ANALYTICAL RESULTS

Prepared by:

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2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

July 23, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 07/13/2013
Group Number: 1403854
SDG: PEJ04
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LL) #
WS-003(Surface)071213 Grab Surface Water	7126365
WS-002(Surface)071213 Grab Surface Water	7126366
WS-005(Surface)071213 Grab Surface Water	7126367
WS-001(Surface)071213 Grab Surface Water	7126368
WS-001(0.5-1.0)071213 Grab Surface Water	7126369
WS-004(Surface)071213 Grab Surface Water	7126370
WS-004(0.5-1.0)071213 Grab Surface Water	7126371
WS-007(Surface)071213 Grab Surface Water	7126372
WS-007(Surface)071213 MS Grab Surface Water	7126373
WS-007(Surface)071213 MSD Grab Surface Water	7126374
WS-007(Surface)071213 DUP Grab Surface Water	7126375
WS-007(0.5-1.0)071213 Grab Surface Water	7126376
WS-006(Surface)071213 Grab Surface Water	7126377
WS-006(0.5-1.0)071213 Grab Surface Water	7126378
WS-TB-95-071213 Water	7126379

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

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1403854

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 #: H131971AA (Sample number(s): 7126366 UNSPK: P127249)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: 1,1-Dichloroethane, Benzene, 1,2-Dichloropropane

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13196WAE026 (Sample number(s): 7126365-7126374, 7126376-7126378 UNSPK: 7126372)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7126376

SW-846 6010B, Metals

Batch #: 131961848002 (Sample number(s): 7126365-7126378 UNSPK: 7126372 BKG: 7126372)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Calcium, Magnesium

Sample Description: WS-003(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126365
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 07:45 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

3--SR SDG#: PEJ04-01

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126365
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 07:45 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

3--SR SDG#: PEJ04-01

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.012	0.060	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.060	1
08357	Anthracene	120-12-7	N.D.	0.012	0.060	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.060	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.060	1
08357	Benzo(b)fluoranthene	205-99-2	0.012 J	0.012	0.060	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.060	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.060	1
08357	Chrysene	218-01-9	N.D.	0.012	0.060	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.060	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.060	1
08357	Fluorene	86-73-7	N.D.	0.012	0.060	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.060	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.060	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.060	1
08357	Naphthalene	91-20-3	0.16	0.036	0.060	1
08357	Phenanthrene	85-01-8	N.D.	0.036	0.060	1
08357	Pyrene	129-00-0	N.D.	0.012	0.060	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	29.0	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	0.0517	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.44	0.0334	0.200	1

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

Sample Description: WS-003(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126365
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 07:45 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

3--SR SDG#: PEJ04-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0017 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0074 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	3.13	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0025 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.0028 J	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

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	H131963AA	07/16/2013 01:18	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131963AA	07/16/2013 01:18	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13196WAE026	07/18/2013 06:03	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13196WAE026	07/15/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131986256010	07/17/2013 06:55	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131961848002	07/16/2013 13:43	Eric L Eby	1
07046	Barium	SW-846 6010B	1	131961848002	07/16/2013 13:43	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	131961848002	07/16/2013 13:43	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	131961848002	07/16/2013 13:43	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131961848002	07/16/2013 13:43	Eric L Eby	1
07055	Lead	SW-846 6010B	1	131961848002	07/16/2013 13:43	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131961848002	07/16/2013 13:43	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	131961848002	07/16/2013 13:43	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	131961848002	07/16/2013 13:43	Eric L Eby	1
07066	Silver	SW-846 6010B	1	131961848002	07/16/2013 13:43	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	131961848002	07/16/2013 13:43	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	131965713003	07/16/2013 06:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131961848002	07/15/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131965713003	07/15/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126366
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 08:00 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

2-SR- SDG#: PEJ04-02

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126366
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 08:00 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

2-SR- SDG#: PEJ04-02

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	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	0.11	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	0.014 J	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	27.0	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	0.0281	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.14	0.0334	0.200	1

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

Sample Description: WS-002(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126366
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 08:00 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

2-SR- SDG#: PEJ04-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.82	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	H131971AA	07/16/2013 10:21	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131971AA	07/16/2013 10:21	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13196WAE026	07/18/2013 06:30	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13196WAE026	07/15/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131986256010	07/17/2013 06:55	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131961848002	07/16/2013 13:54	Eric L Eby	1
07046	Barium	SW-846 6010B	1	131961848002	07/16/2013 13:54	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	131961848002	07/16/2013 13:54	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	131961848002	07/16/2013 13:54	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131961848002	07/16/2013 13:54	Eric L Eby	1
07055	Lead	SW-846 6010B	1	131961848002	07/16/2013 13:54	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131961848002	07/16/2013 13:54	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	131961848002	07/16/2013 13:54	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	131961848002	07/16/2013 13:54	Eric L Eby	1
07066	Silver	SW-846 6010B	1	131961848002	07/16/2013 13:54	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	131961848002	07/16/2013 13:54	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	131965713003	07/16/2013 06:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131961848002	07/15/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131965713003	07/15/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126367
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 08:35 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

5-SR- SDG#: PEJ04-03

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 purge**		ug/l	ug/l	ug/l	
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)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126367
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 08:35 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

5-SR- SDG#: PEJ04-03

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.011	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	0.10	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	0.036 J	0.011	0.053	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	27.0	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	0.0379	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.26	0.0334	0.200	1

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

Sample Description: WS-005(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126367
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 08:35 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

5-SR- SDG#: PEJ04-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.77	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	H131963AA	07/16/2013 01:38	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131963AA	07/16/2013 01:38	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13196WAE026	07/18/2013 06:57	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13196WAE026	07/15/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131986256010	07/17/2013 06:55	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131961848002	07/16/2013 13:58	Eric L Eby	1
07046	Barium	SW-846 6010B	1	131961848002	07/16/2013 13:58	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	131961848002	07/16/2013 13:58	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	131961848002	07/16/2013 13:58	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131961848002	07/16/2013 13:58	Eric L Eby	1
07055	Lead	SW-846 6010B	1	131961848002	07/16/2013 13:58	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131961848002	07/16/2013 13:58	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	131961848002	07/16/2013 13:58	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	131961848002	07/16/2013 13:58	Eric L Eby	1
07066	Silver	SW-846 6010B	1	131961848002	07/16/2013 13:58	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	131961848002	07/16/2013 13:58	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	131965713003	07/16/2013 06:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131961848002	07/15/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131965713003	07/15/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-001(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126368
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 08:50 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

1-SR- SDG#: PEJ04-04

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 purge**		ug/l	ug/l	ug/l	
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)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126368
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 08:50 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

