ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

April 13, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 04/12/2013
Group Number: 1382445
SDG: PEG19
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LLI) #
WS-003(SURFACE)041113 Grab Surface Water	7020037
WS-002(SURFACE)041113 Grab Surface Water	7020038
WS-BKG-001(SURFACE)041113 Grab Surface Water	7020039
WS-005(SURFACE)041113 Grab Surface Water	7020040
WS-001(SURFACE)041113 Grab Surface Water	7020041
WS-001(0.5-1.0)041113 Grab Surface Water	7020042
WS-004(SURFACE)041113 Grab Surface Water	7020043
WS-004(0.5-1.0)041113 Grab Surface Water	7020044
WS-007(SURFACE)041113 Grab Surface Water	7020045
WS-007(0.5-1.0)041113 Grab Surface Water	7020046
WS-006(SURFACE)041113 Grab Surface Water	7020047
WS-006(0.5-1.0)041113 Grab Surface Water	7020048
WS-008(SURFACE)041113 Grab Surface Water	7020049
WS-DUP4-041113 Grab Surface Water	7020050
WS-TB-07-041113 Water	7020051

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: Scott Bushroe
ELECTRONIC COPY TO	ExxonMobil Pipeline Company	Attn: Timothy S. Martin

ELECTRONIC COPY TO ExxonMobil Attn: Michael J Firth

Respectfully Submitted,

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1382445

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

Analysis Specific Comments:

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13102WAE026 (Sample number(s): 7020037-7020050)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7020043, 7020044, 7020045, 7020046, 7020049

Sample #s: 7020043, 7020044, 7020045, 7020046, 7020049

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 #: 131021848001 (Sample number(s): 7020037-7020050 UNSPK: 7020043 BKG: 7020043)

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

EPA 1664A, Wet Chemistry

Batch #: 13102807901A (Sample number(s): 7020037-7020050 UNSPK: P15443)

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

Sample Description: WS-003(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020037
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 09:05 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

03-SR SDG#: PEG19-01

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

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

Sample Description: WS-003(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020037
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 09:05 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

03-SR SDG#: PEG19-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	14.3	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0221	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00040 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.13	0.0640	0.200	1

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

Sample Description: WS-003(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020037
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 09:05 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

03-SR SDG#: PEG19-01

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.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.59	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 15:53	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 15:53	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13102WAE026	04/13/2013 04:10	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13102WAE026	04/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131036256001	04/13/2013 06:46	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131021848001	04/13/2013 03:42	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131021848001	04/13/2013 03:42	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131021848001	04/13/2013 03:42	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131021848001	04/13/2013 03:42	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131021848001	04/13/2013 03:42	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131021848001	04/13/2013 03:42	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131021848001	04/13/2013 03:42	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131021848001	04/13/2013 03:42	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131021848001	04/13/2013 03:42	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131021848001	04/13/2013 03:42	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131021848001	04/13/2013 03:42	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131025713001	04/13/2013 08:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131021848001	04/12/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131025713001	04/12/2013 16:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13102807901A	04/12/2013 17:24	Michelle L Lalli	1

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

Sample Description: WS-002(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020038
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 10:20 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

02-SR SDG#: PEG19-02

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

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

Sample Description: WS-002(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020038
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 10:20 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

02-SR SDG#: PEG19-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.054	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.054	1
08357	Anthracene	120-12-7	N.D.	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.054	1
08357	Chrysene	218-01-9	N.D.	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.054	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.054	1
08357	Fluorene	86-73-7	N.D.	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.054	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.054	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.054	1
08357	Pyrene	129-00-0	N.D.	0.011	0.054	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	12.6	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0175	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00043 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	2.71	0.0640	0.200	1

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

Sample Description: WS-002(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020038
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 10:20 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

02-SR SDG#: PEG19-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.41	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 16:58	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 16:58	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13102WAE026	04/13/2013 04:38	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13102WAE026	04/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131036256001	04/13/2013 06:46	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131021848001	04/13/2013 02:32	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131021848001	04/13/2013 02:32	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131021848001	04/13/2013 02:32	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131021848001	04/13/2013 02:32	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131021848001	04/13/2013 02:32	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131021848001	04/13/2013 02:32	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131021848001	04/13/2013 02:32	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131021848001	04/13/2013 02:32	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131021848001	04/13/2013 02:32	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131021848001	04/13/2013 02:32	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131021848001	04/13/2013 02:32	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131025713001	04/13/2013 07:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131021848001	04/12/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131025713001	04/12/2013 16:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13102807901A	04/12/2013 17:24	Michelle L Lalli	1

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

Sample Description: WS-BKG-001(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020039
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 10:55 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

BK1SR SDG#: PEG19-03

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

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

Sample Description: WS-BKG-001(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020039
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 10:55 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

BK1SR SDG#: PEG19-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	23.1	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0301	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00053 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.07	0.0640	0.200	1

