

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

July 11, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 07/03/2013

Group Number: 1401544

SDG: PEI70

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LL)

WS-003(Surface)070213 Grab Surface Water	7116350
WS-002(Surface)070213 Grab Surface Water	7116351
WS-005(Surface)070213 Grab Surface Water	7116352
WS-001(Surface)070213 Grab Surface Water	7116353
WS-001(0.5-1.0)070213 Grab Surface Water	7116354
WS-004(Surface)070213 Grab Surface Water	7116355
WS-004(0.5-1.0)070213 Grab Surface Water	7116356
WS-007(Surface)070213 Grab Surface Water	7116357
WS-007(Surface)070213 MS Grab Surface Water	7116358
WS-007(Surface)070213 MSD Grab Surface Water	7116359
WS-007(Surface)070213 DUP Grab Surface Water	7116360
WS-007(0.5-1.0)070213 Grab Surface Water	7116361
WS-006(Surface)070213 Grab Surface Water	7116362
WS-006(0.5-1.0)070213 Grab Surface Water	7116363
WS-TB-88-070213 Water	7116364

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

ELECTRONIC COPY TO
ARCADIS

Attn: Stephen Barrick

ELECTRONIC COPY TO
ARCADIS

Attn: Lyndi Mott

ELECTRONIC COPY TO
ExxonMobil

Attn: Michael J. Firth

ELECTRONIC COPY TO
ARCADIS

Attn: Emily Leamer

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

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1401544

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 #: C131842AA (Sample number(s): 7116350-7116359, 7116361-7116364 UNSPK: 7116357)

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

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13184WAE026 (Sample number(s): 7116350-7116355, 7116357-7116359, 7116361-7116363 UNSPK: 7116357)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: Fluoranthene, Pyrene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7116351, 7116352, 7116353, 7116354, 7116363

Batch #: 13190WAA026 (Sample number(s): 7116356 UNSPK: P119864)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7116356

Sample #s: 7116351, 7116352, 7116353, 7116356, 7116363

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

SW-846 6010B, Metals

Batch #: 131891848002 (Sample number(s): 7116350-7116363 UNSPK: 7116357 BKG: 7116357)

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

Batch #: 131911848001 (Sample number(s): 7116350-7116363 UNSPK: 7116357 BKG: 7116357)

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

Sample Description: WS-003(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116350
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 08:45 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

3SR-- SDG#: PEI70-01

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

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

Sample Description: WS-003(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116350
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 08:45 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

3SR-- SDG#: PEI70-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	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	0.034 J	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	25.0	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	0.0253	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.64	0.0334	0.200	1

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

Sample Description: WS-003(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116350
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 08:45 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

3SR-- SDG#: PEI70-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.64	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131842AA	07/04/2013 00:57	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/04/2013 00:57	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAE026	07/06/2013 18:38	Joseph M Gambler	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13184WAE026	07/04/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256011	07/11/2013 09:00	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	2	131891848002	07/09/2013 19:20	John P Hook	1
07046	Barium	SW-846 6010B	2	131891848002	07/09/2013 19:20	John P Hook	1
07049	Cadmium	SW-846 6010B	2	131891848002	07/10/2013 04:55	Tara L Snyder	1
01750	Calcium	SW-846 6010B	3	131911848001	07/11/2013 07:17	Joanne M Gates	1
07051	Chromium	SW-846 6010B	2	131891848002	07/09/2013 19:20	John P Hook	1
07055	Lead	SW-846 6010B	2	131891848002	07/10/2013 04:55	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	2	131891848002	07/09/2013 19:20	John P Hook	1
07061	Nickel	SW-846 6010B	2	131891848002	07/10/2013 04:55	Tara L Snyder	1
07036	Selenium	SW-846 6010B	2	131891848002	07/10/2013 04:55	Tara L Snyder	1
07066	Silver	SW-846 6010B	2	131891848002	07/09/2013 19:20	John P Hook	1
07071	Vanadium	SW-846 6010B	2	131891848002	07/09/2013 19:20	John P Hook	1
00259	Mercury	SW-846 7470A	1	131845713003	07/08/2013 08:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131841848005	07/05/2013 09:03	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131891848002	07/09/2013 10:28	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	3	131911848001	07/10/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131845713003	07/05/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116351
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 09:10 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

2SR-- SDG#: PEI70-02

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

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

Sample Description: WS-002(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116351
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 09:10 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

2SR-- SDG#: PEI70-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	0.033 J	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	24.3	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0257	0.00033	0.0050	1

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

Sample Description: WS-002(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116351
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 09:10 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

2SR-- SDG#: PEI70-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.55	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.54	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	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	C131842AA	07/04/2013 01:19	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/04/2013 01:19	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAE026	07/06/2013 19:07	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAE026	07/04/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256011	07/11/2013 09:00	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	2	131891848002	07/09/2013 19:24	John P Hook	1
07046	Barium	SW-846 6010B	2	131891848002	07/09/2013 19:24	John P Hook	1
07049	Cadmium	SW-846 6010B	2	131891848002	07/10/2013 05:06	Tara L Snyder	1
01750	Calcium	SW-846 6010B	3	131911848001	07/11/2013 07:21	Joanne M Gates	1
07051	Chromium	SW-846 6010B	2	131891848002	07/09/2013 19:24	John P Hook	1
07055	Lead	SW-846 6010B	2	131891848002	07/10/2013 05:06	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	2	131891848002	07/09/2013 19:24	John P Hook	1
07061	Nickel	SW-846 6010B	2	131891848002	07/10/2013 05:06	Tara L Snyder	1
07036	Selenium	SW-846 6010B	2	131891848002	07/10/2013 05:06	Tara L Snyder	1
07066	Silver	SW-846 6010B	2	131891848002	07/09/2013 19:24	John P Hook	1
07071	Vanadium	SW-846 6010B	2	131891848002	07/09/2013 19:24	John P Hook	1
00259	Mercury	SW-846 7470A	1	131845713003	07/08/2013 08:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131841848005	07/05/2013 09:03	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131891848002	07/09/2013 10:28	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	3	131911848001	07/10/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131845713003	07/05/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116352
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 10:00 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

5SR-- SDG#: PEI70-03

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

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

Sample Description: WS-005(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116352
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 10:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

5SR-- SDG#: PEI70-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	22.8	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0168	0.00033	0.0050	1