1-SR- SDG#: PEJ04-04

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.012	0.058	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	0.058	1
08357	Anthracene	120-12-7	N.D.	0.012	0.058	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.012	0.058	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.012	0.058	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.012	0.058	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.012	0.058	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.012	0.058	1
08357	Chrysene	218-01-9	N.D.	0.012	0.058	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.012	0.058	1
08357	Fluoranthene	206-44-0	N.D.	0.012	0.058	1
08357	Fluorene	86-73-7	N.D.	0.012	0.058	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.012	0.058	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.012	0.058	1
08357	Naphthalene	91-20-3	0.11	0.035	0.058	1
08357	Phenanthrene	85-01-8	N.D.	0.035	0.058	1
08357	Pyrene	129-00-0	N.D.	0.012	0.058	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	27.3	0.033	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0346	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.26	0.0334	0.200	1

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

Sample Description: WS-001(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126368
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 08:50 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

1-SR- SDG#: PEJ04-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.83	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	H131963AA	07/16/2013 01:58	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131963AA	07/16/2013 01:58	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13196WAE026	07/18/2013 07:24	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13196WAE026	07/15/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131986256010	07/17/2013 06:55	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131961848002	07/16/2013 14:02	Eric L Eby	1
07046	Barium	SW-846 6010B	1	131961848002	07/16/2013 14:02	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	131961848002	07/16/2013 14:02	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	131961848002	07/16/2013 14:02	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131961848002	07/16/2013 14:02	Eric L Eby	1
07055	Lead	SW-846 6010B	1	131961848002	07/16/2013 14:02	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131961848002	07/16/2013 14:02	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	131961848002	07/16/2013 14:02	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	131961848002	07/16/2013 14:02	Eric L Eby	1
07066	Silver	SW-846 6010B	1	131961848002	07/16/2013 14:02	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	131961848002	07/16/2013 14:02	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	131965713003	07/16/2013 06:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131961848002	07/15/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131965713003	07/15/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126369
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:00 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

1-051 SDG#: PEJ04-05

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126369
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:00 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

1-051 SDG#: PEJ04-05

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.056	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.056	1
08357	Anthracene	120-12-7	N.D.	0.011	0.056	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.056	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.056	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.056	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.056	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.056	1
08357	Chrysene	218-01-9	N.D.	0.011	0.056	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.056	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.056	1
08357	Fluorene	86-73-7	N.D.	0.011	0.056	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.056	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.056	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.056	1
08357	Naphthalene	91-20-3	0.11	0.034	0.056	1
08357	Phenanthrene	85-01-8	N.D.	0.034	0.056	1
08357	Pyrene	129-00-0	N.D.	0.011	0.056	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	27.3	0.033	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0377	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.27	0.0334	0.200	1

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

Sample Description: WS-001(0.5-1.0)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126369
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:00 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

1-051 SDG#: PEJ04-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.83	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	H131963AA	07/16/2013 02:19	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131963AA	07/16/2013 02:19	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13196WAE026	07/18/2013 07:51	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13196WAE026	07/15/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131986256010	07/17/2013 06:55	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131961848002	07/16/2013 14:05	Eric L Eby	1
07046	Barium	SW-846 6010B	1	131961848002	07/16/2013 14:05	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	131961848002	07/16/2013 14:05	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	131961848002	07/16/2013 14:05	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131961848002	07/16/2013 14:05	Eric L Eby	1
07055	Lead	SW-846 6010B	1	131961848002	07/16/2013 14:05	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131961848002	07/16/2013 14:05	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	131961848002	07/16/2013 14:05	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	131961848002	07/16/2013 14:05	Eric L Eby	1
07066	Silver	SW-846 6010B	1	131961848002	07/16/2013 14:05	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	131961848002	07/16/2013 14:05	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	131965713003	07/16/2013 06:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131961848002	07/15/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131965713003	07/15/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-004(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126370
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:10 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

4-SR- SDG#: PEJ04-06

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126370
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:10 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

4-SR- SDG#: PEJ04-06

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	2.0	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.015 J	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	0.012 J	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.016 J	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.014 J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.012 J	0.010	0.052	1
08357	Naphthalene	91-20-3	0.10	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.016 J	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	24.4	0.033	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0078 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0600	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.92	0.0334	0.200	1

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

Sample Description: WS-004(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126370
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:10 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

4-SR- SDG#: PEJ04-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0062 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.34	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	0.0031 J	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

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	H131963AA	07/16/2013 02:39	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131963AA	07/16/2013 02:39	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13196WAE026	07/18/2013 08:18	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13196WAE026	07/15/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131986256010	07/17/2013 06:55	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131961848002	07/16/2013 14:09	Eric L Eby	1
07046	Barium	SW-846 6010B	1	131961848002	07/16/2013 14:09	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	131961848002	07/16/2013 14:09	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	131961848002	07/16/2013 14:09	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131961848002	07/16/2013 14:09	Eric L Eby	1
07055	Lead	SW-846 6010B	1	131961848002	07/16/2013 14:09	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131961848002	07/16/2013 14:09	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	131961848002	07/16/2013 14:09	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	131961848002	07/16/2013 14:09	Eric L Eby	1
07066	Silver	SW-846 6010B	1	131961848002	07/16/2013 14:09	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	131961848002	07/16/2013 14:09	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	131965713003	07/16/2013 06:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131961848002	07/15/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131965713003	07/15/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126371
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:30 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

4051- SDG#: PEJ04-07

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 purge**		ug/l	ug/l	ug/l	
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(0.5-1.0)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126371
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:30 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

4051- SDG#: PEJ04-07

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 purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	2.1		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.011	0.057	1
08357	Acenaphthylene	208-96-8	N.D.		0.011	0.057	1
08357	Anthracene	120-12-7	N.D.		0.011	0.057	1
08357	Benzo(a)anthracene	56-55-3	0.022	J	0.011	0.057	1
08357	Benzo(a)pyrene	50-32-8	0.031	J	0.011	0.057	1
08357	Benzo(b)fluoranthene	205-99-2	0.057	J	0.011	0.057	1
08357	Benzo(g,h,i)perylene	191-24-2	0.035	J	0.011	0.057	1
08357	Benzo(k)fluoranthene	207-08-9	0.017	J	0.011	0.057	1
08357	Chrysene	218-01-9	0.044	J	0.011	0.057	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	0.057	1
08357	Fluoranthene	206-44-0	0.053	J	0.011	0.057	1
08357	Fluorene	86-73-7	0.013	J	0.011	0.057	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.026	J	0.011	0.057	1
08357	1-Methylnaphthalene	90-12-0	0.042	J	0.011	0.057	1
08357	2-Methylnaphthalene	91-57-6	0.023	J	0.011	0.057	1
08357	Naphthalene	91-20-3	0.067		0.034	0.057	1
08357	Phenanthrene	85-01-8	0.042	J	0.034	0.057	1
08357	Pyrene	129-00-0	0.065		0.011	0.057	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	24.2		0.033	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.		0.0068	0.0200	1
07046	Barium	7440-39-3	0.0637		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00076	0.0050	1
01750	Calcium	7440-70-2	5.79		0.0334	0.200	1