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

Sample Description: WS-BKG-001(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020039
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 10:55 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

BK1SR SDG#: PEG19-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0012 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.93	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0015 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0016 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 17:20	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 17:20	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13102WAE026	04/13/2013 05:05	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13102WAE026	04/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131036256001	04/13/2013 06:46	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131021848001	04/13/2013 02:45	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131021848001	04/13/2013 02:45	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131021848001	04/13/2013 02:45	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131021848001	04/13/2013 02:45	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131021848001	04/13/2013 02:45	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131021848001	04/13/2013 02:45	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131021848001	04/13/2013 02:45	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131021848001	04/13/2013 02:45	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131021848001	04/13/2013 02:45	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131021848001	04/13/2013 02:45	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131021848001	04/13/2013 02:45	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131025713001	04/13/2013 07:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131021848001	04/12/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131025713001	04/12/2013 16:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13102807901A	04/12/2013 17:24	Michelle L Lalli	1

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

Sample Description: WS-005(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020040
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 12:35 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

05SR- SDG#: PEG19-04

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

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

Sample Description: WS-005(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020040
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 12:35 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

05SR- SDG#: PEG19-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.055	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	N.D.	0.011	0.055	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.6	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0214	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00045 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.50	0.0640	0.200	1

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

Sample Description: WS-005(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020040
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 12:35 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

05SR- SDG#: PEG19-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.67	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 17:41	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 17:41	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13102WAE026	04/13/2013 05:33	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13102WAE026	04/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131036256001	04/13/2013 06:46	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131021848001	04/13/2013 02:49	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131021848001	04/13/2013 02:49	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131021848001	04/13/2013 02:49	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131021848001	04/13/2013 02:49	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131021848001	04/13/2013 02:49	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131021848001	04/13/2013 02:49	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131021848001	04/13/2013 02:49	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131021848001	04/13/2013 02:49	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131021848001	04/13/2013 02:49	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131021848001	04/13/2013 02:49	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131021848001	04/13/2013 02:49	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131025713001	04/13/2013 07:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131021848001	04/12/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131025713001	04/12/2013 16:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13102807901A	04/12/2013 17:24	Michelle L Lalli	1

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

Sample Description: WS-001(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020041
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 13:15 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

04-SR SDG#: PEG19-05

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

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

Sample Description: WS-001(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020041
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 13:15 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

04-SR SDG#: PEG19-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	14.7	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0222	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.28	0.0640	0.200	1

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

Sample Description: WS-001(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020041
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 13:15 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

04-SR SDG#: PEG19-05

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.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.58	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 18:03	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 18:03	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13102WAE026	04/13/2013 06:00	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13102WAE026	04/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131036256001	04/13/2013 06:46	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131021848001	04/13/2013 02:54	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131021848001	04/13/2013 02:54	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131021848001	04/13/2013 02:54	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131021848001	04/13/2013 02:54	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131021848001	04/13/2013 02:54	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131021848001	04/13/2013 02:54	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131021848001	04/13/2013 02:54	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131021848001	04/13/2013 02:54	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131021848001	04/13/2013 02:54	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131021848001	04/13/2013 02:54	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131021848001	04/13/2013 02:54	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131025713001	04/13/2013 07:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131021848001	04/12/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131025713001	04/12/2013 16:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13102807901A	04/12/2013 17:24	Michelle L Lalli	1

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

Sample Description: WS-001(0.5-1.0)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020042
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 13:20 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

01051 SDG#: PEG19-06

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

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

Sample Description: WS-001(0.5-1.0)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020042
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 13:20 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

01051 SDG#: PEG19-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.055	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	N.D.	0.011	0.055	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	14.5	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0242	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00049 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.27	0.0640	0.200	1

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

Sample Description: WS-001(0.5-1.0)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020042
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 13:20 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

01051 SDG#: PEG19-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.55	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0013 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0017 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 18:25	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 18:25	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13102WAE026	04/13/2013 06:28	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13102WAE026	04/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131036256001	04/13/2013 06:46	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131021848001	04/13/2013 02:58	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131021848001	04/13/2013 02:58	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131021848001	04/13/2013 02:58	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131021848001	04/13/2013 02:58	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131021848001	04/13/2013 02:58	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131021848001	04/13/2013 02:58	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131021848001	04/13/2013 02:58	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131021848001	04/13/2013 02:58	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131021848001	04/13/2013 02:58	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131021848001	04/13/2013 02:58	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131021848001	04/13/2013 02:58	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131025713001	04/13/2013 07:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131021848001	04/12/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131025713001	04/12/2013 16:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13102807901A	04/12/2013 17:24	Michelle L Lalli	1

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

Sample Description: WS-004(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020043
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 13:50 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

