	B	
2	↓	1.2	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

WS-006 (Surface) 062613 1240 = WS006
(AS-1.0) 1240

Unpacker Signature/Emp#:

Brenely Barclay 2d99

Date/Time:

6.27.13 956

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
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.