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

Sample Description: WS-005(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116352
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 10:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

5SR-- SDG#: PEI70-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.21	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.37	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	C131842AA	07/04/2013 01:41	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/04/2013 01:41	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAE026	07/07/2013 12:25	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAE026	07/04/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256011	07/11/2013 09:00	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	2	131891848002	07/09/2013 19:36	John P Hook	1
07046	Barium	SW-846 6010B	2	131891848002	07/09/2013 19:36	John P Hook	1
07049	Cadmium	SW-846 6010B	2	131891848002	07/10/2013 05:10	Tara L Snyder	1
01750	Calcium	SW-846 6010B	2	131911848001	07/11/2013 07:32	Joanne M Gates	1
07051	Chromium	SW-846 6010B	2	131891848002	07/09/2013 19:36	John P Hook	1
07055	Lead	SW-846 6010B	2	131891848002	07/10/2013 05:10	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	2	131891848002	07/09/2013 19:36	John P Hook	1
07061	Nickel	SW-846 6010B	2	131891848002	07/10/2013 05:10	Tara L Snyder	1
07036	Selenium	SW-846 6010B	2	131891848002	07/10/2013 05:10	Tara L Snyder	1
07066	Silver	SW-846 6010B	2	131891848002	07/09/2013 19:36	John P Hook	1
07071	Vanadium	SW-846 6010B	2	131891848002	07/09/2013 19:36	John P Hook	1
00259	Mercury	SW-846 7470A	1	131845713003	07/08/2013 08:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131841848005	07/05/2013 09:03	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131891848002	07/09/2013 10:28	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	3	131911848001	07/10/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131845713003	07/05/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-001(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116353
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 10:20 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

1SR-- SDG#: PEI70-04

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

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

Sample Description: WS-001(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116353
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 10:20 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

1SR-- SDG#: PEI70-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	24.0	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0330	0.00033	0.0050	1

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

Sample Description: WS-001(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116353
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 10:20 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

1SR-- SDG#: PEI70-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.43	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.53	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0019 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	C131842AA	07/04/2013 02:03	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/04/2013 02:03	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAE026	07/07/2013 12:54	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAE026	07/04/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256011	07/11/2013 09:00	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	2	131891848002	07/09/2013 19:40	John P Hook	1
07046	Barium	SW-846 6010B	2	131891848002	07/09/2013 19:40	John P Hook	1
07049	Cadmium	SW-846 6010B	2	131891848002	07/10/2013 05:14	Tara L Snyder	1
01750	Calcium	SW-846 6010B	3	131911848001	07/11/2013 07:36	Joanne M Gates	1
07051	Chromium	SW-846 6010B	2	131891848002	07/09/2013 19:40	John P Hook	1
07055	Lead	SW-846 6010B	2	131891848002	07/10/2013 05:14	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	2	131891848002	07/09/2013 19:40	John P Hook	1
07061	Nickel	SW-846 6010B	2	131891848002	07/10/2013 05:14	Tara L Snyder	1
07036	Selenium	SW-846 6010B	2	131891848002	07/10/2013 05:14	Tara L Snyder	1
07066	Silver	SW-846 6010B	2	131891848002	07/09/2013 19:40	John P Hook	1
07071	Vanadium	SW-846 6010B	2	131891848002	07/09/2013 19:40	John P Hook	1
00259	Mercury	SW-846 7470A	1	131845713003	07/08/2013 08:22	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131841848005	07/05/2013 09:03	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131891848002	07/09/2013 10:28	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	3	131911848001	07/10/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131845713003	07/05/2013 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)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116354
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

105-- SDG#: PEI70-05

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

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

Sample Description: WS-001(0.5-1.0)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116354
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 10:30 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

105-- SDG#: PEI70-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	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	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	23.5	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0300	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.43	0.0334	0.200	1

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

Sample Description: WS-001(0.5-1.0)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116354
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 10:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

105-- SDG#: PEI70-05

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	2.42	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0019 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	C131842AA	07/04/2013 02:25	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/04/2013 02:25	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAE026	07/07/2013 13:24	Joseph M Gambler	1
10470	BNW Water Extraction (SIM)	SW-846 3510C	1	13184WAE026	07/04/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256011	07/11/2013 09:00	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	2	131891848002	07/09/2013 19:44	John P Hook	1
07046	Barium	SW-846 6010B	2	131891848002	07/09/2013 19:44	John P Hook	1
07049	Cadmium	SW-846 6010B	2	131891848002	07/10/2013 05:17	Tara L Snyder	1
01750	Calcium	SW-846 6010B	2	131911848001	07/11/2013 07:39	Joanne M Gates	1
07051	Chromium	SW-846 6010B	2	131891848002	07/09/2013 19:44	John P Hook	1
07055	Lead	SW-846 6010B	2	131891848002	07/10/2013 05:17	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	2	131891848002	07/09/2013 19:44	John P Hook	1
07061	Nickel	SW-846 6010B	2	131891848002	07/10/2013 05:17	Tara L Snyder	1
07036	Selenium	SW-846 6010B	2	131891848002	07/10/2013 05:17	Tara L Snyder	1
07066	Silver	SW-846 6010B	2	131891848002	07/09/2013 19:44	John P Hook	1
07071	Vanadium	SW-846 6010B	2	131891848002	07/09/2013 19:44	John P Hook	1
00259	Mercury	SW-846 7470A	1	131845713003	07/08/2013 08:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131841848005	07/05/2013 09:03	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131891848002	07/09/2013 10:28	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	3	131911848001	07/10/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131845713003	07/05/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-004(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116355
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 10:50 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

4SR-- SDG#: PEI70-06

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

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

Sample Description: WS-004(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116355
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 10:50 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

4SR-- SDG#: PEI70-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	0.018 J	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	0.015 J	0.011	0.055	1
08357	Naphthalene	91-20-3	0.044 J	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	N.D.	0.011	0.055	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	17.6	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	0.0316	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	4.21	0.0334	0.200	1

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

Sample Description: WS-004(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116355
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 10:50 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