-4-SR SDG#: PEG19-07

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	Acetone	67-64-1	3.2	J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	0.4	J	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.		1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.		0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.		0.1	0.5	1
02898	Chloroform	67-66-3	N.D.		0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.		0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.		0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	2.3		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.		0.1	0.5	1
02898	Isopropylbenzene	98-82-8	0.1	J	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	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)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020043
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 13:50 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

-4-SR SDG#: PEG19-07

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	0.3	J	0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	4.1		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	2.1		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.9		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	17		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.		0.011	0.053	1
08357	Anthracene	120-12-7	N.D.		0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.011	0.053	1
08357	Chrysene	218-01-9	N.D.		0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.		0.011	0.053	1
08357	Fluorene	86-73-7	N.D.		0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	0.017	J	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.017	J	0.011	0.053	1
08357	Naphthalene	91-20-3	0.034	J	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.		0.032	0.053	1
08357	Pyrene	129-00-0	N.D.		0.011	0.053	1
	The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	21.9		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.		0.0068	0.0200	1
07046	Barium	7440-39-3	0.0805		0.00033	0.0050	1

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

Sample Description: WS-004(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020043
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 13:50 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

-4-SR SDG#: PEG19-07

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	0.00071 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.50	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0084 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0086 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.60	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0068 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0137	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 18:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 18:47	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13102WAE026	04/13/2013 06:55	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13102WAE026	04/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131036256001	04/13/2013 06:46	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131021848001	04/13/2013 02:01	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131021848001	04/13/2013 02:01	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131021848001	04/13/2013 02:01	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131021848001	04/13/2013 02:01	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131021848001	04/13/2013 02:01	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131021848001	04/13/2013 02:01	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131021848001	04/13/2013 02:01	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131021848001	04/13/2013 02:01	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131021848001	04/13/2013 02:01	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131021848001	04/13/2013 02:01	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131021848001	04/13/2013 02:01	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131025713001	04/13/2013 08:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131021848001	04/12/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131025713001	04/12/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-004(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020043
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 13:50 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

-4-SR SDG#: PEG19-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13102807901A	04/12/2013 17:24	Michelle L Lalli	1

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

Sample Description: WS-004(0.5-1.0)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020044
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 13:55 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

4-05- SDG#: PEG19-08

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	N.D.		3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	0.5		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	2.8		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.		0.1	0.5	1
02898	Isopropylbenzene	98-82-8	0.1	J	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	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)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020044
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 13:55 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

4-05- SDG#: PEG19-08

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	0.3	J	0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	5.1		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	2.6		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	1.0		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	20		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.012	0.058	1
08357	Acenaphthylene	208-96-8	N.D.		0.012	0.058	1
08357	Anthracene	120-12-7	N.D.		0.012	0.058	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.012	0.058	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.012	0.058	1
08357	Benzo(b)fluoranthene	205-99-2	0.014	J	0.012	0.058	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.012	0.058	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.012	0.058	1
08357	Chrysene	218-01-9	0.021	J	0.012	0.058	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.012	0.058	1
08357	Fluoranthene	206-44-0	0.016	J	0.012	0.058	1
08357	Fluorene	86-73-7	0.015	J	0.012	0.058	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.012	0.058	1
08357	1-Methylnaphthalene	90-12-0	0.035	J	0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	0.038	J	0.012	0.058	1
08357	Naphthalene	91-20-3	0.065		0.035	0.058	1
08357	Phenanthrene	85-01-8	N.D.		0.035	0.058	1
08357	Pyrene	129-00-0	0.019	J	0.012	0.058	1

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

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	23.0		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.		0.0068	0.0200	1
07046	Barium	7440-39-3	0.0801		0.00033	0.0050	1

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

Sample Description: WS-004(0.5-1.0)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020044
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 13:55 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

4-05- SDG#: PEG19-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07049	Cadmium	7440-43-9	0.00069 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.72	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0091 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0085 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.71	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0075 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0136	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 19:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 19:08	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13102WAE026	04/13/2013 07:23	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13102WAE026	04/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131036256001	04/13/2013 06:46	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131021848001	04/13/2013 03:02	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131021848001	04/13/2013 03:02	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131021848001	04/13/2013 03:02	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131021848001	04/13/2013 03:02	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131021848001	04/13/2013 03:02	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131021848001	04/13/2013 03:02	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131021848001	04/13/2013 03:02	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131021848001	04/13/2013 03:02	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131021848001	04/13/2013 03:02	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131021848001	04/13/2013 03:02	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131021848001	04/13/2013 03:02	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131025713001	04/13/2013 08:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131021848001	04/12/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131025713001	04/12/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020044
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 13:55 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

4-05- SDG#: PEG19-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13102807901A	04/12/2013 17:24	Michelle L Lalli	1

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

Sample Description: WS-007(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020045
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 14:25 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