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

Sample Description: WS-004(0.5-1.0)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126371
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:30 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

4051- SDG#: PEJ04-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0029 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0139 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.37	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0040 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	0.0051	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	H131963AA	07/16/2013 03:00	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131963AA	07/16/2013 03:00	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13196WAE026	07/18/2013 08:46	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13196WAE026	07/15/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131986256010	07/17/2013 06:55	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131961848002	07/16/2013 14:13	Eric L Eby	1
07046	Barium	SW-846 6010B	1	131961848002	07/16/2013 14:13	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	131961848002	07/16/2013 14:13	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	131961848002	07/16/2013 14:13	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131961848002	07/16/2013 14:13	Eric L Eby	1
07055	Lead	SW-846 6010B	1	131961848002	07/16/2013 14:13	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131961848002	07/16/2013 14:13	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	131961848002	07/16/2013 14:13	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	131961848002	07/16/2013 14:13	Eric L Eby	1
07066	Silver	SW-846 6010B	1	131961848002	07/16/2013 14:13	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	131961848002	07/16/2013 14:13	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	131965713003	07/16/2013 06:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131961848002	07/15/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131965713003	07/15/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126372
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:40 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-7SR- SDG#: PEJ04-08BKG

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 purge**		**ug/l**		**ug/l**	**ug/l**	
02898	Acetone	67-64-1	3.7	J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	N.D.		0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.		1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.		0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.		0.1	0.5	1
02898	Chloroform	67-66-3	N.D.		0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.		0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.		0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.		0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1

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

Sample Description: WS-007(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126372
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:40 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-7SR- SDG#: PEJ04-08BKG

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.6	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	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	0.022 J	0.010	0.052	1
08357	Acenaphthylene	208-96-8	0.018 J	0.010	0.052	1
08357	Anthracene	120-12-7	0.023 J	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.050 J	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.061	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.16	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.059	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.052	0.010	0.052	1
08357	Chrysene	218-01-9	0.12	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.015 J	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.17	0.010	0.052	1
08357	Fluorene	86-73-7	0.028 J	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.060	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.023 J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.026 J	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.071	0.031	0.052	1
08357	Pyrene	129-00-0	0.16	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	42.8	0.033	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0190 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.293	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0012 J	0.00076	0.0050	1
01750	Calcium	7440-70-2	8.43	0.0334	0.200	1

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

Sample Description: WS-007(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126372
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:40 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-7SR- SDG#: PEJ04-08BKG

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**	
07051	Chromium	7440-47-3	0.0242	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0578	0.0047	0.0150	1
01757	Magnesium	7439-95-4	5.29	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0299	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	0.0429	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00011 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	H131963AA	07/16/2013 00:16	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131963AA	07/16/2013 00:16	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13196WAE026	07/17/2013 20:07	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13196WAE026	07/15/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131986256010	07/17/2013 06:55	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131961848002	07/16/2013 13:16	Eric L Eby	1
07046	Barium	SW-846 6010B	1	131961848002	07/16/2013 13:16	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	131961848002	07/16/2013 13:16	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	131961848002	07/16/2013 13:16	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131961848002	07/16/2013 13:16	Eric L Eby	1
07055	Lead	SW-846 6010B	1	131961848002	07/16/2013 13:16	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131961848002	07/16/2013 13:16	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	131961848002	07/16/2013 13:16	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	131961848002	07/16/2013 13:16	Eric L Eby	1
07066	Silver	SW-846 6010B	1	131961848002	07/16/2013 13:16	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	131961848002	07/16/2013 13:16	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	131965713003	07/16/2013 06:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131961848002	07/15/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131965713003	07/15/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)071213 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126373
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:40 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-7SR- SDG#: PEJ04-08MS

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	35	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.4	0.1	0.5	1
02898	Benzene	71-43-2	5.2	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.2	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.2	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.0	0.1	0.5	1
02898	Bromoform	75-25-2	4.9	0.1	0.5	1
02898	Bromomethane	74-83-9	4.6	0.1	0.5	1
02898	2-Butanone	78-93-3	35	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	5.5	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.3	0.1	0.5	1
02898	Chloroethane	75-00-3	4.5	0.1	0.5	1
02898	Chloroform	67-66-3	5.3	0.1	0.5	1
02898	Chloromethane	74-87-3	4.1	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.2	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	5.1	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.1	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.3	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.9	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	5.2	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.2	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.3	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.0	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.0	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.8	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.2	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.6	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.6	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.1	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	5.2	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.5	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.9	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.9	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.3	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.1	0.1	0.5	1
02898	Freon 113	76-13-1	5.4	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.0	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.3	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.1	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	5.0	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	24	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.2	0.2	0.5	1

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

Sample Description: WS-007(Surface)071213 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126373
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:40 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-7SR- SDG#: PEJ04-08MS

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	5.2	0.1	0.5	1
02898	Styrene	100-42-5	5.4	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.2	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.9	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.4	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	24	2.0	5.0	1
02898	Toluene	108-88-3	6.4	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.9	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.9	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.4	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.1	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.5	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.0	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.2	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	5.2	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.5	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	0.99	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.0	0.010	0.051	1
08357	Anthracene	120-12-7	1.0	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.96	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.85	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	0.76	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.86	0.010	0.051	1
08357	Chrysene	218-01-9	0.95	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.73	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.1	0.010	0.051	1
08357	Fluorene	86-73-7	0.98	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	1.0	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.93	0.010	0.051	1
08357	Naphthalene	91-20-3	1.0	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	57.8	0.033	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.172	0.0068	0.0200	1
07046	Barium	7440-39-3	2.33	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0523	0.00076	0.0050	1
01750	Calcium	7440-70-2	11.1	0.0334	0.200	1

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

Sample Description: WS-007(Surface)071213 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126373
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:40 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-7SR- SDG#: PEJ04-08MS