4SR-- SDG#: PEI70-06

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	0.0017 J	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	1.72	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0022 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.0029 J	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131842AA	07/04/2013 02:47	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/04/2013 02:47	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAE026	07/07/2013 13:53	Joseph M Gambler	1
10470	BNW Water Extraction (SIM)	SW-846 3510C	1	13184WAE026	07/04/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256011	07/11/2013 09:00	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	2	131891848002	07/09/2013 19:48	John P Hook	1
07046	Barium	SW-846 6010B	2	131891848002	07/09/2013 19:48	John P Hook	1
07049	Cadmium	SW-846 6010B	2	131891848002	07/10/2013 05:21	Tara L Snyder	1
01750	Calcium	SW-846 6010B	2	131911848001	07/11/2013 07:43	Joanne M Gates	1
07051	Chromium	SW-846 6010B	2	131891848002	07/09/2013 19:48	John P Hook	1
07055	Lead	SW-846 6010B	2	131891848002	07/10/2013 05:21	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	2	131891848002	07/09/2013 19:48	John P Hook	1
07061	Nickel	SW-846 6010B	2	131891848002	07/10/2013 05:21	Tara L Snyder	1
07036	Selenium	SW-846 6010B	2	131891848002	07/10/2013 05:21	Tara L Snyder	1
07066	Silver	SW-846 6010B	2	131891848002	07/09/2013 19:48	John P Hook	1
07071	Vanadium	SW-846 6010B	2	131891848002	07/09/2013 19:48	John P Hook	1
00259	Mercury	SW-846 7470A	1	131845713003	07/08/2013 08:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131841848005	07/05/2013 09:03	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131891848002	07/09/2013 10:28	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	3	131911848001	07/10/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131845713003	07/05/2013 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)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116356
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:00 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

405-- SDG#: PEI70-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	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-004(0.5-1.0)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116356
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:00 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

405-- SDG#: PEI70-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	1.5	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	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	0.015 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.035 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.051	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.083	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.049 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.056	0.010	0.051	1
08357	Chrysene	218-01-9	0.071	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.076	0.010	0.051	1
08357	Fluorene	86-73-7	0.014 J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.039 J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.030 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.037 J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	0.041 J	0.030	0.051	1
08357	Pyrene	129-00-0	0.079	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	24.7	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0088 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.101	0.00033	0.0050	1

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

Sample Description: WS-004(0.5-1.0)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116356
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

405-- SDG#: PEI70-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.77	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0090 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0336	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.50	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0088 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	0.0120	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	C131842AA	07/04/2013 03:09	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/04/2013 03:09	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13190WAA026	07/10/2013 11:33	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13190WAA026	07/09/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256011	07/11/2013 09:00	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	2	131891848002	07/09/2013 19:52	John P Hook	1
07046	Barium	SW-846 6010B	2	131891848002	07/09/2013 19:52	John P Hook	1
07049	Cadmium	SW-846 6010B	2	131891848002	07/10/2013 05:24	Tara L Snyder	1
01750	Calcium	SW-846 6010B	3	131911848001	07/11/2013 07:47	Joanne M Gates	1
07051	Chromium	SW-846 6010B	2	131891848002	07/09/2013 19:52	John P Hook	1
07055	Lead	SW-846 6010B	2	131891848002	07/10/2013 05:24	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	2	131891848002	07/09/2013 19:52	John P Hook	1
07061	Nickel	SW-846 6010B	2	131891848002	07/10/2013 05:24	Tara L Snyder	1
07036	Selenium	SW-846 6010B	2	131891848002	07/10/2013 05:24	Tara L Snyder	1
07066	Silver	SW-846 6010B	2	131891848002	07/09/2013 19:52	John P Hook	1
07071	Vanadium	SW-846 6010B	2	131891848002	07/09/2013 19:52	John P Hook	1
00259	Mercury	SW-846 7470A	1	131845713003	07/08/2013 08:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131841848005	07/05/2013 09:03	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131891848002	07/09/2013 10:28	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	3	131911848001	07/10/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131845713003	07/05/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116357
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:30 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

7SR-- SDG#: PEI70-08BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	6.4	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)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116357
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

7SR-- SDG#: PEI70-08BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	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	0.014 J	0.010	0.052	1
08357	Anthracene	120-12-7	0.016 J	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.086	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.052	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.075	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.027 J	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.055	0.010	0.052	1
08357	Chrysene	218-01-9	0.080	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.013 J	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.13	0.010	0.052	1
08357	Fluorene	86-73-7	0.014 J	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.032 J	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.016 J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.013 J	0.010	0.052	1
08357	Naphthalene	91-20-3	0.14	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.045 J	0.031	0.052	1
08357	Pyrene	129-00-0	0.094	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	24.9	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0073 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0700	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.25	0.0334	0.200	1

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

Sample Description: WS-007(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116357
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

7SR-- SDG#: PEI70-08BKG

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	0.0046 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0085 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.24	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0100	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	0.0089	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	C131842AA	07/04/2013 04:37	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/04/2013 04:37	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAE026	07/06/2013 11:45	Joseph M Gambler	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13184WAE026	07/04/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256011	07/11/2013 09:00	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	2	131891848002	07/09/2013 18:56	John P Hook	1
07046	Barium	SW-846 6010B	2	131891848002	07/09/2013 18:56	John P Hook	1
07049	Cadmium	SW-846 6010B	2	131891848002	07/10/2013 04:34	Tara L Snyder	1
01750	Calcium	SW-846 6010B	2	131911848001	07/11/2013 06:54	Joanne M Gates	1
07051	Chromium	SW-846 6010B	2	131891848002	07/09/2013 18:56	John P Hook	1
07055	Lead	SW-846 6010B	2	131891848002	07/10/2013 04:34	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	2	131891848002	07/09/2013 18:56	John P Hook	1
07061	Nickel	SW-846 6010B	2	131891848002	07/10/2013 04:34	Tara L Snyder	1
07036	Selenium	SW-846 6010B	2	131891848002	07/10/2013 04:34	Tara L Snyder	1
07066	Silver	SW-846 6010B	2	131891848002	07/09/2013 18:56	John P Hook	1
07071	Vanadium	SW-846 6010B	2	131891848002	07/09/2013 18:56	John P Hook	1
00259	Mercury	SW-846 7470A	1	131845713003	07/08/2013 08:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131841848005	07/05/2013 09:03	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131891848002	07/09/2013 10:28	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	3	131911848001	07/10/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131845713003	07/05/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)070213 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116358
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:30 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