7-SR- SDG#: PEG19-09

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	3.6	J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	N.D.		0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.		1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.		0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.		0.1	0.5	1
02898	Chloroform	67-66-3	N.D.		0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.		0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.		0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.		0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.		0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.		0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.		0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1

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

Sample Description: WS-007(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020045
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 14:25 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

7-SR- SDG#: PEG19-09

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	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	0.1	J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.4	J	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.012	0.058	1
08357	Acenaphthylene	208-96-8	N.D.		0.012	0.058	1
08357	Anthracene	120-12-7	N.D.		0.012	0.058	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.012	0.058	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.012	0.058	1
08357	Benzo(b)fluoranthene	205-99-2	0.015	J	0.012	0.058	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.012	0.058	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.012	0.058	1
08357	Chrysene	218-01-9	0.020	J	0.012	0.058	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.012	0.058	1
08357	Fluoranthene	206-44-0	0.029	J	0.012	0.058	1
08357	Fluorene	86-73-7	N.D.		0.012	0.058	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.012	0.058	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.012	0.058	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.012	0.058	1
08357	Naphthalene	91-20-3	N.D.		0.035	0.058	1
08357	Phenanthrene	85-01-8	N.D.		0.035	0.058	1
08357	Pyrene	129-00-0	0.025	J	0.012	0.058	1

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

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	21.9		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.		0.0068	0.0200	1
07046	Barium	7440-39-3	0.0800		0.00033	0.0050	1

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

Sample Description: WS-007(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020045
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 14:25 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

7-SR- SDG#: PEG19-09

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**	
07049	Cadmium	7440-43-9	0.00065 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.50	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0082 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0096 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.60	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0062 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0135	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 19:30	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 19:30	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13102WAE026	04/13/2013 07:50	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13102WAE026	04/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131036256001	04/13/2013 06:46	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131021848001	04/13/2013 03:07	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131021848001	04/13/2013 03:07	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131021848001	04/13/2013 03:07	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131021848001	04/13/2013 03:07	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131021848001	04/13/2013 03:07	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131021848001	04/13/2013 03:07	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131021848001	04/13/2013 03:07	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131021848001	04/13/2013 03:07	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131021848001	04/13/2013 03:07	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131021848001	04/13/2013 03:07	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131021848001	04/13/2013 03:07	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131025713001	04/13/2013 08:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131021848001	04/12/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131025713001	04/12/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-007(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020045
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 14:25 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

7-SR- SDG#: PEG19-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13102807901A	04/12/2013 17:24	Michelle L Lalli	1

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

Sample Description: WS-007(0.5-1.0)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020046
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 14:30 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

7-051 SDG#: PEG19-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	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)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020046
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 14:30 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

7-051 SDG#: PEG19-10

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	N.D.		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.2	J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.7		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.011	0.057	1
08357	Acenaphthylene	208-96-8	N.D.		0.011	0.057	1
08357	Anthracene	120-12-7	0.012	J	0.011	0.057	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.011	0.057	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.011	0.057	1
08357	Benzo(b)fluoranthene	205-99-2	0.027	J	0.011	0.057	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.011	0.057	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.011	0.057	1
08357	Chrysene	218-01-9	0.034	J	0.011	0.057	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	0.057	1
08357	Fluoranthene	206-44-0	0.12		0.011	0.057	1
08357	Fluorene	86-73-7	N.D.		0.011	0.057	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.011	0.057	1
08357	1-Methylnaphthalene	90-12-0	N.D.		0.011	0.057	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.011	0.057	1
08357	Naphthalene	91-20-3	N.D.		0.034	0.057	1
08357	Phenanthrene	85-01-8	N.D.		0.034	0.057	1
08357	Pyrene	129-00-0	0.065		0.011	0.057	1
	The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	20.4		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.		0.0068	0.0200	1
07046	Barium	7440-39-3	0.0787		0.00033	0.0050	1

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

Sample Description: WS-007(0.5-1.0)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020046
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 14:30 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

7-051 SDG#: PEG19-10

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**	
07049	Cadmium	7440-43-9	0.00043 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.20	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0080 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0062 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.40	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0058 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0117	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 19:51	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 19:51	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13102WAE026	04/13/2013 08:18	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13102WAE026	04/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131036256001	04/13/2013 06:46	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131021848001	04/13/2013 03:11	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131021848001	04/13/2013 03:11	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131021848001	04/13/2013 03:11	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131021848001	04/13/2013 03:11	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131021848001	04/13/2013 03:11	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131021848001	04/13/2013 03:11	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131021848001	04/13/2013 03:11	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131021848001	04/13/2013 03:11	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131021848001	04/13/2013 03:11	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131021848001	04/13/2013 03:11	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131021848001	04/13/2013 03:11	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131025713001	04/13/2013 08:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131021848001	04/12/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131025713001	04/12/2013 16:30	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020046
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 14:30 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

7-051 SDG#: PEG19-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	13102807901A	04/12/2013 17:24	Michelle L Lalli	1