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	0.243	0.0016	0.0150	1
07055	Lead	7439-92-1	0.200	0.0047	0.0150	1
01757	Magnesium	7439-95-4	7.30	0.0167	0.100	1
07061	Nickel	7440-02-0	0.553	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.157	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0514	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.583	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	H131963AA	07/16/2013 00:37	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131963AA	07/16/2013 00:37	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13196WAE026	07/17/2013 20:34	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13196WAE026	07/15/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131986256010	07/17/2013 06:55	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131961848002	07/16/2013 13:27	Eric L Eby	1
07046	Barium	SW-846 6010B	1	131961848002	07/16/2013 13:27	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	131961848002	07/16/2013 13:27	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	131961848002	07/16/2013 13:27	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131961848002	07/16/2013 13:27	Eric L Eby	1
07055	Lead	SW-846 6010B	1	131961848002	07/16/2013 13:27	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131961848002	07/16/2013 13:27	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	131961848002	07/16/2013 13:27	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	131961848002	07/16/2013 13:27	Eric L Eby	1
07066	Silver	SW-846 6010B	1	131961848002	07/16/2013 13:27	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	131961848002	07/16/2013 13:27	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	131965713003	07/16/2013 06:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131961848002	07/15/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131965713003	07/15/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)071213 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126374
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:40 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-7SR- SDG#: PEJ04-08MSD

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	35	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.2	0.1	0.5	1
02898	Benzene	71-43-2	4.9	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.0	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.1	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	4.8	0.1	0.5	1
02898	Bromoform	75-25-2	4.5	0.1	0.5	1
02898	Bromomethane	74-83-9	4.3	0.1	0.5	1
02898	2-Butanone	78-93-3	36	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.0	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.1	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.2	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.2	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.1	0.1	0.5	1
02898	Chloroethane	75-00-3	4.3	0.1	0.5	1
02898	Chloroform	67-66-3	5.0	0.1	0.5	1
02898	Chloromethane	74-87-3	3.8	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.1	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.1	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.0	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	4.7	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.0	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.7	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.0	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.1	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.0	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.1	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	4.9	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.8	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.4	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.0	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.3	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.2	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	4.9	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.8	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	4.9	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.2	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	4.6	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.1	0.1	0.5	1
02898	Ethylbenzene	100-41-4	4.9	0.1	0.5	1
02898	Freon 113	76-13-1	5.2	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.9	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.0	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	4.8	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	4.9	0.2	0.5	1

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

Sample Description: WS-007(Surface)071213 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126374
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:40 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-7SR- SDG#: PEJ04-08MSD

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	5.0	0.1	0.5	1
02898	Styrene	100-42-5	5.1	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	4.9	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.8	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.2	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	25	2.0	5.0	1
02898	Toluene	108-88-3	6.1	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.7	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.9	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.2	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	4.9	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.2	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	4.6	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.8	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.0	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.0	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.2	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	15	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	0.011	0.053	1
08357	Acenaphthylene	208-96-8	1.0	0.011	0.053	1
08357	Anthracene	120-12-7	0.93	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	0.97	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	0.89	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	1.0	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	0.83	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	0.90	0.011	0.053	1
08357	Chrysene	218-01-9	0.92	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	0.81	0.011	0.053	1
08357	Fluoranthene	206-44-0	1.1	0.011	0.053	1
08357	Fluorene	86-73-7	1.0	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	1.0	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.96	0.011	0.053	1
08357	Naphthalene	91-20-3	1.1	0.032	0.053	1
08357	Phenanthrene	85-01-8	1.1	0.032	0.053	1
08357	Pyrene	129-00-0	1.1	0.011	0.053	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	62.0	0.033	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.172	0.0068	0.0200	1
07046	Barium	7440-39-3	2.38	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0527	0.00076	0.0050	1
01750	Calcium	7440-70-2	11.3	0.0334	0.200	1

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

Sample Description: WS-007(Surface)071213 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126374
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:40 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-7SR- SDG#: PEJ04-08MSD

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	0.247	0.0016	0.0150	1
07055	Lead	7439-92-1	0.208	0.0047	0.0150	1
01757	Magnesium	7439-95-4	8.18	0.0167	0.100	1
07061	Nickel	7440-02-0	0.560	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.159	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0514	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.589	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0012	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	H131963AA	07/16/2013 00:57	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131963AA	07/16/2013 00:57	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13196WAE026	07/17/2013 21:01	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13196WAE026	07/15/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131986256010	07/17/2013 06:55	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131961848002	07/16/2013 13:31	Eric L Eby	1
07046	Barium	SW-846 6010B	1	131961848002	07/16/2013 13:31	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	131961848002	07/16/2013 13:31	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	131961848002	07/16/2013 13:31	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131961848002	07/16/2013 13:31	Eric L Eby	1
07055	Lead	SW-846 6010B	1	131961848002	07/16/2013 13:31	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131961848002	07/16/2013 13:31	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	131961848002	07/16/2013 13:31	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	131961848002	07/16/2013 13:31	Eric L Eby	1
07066	Silver	SW-846 6010B	1	131961848002	07/16/2013 13:31	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	131961848002	07/16/2013 13:31	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	131965713003	07/16/2013 06:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131961848002	07/15/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131965713003	07/15/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)071213 DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126375
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:40 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-7SR- SDG#: PEJ04-08DUP

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 CaCO3	471-34-1	42.8	0.033	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0193 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.295	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0013 J	0.00076	0.0050	1
01750	Calcium	7440-70-2	8.30	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0254	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0599	0.0047	0.0150	1
01757	Magnesium	7439-95-4	5.36	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0298	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	0.0447	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00010 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
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131986256010	07/17/2013 06:55	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131961848002	07/16/2013 13:24	Eric L Eby	1
07046	Barium	SW-846 6010B	1	131961848002	07/16/2013 13:24	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	131961848002	07/16/2013 13:24	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	131961848002	07/16/2013 13:24	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131961848002	07/16/2013 13:24	Eric L Eby	1
07055	Lead	SW-846 6010B	1	131961848002	07/16/2013 13:24	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131961848002	07/16/2013 13:24	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	131961848002	07/16/2013 13:24	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	131961848002	07/16/2013 13:24	Eric L Eby	1
07066	Silver	SW-846 6010B	1	131961848002	07/16/2013 13:24	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	131961848002	07/16/2013 13:24	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	131965713003	07/16/2013 06:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131961848002	07/15/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131965713003	07/15/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126376
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:50 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-705- SDG#: PEJ04-09

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 purge**		**ug/l**		**ug/l**	**ug/l**	
02898	Acetone	67-64-1	3.1	J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	N.D.		0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.		1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.		0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.		0.1	0.5	1
02898	Chloroform	67-66-3	N.D.		0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.		0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.		0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.		0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1