7SR-- SDG#: PEI70-08MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	55	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.4	0.1	0.5	1
02898	Benzene	71-43-2	5.5	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.2	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.8	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.6	0.1	0.5	1
02898	Bromoform	75-25-2	5.9	0.1	0.5	1
02898	Bromomethane	74-83-9	6.0	0.1	0.5	1
02898	2-Butanone	78-93-3	40	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	5.0	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.2	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.7	0.1	0.5	1
02898	Chloroethane	75-00-3	5.6	0.1	0.5	1
02898	Chloroform	67-66-3	5.6	0.1	0.5	1
02898	Chloromethane	74-87-3	6.0	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.2	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.3	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.5	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.9	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.5	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.4	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.2	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.1	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.2	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	6.0	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.4	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.6	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.9	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.4	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.8	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.6	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.6	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.2	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.6	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.8	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	5.1	0.1	0.5	1
02898	Ethyl ether	60-29-7	5.3	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.4	0.1	0.5	1
02898	Freon 113	76-13-1	6.1	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.5	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.3	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	4.7	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	25	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.7	0.2	0.5	1

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

Sample Description: WS-007(Surface)070213 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116358
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:30 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

7SR-- SDG#: PEI70-08MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.1	0.1	0.5	1
02898	Styrene	100-42-5	5.6	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.6	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.2	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.6	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	26	2.0	5.0	1
02898	Toluene	108-88-3	5.8	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	3.7	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	3.9	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.8	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.5	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.7	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	6.0	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.3	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.2	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.3	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	6.6	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	16	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.0	0.010	0.052	1
08357	Acenaphthylene	208-96-8	1.0	0.010	0.052	1
08357	Anthracene	120-12-7	0.97	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	1.0	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.90	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	1.0	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.88	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.93	0.010	0.052	1
08357	Chrysene	218-01-9	0.95	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.87	0.010	0.052	1
08357	Fluoranthene	206-44-0	1.1	0.010	0.052	1
08357	Fluorene	86-73-7	1.0	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.90	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.010	0.052	1
08357	Naphthalene	91-20-3	1.1	0.031	0.052	1
08357	Phenanthrene	85-01-8	1.0	0.031	0.052	1
08357	Pyrene	129-00-0	1.1	0.010	0.052	1
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	37.9	0.033	0.20	1
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.155	0.0068	0.0200	1
07046	Barium	7440-39-3	2.10	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0497	0.00076	0.0050	1
01750	Calcium	7440-70-2	8.67	0.0334	0.200	1

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

Sample Description: WS-007(Surface)070213 MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116358
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

7SR-- SDG#: PEI70-08MS

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	0.203	0.0016	0.0150	1
07055	Lead	7439-92-1	0.150	0.0047	0.0150	1
01757	Magnesium	7439-95-4	3.94	0.0167	0.100	1
07061	Nickel	7440-02-0	0.515	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.148	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0474	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.518	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0010	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131842AA	07/04/2013 04:59	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/04/2013 04:59	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAE026	07/06/2013 12:15	Joseph M Gambler	1
10470	BNW Water Extraction (SIM)	SW-846 3510C	1	13184WAE026	07/04/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256011	07/11/2013 09:00	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	2	131891848002	07/09/2013 19:08	John P Hook	1
07046	Barium	SW-846 6010B	2	131891848002	07/09/2013 19:08	John P Hook	1
07049	Cadmium	SW-846 6010B	2	131891848002	07/10/2013 04:44	Tara L Snyder	1
01750	Calcium	SW-846 6010B	3	131911848001	07/11/2013 07:05	Joanne M Gates	1
07051	Chromium	SW-846 6010B	2	131891848002	07/09/2013 19:08	John P Hook	1
07055	Lead	SW-846 6010B	2	131891848002	07/10/2013 04:44	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	2	131891848002	07/09/2013 19:08	John P Hook	1
07061	Nickel	SW-846 6010B	2	131891848002	07/10/2013 04:44	Tara L Snyder	1
07036	Selenium	SW-846 6010B	2	131891848002	07/10/2013 04:44	Tara L Snyder	1
07066	Silver	SW-846 6010B	2	131891848002	07/09/2013 19:08	John P Hook	1
07071	Vanadium	SW-846 6010B	2	131891848002	07/09/2013 19:08	John P Hook	1
00259	Mercury	SW-846 7470A	1	131845713003	07/08/2013 08:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131841848005	07/05/2013 09:03	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131891848002	07/09/2013 10:28	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	3	131911848001	07/10/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131845713003	07/05/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)070213 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116359
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:30 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

7SR-- SDG#: PEI70-08MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	42	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.7	0.1	0.5	1
02898	Benzene	71-43-2	5.5	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.2	0.1	0.5	1
02898	Bromochloromethane	74-97-5	6.0	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.5	0.1	0.5	1
02898	Bromoform	75-25-2	5.8	0.1	0.5	1
02898	Bromomethane	74-83-9	6.4	0.1	0.5	1
02898	2-Butanone	78-93-3	35	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.2	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.3	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.3	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.1	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.7	0.1	0.5	1
02898	Chloroethane	75-00-3	5.8	0.1	0.5	1
02898	Chloroform	67-66-3	5.6	0.1	0.5	1
02898	Chloromethane	74-87-3	6.3	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.3	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.4	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.8	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.8	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.4	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.4	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.3	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	5.3	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	6.1	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.4	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.6	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	5.4	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.8	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.8	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.6	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.3	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.6	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.8	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	5.1	0.1	0.5	1
02898	Ethyl ether	60-29-7	5.3	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.3	0.1	0.5	1
02898	Freon 113	76-13-1	6.1	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.9	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.4	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.2	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.8	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	25	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.7	0.2	0.5	1

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

Sample Description: WS-007(Surface)070213 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116359
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:30 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