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

Sample Description: WS-006(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020047
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 15:00 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

6-SR- SDG#: PEG19-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	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)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020047
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 15:00 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

6-SR- SDG#: PEG19-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	14.5	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0215	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00043 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.23	0.0640	0.200	1

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

Sample Description: WS-006(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020047
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 15:00 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

6-SR- SDG#: PEG19-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0013 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.56	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0016 J	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	1.5 J	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 20:14	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 20:14	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13102WAE026	04/13/2013 08:45	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13102WAE026	04/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131036256001	04/13/2013 06:46	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131021848001	04/13/2013 03:16	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131021848001	04/13/2013 03:16	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131021848001	04/13/2013 03:16	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131021848001	04/13/2013 03:16	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131021848001	04/13/2013 03:16	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131021848001	04/13/2013 03:16	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131021848001	04/13/2013 03:16	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131021848001	04/13/2013 03:16	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131021848001	04/13/2013 03:16	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131021848001	04/13/2013 03:16	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131021848001	04/13/2013 03:16	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131025713001	04/13/2013 08:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131021848001	04/12/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131025713001	04/12/2013 16:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13102807901A	04/12/2013 17:24	Michelle L Lalli	1

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

Sample Description: WS-006(0.5-1.0)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020048
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 15:05 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

6-051 SDG#: PEG19-12

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

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

Sample Description: WS-006(0.5-1.0)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020048
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 15:05 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

6-051 SDG#: PEG19-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.1 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	N.D.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.055	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	N.D.	0.011	0.055	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	14.5	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0204	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00065 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.26	0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020048
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 15:05 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

6-051 SDG#: PEG19-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.53	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 20:35	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 20:35	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13102WAE026	04/13/2013 09:13	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13102WAE026	04/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131036256001	04/13/2013 06:46	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131021848001	04/13/2013 03:20	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131021848001	04/13/2013 03:20	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131021848001	04/13/2013 03:20	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131021848001	04/13/2013 03:20	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131021848001	04/13/2013 03:20	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131021848001	04/13/2013 03:20	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131021848001	04/13/2013 03:20	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131021848001	04/13/2013 03:20	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131021848001	04/13/2013 03:20	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131021848001	04/13/2013 03:20	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131021848001	04/13/2013 03:20	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131025713001	04/13/2013 08:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131021848001	04/12/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131025713001	04/12/2013 16:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13102807901A	04/12/2013 17:24	Michelle L Lalli	1

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

Sample Description: WS-008(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020049
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 16:00 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

8-SR- SDG#: PEG19-13

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	N.D.		6.0	10	2
02898	Allyl Chloride	107-05-1	N.D.		0.2	1.0	2
02898	Benzene	71-43-2	30		0.2	1.0	2
02898	Bromobenzene	108-86-1	N.D.		0.2	1.0	2
02898	Bromochloromethane	74-97-5	N.D.		0.2	1.0	2
02898	Bromodichloromethane	75-27-4	N.D.		0.2	1.0	2
02898	Bromoform	75-25-2	N.D.		0.2	1.0	2
02898	Bromomethane	74-83-9	N.D.		0.2	1.0	2
02898	2-Butanone	78-93-3	N.D.		2.0	10	2
02898	n-Butylbenzene	104-51-8	1.6		0.2	1.0	2
02898	sec-Butylbenzene	135-98-8	1.5		0.2	1.0	2
02898	tert-Butylbenzene	98-06-6	N.D.		0.2	1.0	2
02898	Carbon Tetrachloride	56-23-5	N.D.		0.2	1.0	2
02898	Chlorobenzene	108-90-7	N.D.		0.2	1.0	2
02898	Chloroethane	75-00-3	N.D.		0.2	1.0	2
02898	Chloroform	67-66-3	0.6	J	0.2	1.0	2
02898	Chloromethane	74-87-3	1.6		0.4	1.0	2
02898	2-Chlorotoluene	95-49-8	N.D.		0.2	1.0	2
02898	4-Chlorotoluene	106-43-4	N.D.		0.2	1.0	2
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.4	1.0	2
02898	Dibromochloromethane	124-48-1	N.D.		0.2	1.0	2
02898	1,2-Dibromoethane	106-93-4	N.D.		0.2	1.0	2
02898	Dibromomethane	74-95-3	N.D.		0.2	1.0	2
02898	1,2-Dichlorobenzene	95-50-1	N.D.		0.2	1.0	2
02898	1,3-Dichlorobenzene	541-73-1	N.D.		0.2	1.0	2
02898	1,4-Dichlorobenzene	106-46-7	N.D.		0.2	1.0	2
02898	Dichlorodifluoromethane	75-71-8	N.D.		0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	N.D.		0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	N.D.		0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	N.D.		0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	N.D.		0.2	1.0	2
02898	trans-1,2-Dichloroethene	156-60-5	N.D.		0.2	1.0	2
02898	Dichlorofluoromethane	75-43-4	N.D.		0.4	1.0	2
02898	1,2-Dichloropropane	78-87-5	N.D.		0.2	1.0	2
02898	1,3-Dichloropropane	142-28-9	N.D.		0.2	1.0	2
02898	2,2-Dichloropropane	594-20-7	N.D.		0.2	1.0	2
02898	1,1-Dichloropropene	563-58-6	N.D.		0.2	1.0	2
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.2	1.0	2
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.2	1.0	2
02898	Ethyl ether	60-29-7	N.D.		0.2	1.0	2
02898	Ethylbenzene	100-41-4	18		0.2	1.0	2
02898	Freon 113	76-13-1	N.D.		0.4	1.0	2
02898	Hexachlorobutadiene	87-68-3	N.D.		0.2	1.0	2
02898	Isopropylbenzene	98-82-8	3.7		0.2	1.0	2
02898	p-Isopropyltoluene	99-87-6	1.8		0.2	1.0	2
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.2	1.0	2
02898	4-Methyl-2-Pentanone	108-10-1	N.D.		2.0	10	2
02898	Methylene Chloride	75-09-2	N.D.		0.4	1.0	2