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

Sample Description: WS-007(0.5-1.0)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126376
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:50 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-705- SDG#: PEJ04-09

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	3.7	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	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	0.12	0.011	0.053	1
08357	Acenaphthylene	208-96-8	0.14	0.011	0.053	1
08357	Anthracene	120-12-7	0.17	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	0.28	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	0.35	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	1.2	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	0.35	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	0.36	0.011	0.053	1
08357	Chrysene	218-01-9	0.40	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	0.074	0.011	0.053	1
08357	Fluoranthene	206-44-0	0.81	0.011	0.053	1
08357	Fluorene	86-73-7	0.13	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.38	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	0.064	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.085	0.011	0.053	1
08357	Naphthalene	91-20-3	0.15	0.032	0.053	1
08357	Phenanthrene	85-01-8	0.29	0.032	0.053	1
08357	Pyrene	129-00-0	0.88	0.011	0.053	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	82.5	0.033	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0380	0.0068	0.0200	1
07046	Barium	7440-39-3	0.740	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0030 J	0.00076	0.0050	1
01750	Calcium	7440-70-2	12.3	0.0334	0.200	1

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

Sample Description: WS-007(0.5-1.0)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126376
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 09:50 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-705- SDG#: PEJ04-09

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	0.0814	0.0016	0.0150	1
07055	Lead	7439-92-1	0.174	0.0047	0.0150	1
01757	Magnesium	7439-95-4	12.5	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0914	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.0105 J	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.124	0.0020	0.0050	1
		SW-846 7470A	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00021	0.000060	0.00020	1

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	H131963AA	07/16/2013 03:20	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131963AA	07/16/2013 03:20	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13196WAE026	07/18/2013 09:13	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13196WAE026	07/15/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131986256010	07/17/2013 06:55	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131961848002	07/16/2013 14:17	Eric L Eby	1
07046	Barium	SW-846 6010B	1	131961848002	07/16/2013 14:17	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	131961848002	07/16/2013 14:17	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	131961848002	07/16/2013 14:17	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131961848002	07/16/2013 14:17	Eric L Eby	1
07055	Lead	SW-846 6010B	1	131961848002	07/16/2013 14:17	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131961848002	07/16/2013 14:17	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	131961848002	07/16/2013 14:17	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	131961848002	07/16/2013 14:17	Eric L Eby	1
07066	Silver	SW-846 6010B	1	131961848002	07/16/2013 14:17	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	131961848002	07/16/2013 14:17	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	131965713003	07/16/2013 06:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131961848002	07/15/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131965713003	07/15/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-006(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126377
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 10:00 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-6SR- SDG#: PEJ04-10

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 purge**		**ug/l**		**ug/l**	**ug/l**	
02898	Acetone	67-64-1	3.1	J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	N.D.		0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.		1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.		0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.		0.1	0.5	1
02898	Chloroform	67-66-3	N.D.		0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.		0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.		0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.		0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	1		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)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126377
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 10:00 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-6SR- SDG#: PEJ04-10

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.055	1
08357	Naphthalene	91-20-3	0.13	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	0.093	0.011	0.055	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	26.6	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	0.0522	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.02	0.0334	0.200	1

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

Sample Description: WS-006(Surface)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126377
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 10:00 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-6SR- SDG#: PEJ04-10

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**	
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	2.82	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0015 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	H131963AA	07/16/2013 03:40	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131963AA	07/16/2013 03:40	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13196WAE026	07/18/2013 09:40	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13196WAE026	07/15/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131986256010	07/17/2013 06:55	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131961848002	07/16/2013 14:20	Eric L Eby	1
07046	Barium	SW-846 6010B	1	131961848002	07/16/2013 14:20	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	131961848002	07/16/2013 14:20	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	131961848002	07/16/2013 14:20	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131961848002	07/16/2013 14:20	Eric L Eby	1
07055	Lead	SW-846 6010B	1	131961848002	07/16/2013 14:20	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131961848002	07/16/2013 14:20	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	131961848002	07/16/2013 14:20	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	131961848002	07/16/2013 14:20	Eric L Eby	1
07066	Silver	SW-846 6010B	1	131961848002	07/16/2013 14:20	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	131961848002	07/16/2013 14:20	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	131965713003	07/16/2013 06:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131961848002	07/15/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131965713003	07/15/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126378
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 10:10 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-605- SDG#: PEJ04-11

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	0.5	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)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126378
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 10:10 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-605- SDG#: PEJ04-11

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	0.013 J	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.055	1
08357	Naphthalene	91-20-3	0.15	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	0.36	0.011	0.055	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	27.7	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	0.0493	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.26	0.0334	0.200	1

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

Sample Description: WS-006(0.5-1.0)071213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126378
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013 10:10 by AP

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

-605- SDG#: PEJ04-11

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**	
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	2.92	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0017 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	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	H131963AA	07/16/2013 04:01	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131963AA	07/16/2013 04:01	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13196WAE026	07/18/2013 10:07	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13196WAE026	07/15/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131986256010	07/17/2013 06:55	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131961848002	07/16/2013 14:24	Eric L Eby	1
07046	Barium	SW-846 6010B	1	131961848002	07/16/2013 14:24	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	131961848002	07/16/2013 14:24	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	131961848002	07/16/2013 14:24	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131961848002	07/16/2013 14:24	Eric L Eby	1
07055	Lead	SW-846 6010B	1	131961848002	07/16/2013 14:24	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131961848002	07/16/2013 14:24	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	131961848002	07/16/2013 14:24	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	131961848002	07/16/2013 14:24	Eric L Eby	1
07066	Silver	SW-846 6010B	1	131961848002	07/16/2013 14:24	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	131961848002	07/16/2013 14:24	Eric L Eby	1
00259	Mercury	SW-846 7470A	1	131965713003	07/16/2013 06:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131961848002	07/15/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131965713003	07/15/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-TB-95-071213 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126379
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

TB95- SDG#: PEJ04-12TB*

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 purge**		ug/l	ug/l	ug/l	
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-95-071213 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7126379
LL Group # 1403854
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/12/2013

Submitted: 07/13/2013 09:20
Reported: 07/23/2013 06:35

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

TB95- SDG#: PEJ04-12TB*

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 purge**		ug/l	ug/l	ug/l	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1

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	H131963AA	07/15/2013 23:56	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131963AA	07/15/2013 23:56	Kevin A Sposito	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1403854
Reported: 07/23/13 at 06:35 AM