7SR-- SDG#: PEI70-08MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.2	0.1	0.5	1
02898	Styrene	100-42-5	5.5	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.7	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.3	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.6	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	22	2.0	5.0	1
02898	Toluene	108-88-3	5.5	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.0	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.2	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.7	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.5	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.7	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	6.0	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.3	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.3	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.4	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	6.9	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	0.91	0.010	0.052	1
08357	Acenaphthylene	208-96-8	0.99	0.010	0.052	1
08357	Anthracene	120-12-7	1.0	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	1.2	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.97	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	1.6	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.94	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	1.3	0.010	0.052	1
08357	Chrysene	218-01-9	1.8	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.77	0.010	0.052	1
08357	Fluoranthene	206-44-0	2.5	0.010	0.052	1
08357	Fluorene	86-73-7	0.91	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.98	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.95	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.93	0.010	0.052	1
08357	Naphthalene	91-20-3	0.95	0.031	0.052	1
08357	Phenanthrene	85-01-8	1.3	0.031	0.052	1
08357	Pyrene	129-00-0	2.4	0.010	0.052	1
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	37.5	0.033	0.20	1
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.156	0.0068	0.0200	1
07046	Barium	7440-39-3	2.11	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0504	0.00076	0.0050	1
01750	Calcium	7440-70-2	8.49	0.0334	0.200	1

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

Sample Description: WS-007(Surface)070213 MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116359
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

7SR-- SDG#: PEI70-08MSD

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	0.203	0.0016	0.0150	1
07055	Lead	7439-92-1	0.152	0.0047	0.0150	1
01757	Magnesium	7439-95-4	3.97	0.0167	0.100	1
07061	Nickel	7440-02-0	0.519	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.148	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0487	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.517	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00098	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	C131842AA	07/04/2013 05:21	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/04/2013 05:21	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAE026	07/06/2013 12:44	Joseph M Gambler	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13184WAE026	07/04/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256011	07/11/2013 09:00	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	2	131891848002	07/09/2013 19:12	John P Hook	1
07046	Barium	SW-846 6010B	2	131891848002	07/09/2013 19:12	John P Hook	1
07049	Cadmium	SW-846 6010B	2	131891848002	07/10/2013 04:48	Tara L Snyder	1
01750	Calcium	SW-846 6010B	3	131911848001	07/11/2013 07:09	Joanne M Gates	1
07051	Chromium	SW-846 6010B	2	131891848002	07/09/2013 19:12	John P Hook	1
07055	Lead	SW-846 6010B	2	131891848002	07/10/2013 04:48	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	2	131891848002	07/09/2013 19:12	John P Hook	1
07061	Nickel	SW-846 6010B	2	131891848002	07/10/2013 04:48	Tara L Snyder	1
07036	Selenium	SW-846 6010B	2	131891848002	07/10/2013 04:48	Tara L Snyder	1
07066	Silver	SW-846 6010B	2	131891848002	07/09/2013 19:12	John P Hook	1
07071	Vanadium	SW-846 6010B	2	131891848002	07/09/2013 19:12	John P Hook	1
00259	Mercury	SW-846 7470A	1	131845713003	07/08/2013 08:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131841848005	07/05/2013 09:03	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131891848002	07/09/2013 10:28	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	3	131911848001	07/10/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131845713003	07/05/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)070213 DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116360
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:30 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

7SR-- SDG#: PEI70-08DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	24.0	0.033	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0679	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
07051	Chromium	7440-47-3	0.0038 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0090 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.18	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0047 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	0.0078	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131926256011	07/11/2013 09:00	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	2	131891848002	07/09/2013 19:04	John P Hook	1
07046	Barium	SW-846 6010B	2	131891848002	07/09/2013 19:04	John P Hook	1
07049	Cadmium	SW-846 6010B	2	131891848002	07/10/2013 04:41	Tara L Snyder	1
01750	Calcium	SW-846 6010B	2	131911848001	07/11/2013 07:01	Joanne M Gates	1
07051	Chromium	SW-846 6010B	2	131891848002	07/09/2013 19:04	John P Hook	1
07055	Lead	SW-846 6010B	2	131891848002	07/10/2013 04:41	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	2	131891848002	07/09/2013 19:04	John P Hook	1
07061	Nickel	SW-846 6010B	2	131891848002	07/10/2013 04:41	Tara L Snyder	1
07036	Selenium	SW-846 6010B	2	131891848002	07/10/2013 04:41	Tara L Snyder	1
07066	Silver	SW-846 6010B	2	131891848002	07/09/2013 19:04	John P Hook	1
07071	Vanadium	SW-846 6010B	2	131891848002	07/09/2013 19:04	John P Hook	1
00259	Mercury	SW-846 7470A	1	131845713003	07/08/2013 08:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131841848005	07/05/2013 09:03	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131891848002	07/09/2013 10:28	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	3	131911848001	07/10/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131845713003	07/05/2013 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)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116361
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:40 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

705-- SDG#: PEI70-09

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

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

Sample Description: WS-007(0.5-1.0)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116361
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:40 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

705-- SDG#: PEI70-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.1 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.018 J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.013 J	0.010	0.051	1
08357	Anthracene	120-12-7	0.021 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.031 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.030 J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.079	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.029 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.045 J	0.010	0.051	1
08357	Chrysene	218-01-9	0.064	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.012 J	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.089	0.010	0.051	1
08357	Fluorene	86-73-7	0.016 J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.028 J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.018 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.020 J	0.010	0.051	1
08357	Naphthalene	91-20-3	0.083	0.030	0.051	1
08357	Phenanthrene	85-01-8	0.033 J	0.030	0.051	1
08357	Pyrene	129-00-0	0.091	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	19.2	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	0.0397	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	4.50	0.0334	0.200	1

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

Sample Description: WS-007(0.5-1.0)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116361
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 11:40 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

705-- SDG#: PEI70-09

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	0.0018 J	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	1.94	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0026 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	0.0039 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	C131842AA	07/04/2013 03:31	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/04/2013 03:31	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAE026	07/07/2013 14:52	Joseph M Gambler	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13184WAE026	07/04/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256011	07/11/2013 09:00	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	2	131891848002	07/09/2013 19:56	John P Hook	1
07046	Barium	SW-846 6010B	2	131891848002	07/09/2013 19:56	John P Hook	1
07049	Cadmium	SW-846 6010B	2	131891848002	07/10/2013 05:28	Tara L Snyder	1
01750	Calcium	SW-846 6010B	2	131911848001	07/11/2013 07:51	Joanne M Gates	1
07051	Chromium	SW-846 6010B	2	131891848002	07/09/2013 19:56	John P Hook	1
07055	Lead	SW-846 6010B	2	131891848002	07/10/2013 05:28	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	2	131891848002	07/09/2013 19:56	John P Hook	1
07061	Nickel	SW-846 6010B	2	131891848002	07/10/2013 05:28	Tara L Snyder	1
07036	Selenium	SW-846 6010B	2	131891848002	07/10/2013 05:28	Tara L Snyder	1
07066	Silver	SW-846 6010B	2	131891848002	07/09/2013 19:56	John P Hook	1
07071	Vanadium	SW-846 6010B	2	131891848002	07/09/2013 19:56	John P Hook	1
00259	Mercury	SW-846 7470A	1	131845713003	07/08/2013 08:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131841848005	07/05/2013 09:03	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131891848002	07/09/2013 10:28	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	3	131911848001	07/10/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131845713003	07/05/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-006(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116362
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 12:00 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