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

Sample Description: WS-008(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020049
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 16:00 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

8-SR- SDG#: PEG19-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	5.3	0.2	1.0	2
02898	Styrene	100-42-5	N.D.	0.2	1.0	2
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.2	1.0	2
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1.0	2
02898	Tetrachloroethene	127-18-4	N.D.	0.2	1.0	2
02898	Tetrahydrofuran	109-99-9	N.D.	4.0	10	2
02898	Toluene	108-88-3	93	2.0	10	20
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1.0	2
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1.0	2
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1.0	2
02898	Trichloroethene	79-01-6	N.D.	0.2	1.0	2
02898	Trichlorofluoromethane	75-69-4	N.D.	0.2	1.0	2
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.6	2.0	2
02898	1,2,4-Trimethylbenzene	95-63-6	29	0.2	1.0	2
02898	1,3,5-Trimethylbenzene	108-67-8	13	0.2	1.0	2
02898	Vinyl Chloride	75-01-4	N.D.	0.2	1.0	2
02898	Xylene (Total)	1330-20-7	130	0.2	1.0	2
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.30	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.22	0.010	0.051	1
08357	Anthracene	120-12-7	0.24	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.31	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.23	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.52	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.31	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.075	0.010	0.051	1
08357	Chrysene	218-01-9	0.78	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.060	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.21	0.010	0.051	1
08357	Fluorene	86-73-7	0.93	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.11	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	5.5	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	7.2	0.010	0.051	1
08357	Naphthalene	91-20-3	2.4	0.030	0.051	1
08357	Phenanthrene	85-01-8	1.8	0.030	0.051	1
08357	Pyrene	129-00-0	0.82	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**	
06256	Total Hardness as CaCO3	471-34-1	29.4	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0116 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.144	0.00033	0.0050	1

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

Sample Description: WS-008(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020049
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 16:00 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

8-SR- SDG#: PEG19-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07049	Cadmium	7440-43-9	0.0010 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.78	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0308	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0224	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.24	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0223	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0264	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	5.4	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 21:19	Jason M Long	2
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 21:40	Jason M Long	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 21:19	Jason M Long	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G131021AA	04/12/2013 21:40	Jason M Long	20
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13102WAE026	04/13/2013 09:40	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13102WAE026	04/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131036256001	04/13/2013 06:46	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131021848001	04/13/2013 03:25	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131021848001	04/13/2013 03:25	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131021848001	04/13/2013 03:25	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131021848001	04/13/2013 03:25	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131021848001	04/13/2013 03:25	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131021848001	04/13/2013 03:25	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131021848001	04/13/2013 03:25	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131021848001	04/13/2013 03:25	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131021848001	04/13/2013 03:25	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131021848001	04/13/2013 03:25	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131021848001	04/13/2013 03:25	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131025713001	04/13/2013 08:12	Damary Valentin	1

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

Sample Description: WS-008(SURFACE)041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020049
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 16:00 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

8-SR- SDG#: PEG19-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131021848001	04/12/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131025713001	04/12/2013 16:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13102807901A	04/12/2013 17:24	Michelle L Lalli	1

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

Sample Description: WS-DUP4-041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020050
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

DUP4- SDG#: PEG19-14FD

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

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

Sample Description: WS-DUP4-041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020050
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

DUP4- SDG#: PEG19-14FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	12.5	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0182	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00037 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	2.67	0.0640	0.200	1

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

Sample Description: WS-DUP4-041113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020050
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013 by JL