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

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: H131963AA	Sample number(s): 7126365,7126367-7126374,7126376-7126379								
Acetone	N.D.	3.0	5.0	ug/l	93		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	79		61-130		
Benzene	N.D.	0.1	0.5	ug/l	94		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	97		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	97		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	91		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	88		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	83		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	106		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	93		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	98		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	97		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	98		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	83		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	96		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	73		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	96		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	99		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	110		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	92		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	97		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	91		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	98		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	99		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	98		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	60		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	91		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	94		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	101		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	94		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	101		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	99		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	95		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	93		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	92		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	98		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	91		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	91		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	84		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	95		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	90		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: 1403854
Reported: 07/23/13 at 06:35 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	96		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	94		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	93		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	88		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	95		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
Styrene	N.D.	0.1	0.5	ug/l	100		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	95		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	92		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	100		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	108		65-131		
Toluene	N.D.	0.1	0.5	ug/l	96		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	91		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	95		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	95		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	99		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	87		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	99		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	96		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	95		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	80		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	98		80-120		
Batch number: H131971AA	Sample number(s): 7126366								
Acetone	N.D.	3.0	5.0	ug/l	94		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	80		61-130		
Benzene	N.D.	0.1	0.5	ug/l	94		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	96		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	99		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	91		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	88		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	80		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	99		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	92		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	93		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	97		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	98		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	96		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	79		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	96		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	70		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	96		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	99		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	98		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	92		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	96		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	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	98		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	97		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	57		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	92		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	92		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	101		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	95		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: 1403854
Reported: 07/23/13 at 06:35 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	102		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	97		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	94		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	90		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	92		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	97		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	89		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	78		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	92		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	94		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	90		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	94		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	90		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	87		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	94		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
Styrene	N.D.	0.1	0.5	ug/l	98		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	94		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	91		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	98		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	101		65-131		
Toluene	N.D.	0.1	0.5	ug/l	96		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	83		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	88		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	96		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	98		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	84		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	94		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	76		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	96		80-120		
Batch number: 13196WAE026	Sample number(s): 7126365-7126374,7126376-7126378								
Acenaphthene	N.D.	0.010	0.050	ug/l	100		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	102		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	98		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	95		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	96		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	110		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	104		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	103		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	101		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	100		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	102		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	96		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	100		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	98		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	90		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	99		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	104		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	103		71-116		

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1403854
Reported: 07/23/13 at 06:35 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 131961848002	Sample number(s): 7126365-7126378								
Arsenic	N.D.	0.0068	0.0200	mg/l	106		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	105		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	106		90-112		
Calcium	0.0548 J	0.0334	0.200	mg/l	105		90-110		
Chromium	N.D.	0.0016	0.0150	mg/l	106		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	110		88-110		
Magnesium	N.D.	0.0167	0.100	mg/l	104		90-110		
Nickel	N.D.	0.0015	0.0100	mg/l	109		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	108		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	104		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	107		90-110		
Batch number: 131965713003	Sample number(s): 7126365-7126378								
Mercury	N.D.	0.00006 0	0.00020	mg/l	109		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: H131963AA	Sample number(s): 7126365,7126367-7126374,7126376-7126379 UNSPK: 7126372								
Acetone	84	85	57-163	1	30				
Allyl Chloride	87	84	67-139	4	30				
Benzene	103	99	87-126	4	30				
Bromobenzene	103	100	80-123	3	30				
Bromochloromethane	105	102	82-125	3	30				
Bromodichloromethane	100	97	82-133	3	30				
Bromoform	97	91	60-138	7	30				
Bromomethane	91	86	41-145	6	30				
2-Butanone	93	96	63-146	3	30				
n-Butylbenzene	102	100	83-131	2	30				
sec-Butylbenzene	103	101	84-128	2	30				
tert-Butylbenzene	108	104	84-135	4	30				
Carbon Tetrachloride	111	104	81-148	6	30				
Chlorobenzene	106	102	78-133	4	30				
Chloroethane	90	86	70-139	5	30				
Chloroform	105	101	86-136	4	30				
Chloromethane	82	76	55-152	6	30				
2-Chlorotoluene	103	101	81-120	2	30				
4-Chlorotoluene	108	103	82-119	5	30				
1,2-Dibromo-3-chloropropane	101	99	43-143	2	30				
Dibromochloromethane	102	94	79-125	8	30				
1,2-Dibromoethane	106	100	84-127	6	30				
Dibromomethane	99	94	83-126	4	30				
1,2-Dichlorobenzene	105	100	83-117	5	30				
1,3-Dichlorobenzene	105	102	81-118	2	30				
1,4-Dichlorobenzene	105	101	79-120	4	30				
Dichlorodifluoromethane	67	63	28-136	6	30				
1,1-Dichloroethane	101	98	88-136	2	30				

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Quality Control Summary

Client Name: ExxonMobil Group Number: 1403854
Reported: 07/23/13 at 06:35 AM

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	99	96	82-135	3	30				
1,1-Dichloroethene	115	108	83-150	6	30				
cis-1,2-Dichloroethene	104	99	82-129	5	30				
trans-1,2-Dichloroethene	112	106	88-127	6	30				
Dichlorofluoromethane	111	104	59-176	7	30				
1,2-Dichloropropane	103	97	91-126	6	30				
1,3-Dichloropropane	100	96	80-127	4	30				
2,2-Dichloropropane	105	99	80-134	6	30				
1,1-Dichloropropene	111	105	86-139	5	30				
cis-1,3-Dichloropropene	98	95	74-132	3	30				
trans-1,3-Dichloropropene	97	93	71-128	5	30				
Ethyl ether	86	82	67-127	6	30				
Ethylbenzene	103	98	80-140	5	30				
Freon 113	109	104	87-158	5	30				
Hexachlorobutadiene	100	97	65-128	3	30				
Isopropylbenzene	105	100	81-133	5	30				
p-Isopropyltoluene	103	100	84-124	3	30				
Methyl Tertiary Butyl Ether	100	97	82-132	3	30				
4-Methyl-2-Pentanone	96	92	69-149	4	30				
Methylene Chloride	103	98	84-122	5	30				
n-Propylbenzene	104	100	79-131	4	30				
Styrene	107	102	63-151	5	30				
1,1,1,2-Tetrachloroethane	104	98	87-126	5	30				
1,1,2,2-Tetrachloroethane	97	95	75-131	2	30				
Tetrachloroethene	109	105	75-129	4	30				
Tetrahydrofuran	96	99	56-154	3	30				
Toluene	116	110	83-127	5	30				
1,2,3-Trichlorobenzene	97	94	73-125	3	30				
1,2,4-Trichlorobenzene	99	97	77-120	2	30				
1,1,1-Trichloroethane	108	104	85-140	4	30				
1,1,2-Trichloroethane	102	99	85-129	4	30				
Trichloroethene	109	105	85-131	4	30				
Trichlorofluoromethane	99	93	67-161	7	30				
1,2,3-Trichloropropane	104	96	76-120	8	30				
1,2,4-Trimethylbenzene	103	100	87-126	4	30				
1,3,5-Trimethylbenzene	104	100	89-129	3	30				
Vinyl Chloride	90	84	65-151	6	30				
Xylene (Total)	107	102	81-137	5	30				
Batch number: H131971AA	Sample number(s): 7126366 UNSPK: P127249								
Acetone	94	106	57-163	12	30				
Allyl Chloride	75	79	67-139	6	30				
Benzene	86*	94	87-126	8	30				
Bromobenzene	93	101	80-123	9	30				
Bromochloromethane	92	97	82-125	5	30				
Bromodichloromethane	88	95	82-133	8	30				
Bromoform	90	98	60-138	9	30				
Bromomethane	82	84	41-145	3	30				
2-Butanone	92	103	63-146	11	30				
n-Butylbenzene	88	98	83-131	10	30				
sec-Butylbenzene	89	100	84-128	12	30				
tert-Butylbenzene	95	104	84-135	9	30				