6SR-- SDG#: PEI70-10

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

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

Sample Description: WS-006(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116362
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 12:00 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

6SR-- SDG#: PEI70-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.012 J	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	0.031 J	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	0.015 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	23.4	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0276	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.26	0.0334	0.200	1

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

Sample Description: WS-006(Surface)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116362
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 12:00 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

6SR-- SDG#: PEI70-10

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	2.50	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	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	C131842AA	07/04/2013 03:53	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/04/2013 03:53	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAE026	07/07/2013 15:22	Joseph M Gambler	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13184WAE026	07/04/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256011	07/11/2013 09:00	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	2	131891848002	07/09/2013 20:00	John P Hook	1
07046	Barium	SW-846 6010B	2	131891848002	07/09/2013 20:00	John P Hook	1
07049	Cadmium	SW-846 6010B	2	131891848002	07/10/2013 05:32	Tara L Snyder	1
01750	Calcium	SW-846 6010B	3	131911848001	07/11/2013 07:54	Joanne M Gates	1
07051	Chromium	SW-846 6010B	2	131891848002	07/09/2013 20:00	John P Hook	1
07055	Lead	SW-846 6010B	2	131891848002	07/10/2013 05:32	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	2	131891848002	07/09/2013 20:00	John P Hook	1
07061	Nickel	SW-846 6010B	2	131891848002	07/10/2013 05:32	Tara L Snyder	1
07036	Selenium	SW-846 6010B	2	131891848002	07/10/2013 05:32	Tara L Snyder	1
07066	Silver	SW-846 6010B	2	131891848002	07/09/2013 20:00	John P Hook	1
07071	Vanadium	SW-846 6010B	2	131891848002	07/09/2013 20:00	John P Hook	1
00259	Mercury	SW-846 7470A	1	131845713003	07/08/2013 08:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131841848005	07/05/2013 09:03	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131891848002	07/09/2013 10:28	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	3	131911848001	07/10/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131845713003	07/05/2013 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)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116363
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 12:10 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

605-- SDG#: PEI70-11

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

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

Sample Description: WS-006(0.5-1.0)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116363
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 12:10 by TM

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

605-- SDG#: PEI70-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	0.021 J	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	23.5	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0308	0.00033	0.0050	1

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

Sample Description: WS-006(0.5-1.0)070213 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116363
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013 12:10 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 07/03/2013 09:25

PO Box 4416

Reported: 07/11/2013 10:12

Houston TX 77210-4416

605-- SDG#: PEI70-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.32	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.48	0.0167	0.100	1
07061	Nickel	7440-02-0	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	C131842AA	07/04/2013 04:15	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/04/2013 04:15	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13184WAE026	07/07/2013 15:51	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13184WAE026	07/04/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256011	07/11/2013 09:00	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	2	131891848002	07/09/2013 20:04	John P Hook	1
07046	Barium	SW-846 6010B	2	131891848002	07/09/2013 20:04	John P Hook	1
07049	Cadmium	SW-846 6010B	2	131891848002	07/10/2013 05:35	Tara L Snyder	1
01750	Calcium	SW-846 6010B	3	131911848001	07/11/2013 07:58	Joanne M Gates	1
07051	Chromium	SW-846 6010B	2	131891848002	07/09/2013 20:04	John P Hook	1
07055	Lead	SW-846 6010B	2	131891848002	07/10/2013 05:35	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	2	131891848002	07/09/2013 20:04	John P Hook	1
07061	Nickel	SW-846 6010B	2	131891848002	07/10/2013 05:35	Tara L Snyder	1
07036	Selenium	SW-846 6010B	2	131891848002	07/10/2013 05:35	Tara L Snyder	1
07066	Silver	SW-846 6010B	2	131891848002	07/09/2013 20:04	John P Hook	1
07071	Vanadium	SW-846 6010B	2	131891848002	07/09/2013 20:04	John P Hook	1
00259	Mercury	SW-846 7470A	1	131845713003	07/08/2013 08:47	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131841848005	07/05/2013 09:03	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131891848002	07/09/2013 10:28	James L Mertz	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	3	131911848001	07/10/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131845713003	07/05/2013 17:00	Nelli S Markaryan	1

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

Sample Description: WS-TB-88-070213 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116364
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

TB88- SDG#: PEI70-12TB*

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

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

Sample Description: WS-TB-88-070213 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7116364
LL Group # 1401544
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/02/2013

ExxonMobil

Submitted: 07/03/2013 09:25

Mobil Pipeline Company

Reported: 07/11/2013 10:12

PO Box 4416

Houston TX 77210-4416

TB88- SDG#: PEI70-12TB*

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131842AA	07/03/2013 22:44	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131842AA	07/03/2013 22:44	Kevin A Sposito	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/11/13 at 10:12 AM

Group Number: 1401544

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

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: C131842AA	Sample number(s): 7116350-7116359,7116361-7116364								
Acetone	N.D.	3.0	5.0	ug/l	104		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	85		61-130		
Benzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	115		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	108		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	119		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	116		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	101		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	112		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	109		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	104		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	107		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	113		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	102		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	106		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	104		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	115		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	111		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	108		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	110		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	102		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	112		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	106		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	123		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	108		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	104		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	103		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	106		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	97		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	102		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	105		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	109		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	95		61-125		

*- 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: 1401544

Reported: 07/11/13 at 10:12 AM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Isopropylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	99		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	96		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	102		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	107		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Styrene	N.D.	0.1	0.5	ug/l	108		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	111		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	104		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	101		65-131		
Toluene	N.D.	0.1	0.5	ug/l	104		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	77		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	83		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	104		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	110		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	105		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	107		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	118		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	105		80-120		