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

DUP4- SDG#: PEG19-14FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.41	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 20:57	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 20:57	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13102WAE026	04/13/2013 10:08	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13102WAE026	04/12/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131036256001	04/13/2013 06:46	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131021848001	04/13/2013 03:38	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131021848001	04/13/2013 03:38	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	131021848001	04/13/2013 03:38	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	131021848001	04/13/2013 03:38	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	131021848001	04/13/2013 03:38	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	131021848001	04/13/2013 03:38	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131021848001	04/13/2013 03:38	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	131021848001	04/13/2013 03:38	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131021848001	04/13/2013 03:38	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	131021848001	04/13/2013 03:38	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	131021848001	04/13/2013 03:38	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	131025713001	04/13/2013 08:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131021848001	04/12/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131025713001	04/12/2013 16:30	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13102807901A	04/12/2013 17:24	Michelle L Lalli	1

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

Sample Description: WS-TB-07-041113 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020051
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

TB7-- SDG#: PEG19-15TB*

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

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

Sample Description: WS-TB-07-041113 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7020051
LLI Group # 1382445
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/11/2013

Submitted: 04/12/2013 09:25
Reported: 04/13/2013 18:19

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

TB7-- SDG#: PEG19-15TB*

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131021AA	04/12/2013 15:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131021AA	04/12/2013 15:32	Jason M Long	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1382445
Reported: 04/13/13 at 06:19 PM

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

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: G131021AA	Sample number(s): 7020037-7020051								
Acetone	N.D.	3.0	5.0	ug/l	113		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	130		61-130		
Benzene	N.D.	0.1	0.5	ug/l	105		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	108		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	118		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	106		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	100		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	106		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	109		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	106		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	111		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	111		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	105		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	109		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	100		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	108		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	110		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	101		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	110		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	110		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	110		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	110		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	110		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	108		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	97		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	109		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	109		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	113		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	112		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	111		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	118		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	113		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	110		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	105		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	107		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	109		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	102		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	107		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	110		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	102		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	103		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: 1382445
Reported: 04/13/13 at 06:19 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	110		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	109		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	111		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	109		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	112		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	110		80-120		
Styrene	N.D.	0.1	0.5	ug/l	114		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	109		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	114		65-131		
Toluene	N.D.	0.1	0.5	ug/l	111		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	106		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	107		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	107		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	112		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	111		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	103		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	110		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	110		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	110		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	105		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	111		80-120		
Batch number: 13102WAE026	Sample number(s): 7020037-7020050								
Acenaphthene	N.D.	0.010	0.050	ug/l	97	100	65-124	2	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	100	102	72-113	2	30
Anthracene	N.D.	0.010	0.050	ug/l	100	102	70-117	2	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	103	104	75-115	1	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	98	102	72-120	4	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	106	107	74-130	1	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	90	91	63-121	0	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	101	105	74-118	4	30
Chrysene	N.D.	0.010	0.050	ug/l	98	100	75-112	3	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	85	89	66-122	5	30
Fluoranthene	N.D.	0.010	0.050	ug/l	107	110	73-116	2	30
Fluorene	N.D.	0.010	0.050	ug/l	98	99	74-115	2	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	92	93	66-122	2	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	100	103	72-114	2	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	105	107	74-119	2	30
Naphthalene	N.D.	0.030	0.050	ug/l	98	100	67-118	2	30
Phenanthrene	N.D.	0.030	0.050	ug/l	96	97	72-109	1	30
Pyrene	N.D.	0.010	0.050	ug/l	102	101	71-116	1	30
Batch number: 131021848001	Sample number(s): 7020037-7020050								
Arsenic	N.D.	0.0068	0.0200	mg/l	101		80-120		
Barium	N.D.	0.00033	0.0050	mg/l	103		80-120		
Cadmium	0.00046 J	0.00036	0.0050	mg/l	105		80-120		
Calcium	N.D.	0.0640	0.200	mg/l	103		80-120		
Chromium	N.D.	0.0011	0.0150	mg/l	100		80-120		
Lead	N.D.	0.0051	0.0150	mg/l	104		80-120		
Magnesium	N.D.	0.0606	0.100	mg/l	100		80-120		
Nickel	N.D.	0.0011	0.0100	mg/l	107		80-120		
Selenium	N.D.	0.0075	0.0200	mg/l	99		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	93		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	101		80-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil Group Number: 1382445
Reported: 04/13/13 at 06:19 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 131025713001	Sample number(s): 7020037-7020050									
Mercury	N.D.		0.00007 0	0.00020	mg/l	95		80-120		
Batch number: 13102807901A	Sample number(s): 7020037-7020050									
HEM (oil & grease)	1.8	J	1.4	5.0	mg/l	95	96	78-114	1	16