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Quality Control Summary

Client Name: ExxonMobil Group Number: 1403854
Reported: 07/23/13 at 06:35 AM

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	99	81-148	7	30				
Chlorobenzene	93	101	78-133	8	30				
Chloroethane	83	84	70-139	1	30				
Chloroform	89	96	86-136	7	30				
Chloromethane	71	73	55-152	3	30				
2-Chlorotoluene	90	102	81-120	12	30				
4-Chlorotoluene	94	104	82-119	10	30				
1,2-Dibromo-3-chloropropane	94	106	43-143	12	30				
Dibromochloromethane	90	99	79-125	9	30				
1,2-Dibromoethane	93	99	84-127	6	30				
Dibromomethane	86	91	83-126	6	30				
1,2-Dichlorobenzene	93	103	83-117	10	30				
1,3-Dichlorobenzene	93	102	81-118	9	30				
1,4-Dichlorobenzene	93	102	79-120	10	30				
Dichlorodifluoromethane	57	57	28-136	0	30				
1,1-Dichloroethane	84*	89	88-136	6	30				
1,2-Dichloroethane	85	90	82-135	6	30				
1,1-Dichloroethene	91	100	83-150	10	30				
cis-1,2-Dichloroethene	86	92	82-129	6	30				
trans-1,2-Dichloroethene	90	98	88-127	8	30				
Dichlorofluoromethane	101	103	59-176	2	30				
1,2-Dichloropropane	88*	95	91-126	8	30				
1,3-Dichloropropane	88	94	80-127	8	30				
2,2-Dichloropropane	86	93	80-134	8	30				
1,1-Dichloropropene	90	98	86-139	9	30				
cis-1,3-Dichloropropene	87	93	74-132	7	30				
trans-1,3-Dichloropropene	87	94	71-128	7	30				
Ethyl ether	73	72	67-127	2	30				
Ethylbenzene	89	96	80-140	8	30				
Freon 113	88	93	87-158	6	30				
Hexachlorobutadiene	87	99	65-128	13	30				
Isopropylbenzene	92	100	81-133	8	30				
p-Isopropyltoluene	89	101	84-124	12	30				
Methyl Tertiary Butyl Ether	84	90	82-132	7	30				
4-Methyl-2-Pentanone	88	95	69-149	7	30				
Methylene Chloride	86	92	84-122	6	30				
n-Propylbenzene	90	100	79-131	11	30				
Styrene	94	103	63-151	8	30				
1,1,1,2-Tetrachloroethane	91	100	87-126	9	30				
1,1,2,2-Tetrachloroethane	90	103	75-131	14	30				
Tetrachloroethene	95	102	75-129	7	30				
Tetrahydrofuran	92	103	56-154	11	30				
Toluene	92	100	83-127	9	30				
1,2,3-Trichlorobenzene	81	87	73-125	7	30				
1,2,4-Trichlorobenzene	85	93	77-120	9	30				
1,1,1-Trichloroethane	89	96	85-140	7	30				
1,1,2-Trichloroethane	92	100	85-129	9	30				
Trichloroethene	91	99	85-131	8	30				
Trichlorofluoromethane	89	90	67-161	1	30				
1,2,3-Trichloropropane	92	102	76-120	10	30				
1,2,4-Trimethylbenzene	91	100	87-126	10	30				
1,3,5-Trimethylbenzene	91	101	89-129	10	30				

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Quality Control Summary

Client Name: ExxonMobil Group Number: 1403854
Reported: 07/23/13 at 06:35 AM

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
Vinyl Chloride	79	80	65-151	1	30				
Xylene (Total)	94	102	81-137	8	30				
Batch number: 13196WAE026	Sample number(s): 7126365-7126374,7126376-7126378 UNSPK: 7126372								
Acenaphthene	95	93	59-127	2	30				
Acenaphthylene	97	96	33-146	4	30				
Anthracene	100	85	69-119	11	30				
Benzo(a)anthracene	90	87	67-124	1	30				
Benzo(a)pyrene	78	78	64-123	4	30				
Benzo(b)fluoranthene	83	79	61-133	0	30				
Benzo(g,h,i)perylene	69	73	36-138	9	30				
Benzo(k)fluoranthene	80	80	59-128	5	30				
Chrysene	83	76	62-118	4	30				
Dibenz(a,h)anthracene	70	75	32-141	11	30				
Fluoranthene	95	86	65-123	5	30				
Fluorene	94	93	69-124	4	30				
Indeno(1,2,3-cd)pyrene	69	73	29-143	9	30				
1-Methylnaphthalene	96	96	67-117	4	30				
2-Methylnaphthalene	89	88	71-126	3	30				
Naphthalene	100	105	58-131	9	30				
Phenanthrene	97	95	67-117	1	30				
Pyrene	97	87	59-125	6	30				
Batch number: 131961848002	Sample number(s): 7126365-7126378 UNSPK: 7126372 BKG: 7126372								
Arsenic	102	102	81-123	0	20	0.0190 J	0.0193 J	2 (1)	20
Barium	102	104	78-118	2	20	0.293	0.295	1	20
Cadmium	102	103	83-116	1	20	0.0012 J	0.0013 J	2 (1)	20
Calcium	67*	73*	81-118	2	20	8.43	8.30	2	20
Chromium	109	111	81-120	2	20	0.0242	0.0254	5 (1)	20
Lead	95	100	75-125	4	20	0.0578	0.0599	3 (1)	20
Magnesium	101	145*	75-125	11	20	5.29	5.36	1	20
Nickel	105	106	86-115	1	20	0.0299	0.0298	0 (1)	20
Selenium	104	106	75-125	2	20	N.D.	N.D.	0 (1)	20
Silver	103	103	75-125	0	20	N.D.	N.D.	0 (1)	20
Vanadium	108	109	90-111	1	20	0.0429	0.0447	4	20
Batch number: 131965713003	Sample number(s): 7126365-7126378 UNSPK: 7126372 BKG: 7126372								
Mercury	103	108	80-120	5	20	0.00011 J	0.00010 J	6 (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: H131963AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7126365	103	102	100	98