Batch number: 13184WAE026

Sample number(s): 7116350-7116355, 7116357-7116359, 7116361-7116363

Acenaphthene	N.D.	0.010	0.050	ug/l	103		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	97		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	96		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	90		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	94		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	91		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	105		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	113		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	108		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	91		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	100		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	101		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	96		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	108		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	104		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	105		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	104		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	102		71-116		

Batch number: 13190WAA026

Sample number(s): 7116356

Acenaphthene	N.D.	0.010	0.050	ug/l	104		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	84		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	90		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	101		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	95		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	113		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	101		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	109		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	98		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	106		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	107		73-116		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1401544

Reported: 07/11/13 at 10:12 AM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Fluorene	N.D.	0.010	0.050	ug/l	95		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	105		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	104		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	102		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	98		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	96		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	95		71-116		

Batch number: 131845713003

Sample number(s): 7116350-7116363

Mercury	N.D.	0.00006	0.00020	mg/l	99		80-120		
		0							

Batch number: 131891848002

Sample number(s): 7116350-7116363

Arsenic	N.D.	0.0068	0.0200	mg/l	99		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	103		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	101		90-112		
Chromium	N.D.	0.0016	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	99		88-110		
Magnesium	0.0500 J	0.0167	0.100	mg/l	101		90-110		
Nickel	N.D.	0.0015	0.0100	mg/l	104		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	100		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	97		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	103		90-110		

Batch number: 131911848001

Sample number(s): 7116350-7116363

Calcium	0.0659 J	0.0334	0.200	mg/l	103		90-110		
---------	----------	--------	-------	------	-----	--	--------	--	--

Sample Matrix Quality Control

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

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: C131842AA Sample number(s): 7116350-7116359,7116361-7116364 UNSPK: 7116357									
Acetone	130	94	57-163	28	30				
Allyl Chloride	88	93	67-139	6	30				
Benzene	109	109	87-126	0	30				
Bromobenzene	104	103	80-123	1	30				
Bromochloromethane	116	120	82-125	3	30				
Bromodichloromethane	112	111	82-133	1	30				
Bromoform	118	116	60-138	2	30				
Bromomethane	121	129	41-145	6	30				
2-Butanone	106	93	63-146	13	30				
n-Butylbenzene	100	103	83-131	3	30				
sec-Butylbenzene	102	105	84-128	3	30				
tert-Butylbenzene	100	107	84-135	6	30				
Carbon Tetrachloride	124	122	81-148	2	30				
Chlorobenzene	113	113	78-133	0	30				
Chloroethane	113	117	70-139	3	30				
Chloroform	112	113	86-136	0	30				
Chloromethane	121	126	55-152	4	30				
2-Chlorotoluene	103	105	81-120	2	30				

*- Outside of specification

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

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

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

Quality Control SummaryClient Name: ExxonMobil
Reported: 07/11/13 at 10:12 AM

Group Number: 1401544

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
4-Chlorotoluene	106	108	82-119	2	30				
1,2-Dibromo-3-chloropropane	111	97	43-143	14	30				
Dibromochloromethane	117	116	79-125	1	30				
1,2-Dibromoethane	110	108	84-127	1	30				
Dibromomethane	108	108	83-126	0	30				
1,2-Dichlorobenzene	105	105	83-117	1	30				
1,3-Dichlorobenzene	103	105	81-118	2	30				
1,4-Dichlorobenzene	105	106	79-120	1	30				
Dichlorodifluoromethane	120	122	28-136	2	30				
1,1-Dichloroethane	107	107	88-136	0	30				
1,2-Dichloroethane	112	112	82-135	0	30				
1,1-Dichloroethene	118	117	83-150	1	30				
cis-1,2-Dichloroethene	109	109	82-129	0	30				
trans-1,2-Dichloroethene	116	116	88-127	1	30				
Dichlorofluoromethane	132	135	59-176	2	30				
1,2-Dichloropropane	112	112	91-126	0	30				
1,3-Dichloropropane	104	105	80-127	1	30				
2,2-Dichloropropane	113	112	80-134	1	30				
1,1-Dichloropropene	115	116	86-139	1	30				
cis-1,3-Dichloropropene	97	99	74-132	2	30				
trans-1,3-Dichloropropene	101	102	71-128	1	30				
Ethyl ether	106	105	67-127	0	30				
Ethylbenzene	107	107	80-140	1	30				
Freon 113	121	121	87-158	0	30				
Hexachlorobutadiene	90	98	65-128	8	30				
Isopropylbenzene	106	108	81-133	1	30				
p-Isopropyltoluene	101	104	84-124	3	30				
Methyl Tertiary Butyl Ether	94	95	82-132	1	30				
4-Methyl-2-Pentanone	100	101	69-149	1	30				
Methylene Chloride	114	113	84-122	0	30				
n-Propylbenzene	103	104	79-131	2	30				
Styrene	111	110	63-151	1	30				
1,1,1,2-Tetrachloroethane	112	113	87-126	1	30				
1,1,2,2-Tetrachloroethane	103	106	75-131	2	30				
Tetrachloroethene	112	112	75-129	1	30				
Tetrahydrofuran	104	90	56-154	14	30				
Toluene	76*	71*	83-127	5	30				
1,2,3-Trichlorobenzene	73	80	73-125	9	30				
1,2,4-Trichlorobenzene	79	83	77-120	5	30				
1,1,1-Trichloroethane	116	115	85-140	1	30				
1,1,2-Trichloroethane	109	111	85-129	1	30				
Trichloroethene	114	113	85-131	1	30				
Trichlorofluoromethane	120	119	67-161	1	30				
1,2,3-Trichloropropane	107	106	76-120	0	30				
1,2,4-Trimethylbenzene	103	106	87-126	2	30				
1,3,5-Trimethylbenzene	106	107	89-129	1	30				
Vinyl Chloride	132	137	65-151	4	30				
Xylene (Total)	109	109	81-137	0	30				

Batch number: 13184WAE026

Sample number(s): 7116350-7116355,7116357-7116359,7116361-7116363 UNSPK: 7116357

Acenaphthene
Acenaphthylene99 88 59-127 11 30
97 94 33-146 2 30

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1401544

Reported: 07/11/13 at 10:12 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	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Anthracene	92	99	69-119	8	30				
Benzo(a)anthracene	91	106	67-124	14	30				
Benzo(a)pyrene	82	88	64-123	8	30				
Benzo(b)fluoranthene	90	151*	61-133	48*	30				
Benzo(g,h,i)perylene	82	88	36-138	6	30				
Benzo(k)fluoranthene	85	118	59-128	31*	30				
Chrysene	85	169*	62-118	63*	30				
Dibenz(a,h)anthracene	83	73	32-141	13	30				
Fluoranthene	93	233*	65-123	80*	30				
Fluorene	96	87	69-124	10	30				
Indeno(1,2,3-cd)pyrene	84	91	29-143	9	30				
1-Methylnaphthalene	104	90	67-117	14	30				
2-Methylnaphthalene	102	88	71-126	14	30				
Naphthalene	97	78	58-131	18	30				
Phenanthrene	96	116	67-117	19	30				
Pyrene	101	219*	59-125	70*	30				
Batch number: 13190WAA026 Sample number(s): 7116356 UNSPK: P119864									
Acenaphthene	96	106	59-127	9	30				
Acenaphthylene	94	96	33-146	1	30				
Anthracene	97	101	69-119	3	30				
Benzo(a)anthracene	97	100	67-124	1	30				
Benzo(a)pyrene	83	86	64-123	2	30				
Benzo(b)fluoranthene	85	90	61-133	4	30				
Benzo(g,h,i)perylene	85	87	36-138	1	30				
Benzo(k)fluoranthene	92	95	59-128	1	30				
Chrysene	86	87	62-118	0	30				
Dibenz(a,h)anthracene	93	92	32-141	3	30				
Fluoranthene	83	89	65-123	5	30				
Fluorene	96	96	69-124	1	30				
Indeno(1,2,3-cd)pyrene	91	94	29-143	1	30				
1-Methylnaphthalene	107	107	67-117	1	30				
2-Methylnaphthalene	105	105	71-126	2	30				
Naphthalene	100	99	58-131	3	30				
Phenanthrene	106	112	67-117	4	30				
Pyrene	94	92	59-125	3	30				
Batch number: 131845713003 Sample number(s): 7116350-7116363 UNSPK: 7116357 BKG: 7116357									
Mercury	102	98	80-120	3	20	N.D.	N.D.	0 (1)	20
Batch number: 131891848002 Sample number(s): 7116350-7116363 UNSPK: 7116357 BKG: 7116357									
Arsenic	99	99	81-123	0	20	0.0073 J	N.D.	200* (1)	20
Barium	102	102	78-118	0	20	0.0700	0.0679	3	20
Cadmium	99	101	83-116	1	20	N.D.	N.D.	0 (1)	20
Chromium	99	99	81-120	0	20	0.0046 J	0.0038 J	20 (1)	20
Lead	94	95	75-125	1	20	0.0085 J	0.0090 J	6 (1)	20
Magnesium	85	86	75-125	1	20	2.24	2.18	3	20
Nickel	101	102	86-115	1	20	0.0100	0.0047 J	72* (1)	20
Selenium	99	99	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	95	97	75-125	3	20	N.D.	N.D.	0 (1)	20
Vanadium	102	102	90-111	0	20	0.0089	0.0078	13 (1)	20

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1401544

Reported: 07/11/13 at 10:12 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
Batch number: 131911848001	Sample number(s): 7116350-7116363 UNSPK: 7116357 BKG: 7116357								
Calcium	60*	56*	81-118	2	20	6.25	6.02	4	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: C131842AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7116350	111	107	98	94
7116351	112	104	98	93
7116352	111	106	99	94
7116353	110	107	98	95
7116354	111	105	99	94
7116355	112	107	98	95
7116356	112	106	96	93
7116357	111	105	95	92
7116358	106	106	102	101
7116359	106	104	101	100
7116361	112	105	98	93
7116362	113	106	99	95
7116363	111	108	98	94
7116364	111	105	99	95
Blank	110	106	98	94
LCS	106	104	102	101
MS	106	106	102	101
MSD	106	104	101	100
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM

Batch number: 13184WAE026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7116350	94	63	101
7116351	92	58*	97
7116352	82	52*	95
7116353	85	57*	90
7116354	176*	112	195*
7116355	96	91	96
7116357	82	75	94
7116358	81	89	98
7116359	65	68	85
7116361	82	71	92
7116362	95	70	102

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/11/13 at 10:12 AM

Group Number: 1401544

Surrogate Quality Control

7116363	90	60*	96
Blank	87	82	98
LCS	89	85	102
MS	81	89	98
MSD	65	68	85
Limits:	64-120	62-141	58-134

Analysis Name: PAHs in waters by SIM
Batch number: 13190WAA026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7116356	76	57*	83
Blank	100	98	96
LCS	99	97	99
MS	78	89	103
MSD	85	92	103
Limits:	64-120	62-141	58-134

*- Outside of specification

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

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

Acct. # 14739

For Eurofins Lancaster Laboratories use only

For Eurofins Lancaster Laboratories use only
Group # 1401544 Sample # 7116350-64

pg. 2 of 2

Instructions on reverse side correspond with circled numbers

Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

Issued by Dept. 40 Management

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

7053 0413

Environmental Sample Administration
Receipt Documentation Log

Client/Project:

Exxon mob. 1

Shipping Container Sealed:

YES

NO

Date of Receipt:

7.3.13

Custody Seal Present * :

YES

NO

Time of Receipt:

925

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

Source Code:

50-1

Package:

Chilled

Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	D4121	0.9	TB	WI	X	B	
2	↓	0.8	↓	↓	↓	↓	
3	↓	1.7	↓	↓	↓	↓	
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

1401529 Rec 1 Amber broken for wa-ft-wc-071
1401529 Rec 1 vial broken for " "
1401529 Rec 1 lid cracked on Reactivity Jar for
wa-ft-wc-071 - still intact
cooler #2 very little bubble wrap, samples
were all over cooler (had broken samples)

Unpacker Signature/Emp#:

Branchy Barclay 2249

Date/Time:

7.3.13 1058

6-1401544

Environmental Sample Administration
Receipt Documentation Log
(continuation page)

Client/Project: Exxon mobil

Date of Receipt: 7.3.13

Unpacker Emp. No.: 2299

Additional Paperwork Discrepancy/Unpacking Problems:

1401529 Rec 2 TB broken for WA-Ft-WC-TB

Explanation of Symbols and Abbreviations

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

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

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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

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