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Quality Control Summary

Client Name: ExxonMobil Group Number: 1403854
Reported: 07/23/13 at 06:35 AM

Surrogate Quality Control

7126367	103	102	101	99
7126368	105	105	100	96
7126369	104	103	99	96
7126370	104	106	100	97
7126371	103	102	101	98
7126372	103	102	101	97
7126373	104	101	101	99
7126374	103	101	101	99
7126376	106	104	100	96
7126377	104	102	101	98
7126378	104	101	101	98
7126379	104	104	101	98
Blank	104	104	101	98
LCS	104	103	102	100
MS	104	101	101	99
MSD	103	101	101	99
Limits:	77-114	74-113	77-110	78-110

Analysis Name: BTEX 25-ml purge
Batch number: H131971AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7126366	104	104	101	97
Blank	104	106	101	97
LCS	103	102	101	99
MS	103	102	102	101
MSD	103	101	101	99
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13196WAE026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7126365	97	70	95
7126366	96	79	97
7126367	98	79	97
7126368	96	70	96
7126369	96	75	95
7126370	94	99	95
7126371	92	89	97
7126372	85	78	94
7126373	91	91	99
7126374	91	93	100
7126376	51*	38*	66
7126377	89	67	89
7126378	91	67	93
Blank	99	102	100
LCS	94	103	100
MS	91	91	99
MSD	91	93	100
Limits:	64-120	62-141	58-134

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Quality Control Summary

Client Name: ExxonMobil Group Number: 1403854
Reported: 07/23/13 at 06:35 AM

Surrogate Quality Control

*- Outside of specification
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ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 14739 Group # 1403854 Sample # FM 6365-79

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

1 of 2

SCR#: _____

1 Client Information

Facility #/SID: MAYFLOWER PIPELINE INCIDENT

Site Address: MAYFLOWER, AR

ExxonMobil PM: SCOTT BUSHROE

Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: STEVE BARRICK

Consultant Phone #: 919 202 6779

Sampler: A. PARRINELLO / H. VAN ALLER

4 Matrix

Sediment ☐ Soil ☐

Ground ☐ Potable ☐ Surface ☑ NPDES ☐ Water

Air ☐ Oil ☐

5 Analyses Requested

Preservation Code

Preservation Codes

H = HCl T = Thiosulfate

N = HNO_3 B = NaOH

S = H_2SO_4 O = Other

6 Remarks

MS/MSD

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	Total # of Containers	VOCs 8260	PAHs 8270	RCRA METALS (As, V, Mg)
WS-003 (SURFACE) 071213	07/12/13	745	✓		6			
WS-002 (SURFACE) 071213		800	✓		6			
WS-005 (SURFACE) 071213		835	✓		6			
WS-001 (SURFACE) 071213		850	✓		6			
WS-001 (0.5-1.0) 071213		900	✓		6			
WS-004 (SURFACE) 071213		910	✓		6			
WS-004 (0.5-1.0) 071213		930	✓		6			
WS-007 (SURFACE) 071213		940	✓		6			
WS-007 (SURFACE) 071213 MS/MSD		940	✓		12			
WS-007 (0.5-1.0) 071213		950	✓		6			
WS-006 (SURFACE) 071213		1000	✓		6			
WS-006 (0.5-1.0) 071213		1010	✓		6			

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package (circle if required)

Type I - Full

Type VI (Raw Data)

NJ Reduced

Other _____

EDD (circle if required)

Locus EIM (default)

Other _____

Relinquished by	Date	Time	Received by	Date	Time
	7/12/13	1200			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier			Received by	7/13/13	0920

UPS _____ FedEx ✓ Other _____

Temperature Upon Receipt 0.7, 2.0 °C

Custody Seals Intact? Yes No

9

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 14739 Group # 1403854 For Lancaster Laboratories use only Sample # 7126365-79

Instructions on reverse side correspond with circled numbers.

2 OF 2

SCR#: _____

1 Client Information

Facility #/SID: MAYFLOWER PIPELINE INCIDENT

Site Address: MAY FLOWER, AR

ExxonMobil PM: SCOTT BUSHROE

Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: STEVEN BARRICK

Consultant Phone #: 919 202 6779

Sampler: A. PARRINELLO / M. VAN ALLER

2 Sample Identification

Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Water: Ground	Water: Potable	Water: Surface	Water: NPDES	Air	Oil	Total # of Containers	5 Analyses Requested: Preservation Code H: VOCs 8260
WS-TB-95-071213	7/12/13	—	✓				✓					2	✓

Preservation Codes

H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; O = Other

6 Remarks

ANALYSIS Q's TO LYNDI MOTT

7 Turnaround Time Requested (TAT) (please circle)

Standard (5 day) 4 day 72 hour 48 hour 24 hour

8 Data Package (circle if required)

Type I - Full
Type VI (Raw Data)
NJ Reduced
Other _____

EDD (circle if required)

Locus EIM (default)
Other _____

Relinquished by	Date	Time	Received by	Date	Time
	7/12/13	1200			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____			Received by	7/13/13	0920

Temperature Upon Receipt 0.7, 2.0 °C

Custody Seals Intact? (Yes) No

9

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G-1403854

Environmental Sample Administration Receipt Documentation Log

Client/Project: ExxonMobil

Date of Receipt: 7/13/13

Time of Receipt: 0920

Source Code: SO

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

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

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT131	2.0	TB	WI	Y	B	SW
2	↓	1.2	↓	↓	↓	↓	SO + turtle swabs
3	↓	0.7	↓	↓	↓	↓	SW
4	↓	0.3	↓	↓	↓	↓	SO
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

SO-NS44-EA2-6TOO1A is missing A on label. - Gr. 1403852

Unpacker Signature/Emp#: 964 **Date/Time:** 7/13/13 0955

Issued by Dept. 6042 Management

2174.06

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ 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 ≥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.