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: G131021AA	Sample number(s): 7020037-7020051 UNSPK: 7020037								
Acetone	110	104	57-163	6	30				
Allyl Chloride	133	134	67-139	1	30				
Benzene	106	109	87-126	2	30				
Bromobenzene	108	110	80-123	2	30				
Bromochloromethane	115	117	82-125	2	30				
Bromodichloromethane	101	105	82-133	4	30				
Bromoform	92	96	60-138	5	30				
Bromomethane	100	100	41-145	0	30				
2-Butanone	104	101	63-146	3	30				
n-Butylbenzene	111	114	83-131	3	30				
sec-Butylbenzene	113	114	84-128	1	30				
tert-Butylbenzene	110	114	84-135	4	30				
Carbon Tetrachloride	112	115	81-148	3	30				
Chlorobenzene	111	112	78-133	1	30				
Chloroethane	101	102	70-139	1	30				
Chloroform	107	110	86-136	2	30				
Chloromethane	88	89	55-152	1	30				
2-Chlorotoluene	109	111	81-120	2	30				
4-Chlorotoluene	108	112	82-119	4	30				
1,2-Dibromo-3-chloropropane	92	91	43-143	1	30				
Dibromochloromethane	100	106	79-125	5	30				
1,2-Dibromoethane	105	106	84-127	1	30				
Dibromomethane	103	107	83-126	4	30				
1,2-Dichlorobenzene	106	110	83-117	3	30				
1,3-Dichlorobenzene	109	112	81-118	2	30				
1,4-Dichlorobenzene	106	110	79-120	4	30				
Dichlorodifluoromethane	82	77	28-136	7	30				
1,1-Dichloroethane	109	112	88-136	2	30				
1,2-Dichloroethane	105	108	82-135	3	30				
1,1-Dichloroethene	120	120	83-150	0	30				
cis-1,2-Dichloroethene	111	113	82-129	2	30				
trans-1,2-Dichloroethene	114	114	88-127	0	30				
Dichlorofluoromethane	118	120	59-176	2	30				
1,2-Dichloropropane	112	115	91-126	3	30				
1,3-Dichloropropane	108	109	80-127	1	30				
2,2-Dichloropropane	105	109	80-134	4	30				
1,1-Dichloropropene	113	114	86-139	1	30				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil Group Number: 1382445
Reported: 04/13/13 at 06:19 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
cis-1,3-Dichloropropene	106	110	74-132	4	30				
trans-1,3-Dichloropropene	98	101	71-128	3	30				
Ethyl ether	101	105	67-127	4	30				
Ethylbenzene	111	113	80-140	1	30				
Freon 113	110	105	87-158	5	30				
Hexachlorobutadiene	106	107	65-128	1	30				
Isopropylbenzene	112	114	81-133	1	30				
p-Isopropyltoluene	112	114	84-124	1	30				
Methyl Tertiary Butyl Ether	104	105	82-132	1	30				
4-Methyl-2-Pentanone	101	104	69-149	2	30				
Methylene Chloride	110	114	84-122	3	30				
n-Propylbenzene	113	115	79-131	2	30				
Styrene	113	114	63-151	1	30				
1,1,1,2-Tetrachloroethane	104	110	87-126	5	30				
1,1,2,2-Tetrachloroethane	106	107	75-131	2	30				
Tetrachloroethene	109	110	75-129	1	30				
Tetrahydrofuran	105	101	56-154	4	30				
Toluene	112	114	83-127	2	30				
1,2,3-Trichlorobenzene	103	106	73-125	2	30				
1,2,4-Trichlorobenzene	103	108	77-120	4	30				
1,1,1-Trichloroethane	109	112	85-140	2	30				
1,1,2-Trichloroethane	109	112	85-129	2	30				
Trichloroethene	113	116	85-131	2	30				
Trichlorofluoromethane	102	101	67-161	1	30				
1,2,3-Trichloropropane	105	111	76-120	6	30				
1,2,4-Trimethylbenzene	110	112	87-126	2	30				
1,3,5-Trimethylbenzene	111	114	89-129	3	30				
Vinyl Chloride	100	100	65-151	0	30				
Xylene (Total)	112	114	81-137	2	30				
Batch number: 131021848001	Sample number(s): 7020037-7020050 UNSPK: 7020043 BKG: 7020043								
Arsenic	103	102	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	106	104	78-118	2	20	0.0805	0.0790	2	20
Cadmium	102	101	83-116	0	20	0.00071 J	0.00064 J	10 (1)	20
Calcium	110	110	81-118	0	20	4.50	4.48	1	20
Chromium	104	102	81-120	1	20	0.0084 J	0.0079 J	6 (1)	20
Lead	106	104	75-125	2	20	0.0086 J	0.0096 J	11 (1)	20
Magnesium	128*	125	75-125	1	20	2.60	2.57	1	20
Nickel	105	105	86-115	0	20	0.0068 J	0.0063 J	6 (1)	20
Selenium	100	101	75-125	2	20	N.D.	N.D.	0 (1)	20
Silver	94	93	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	102	101	90-111	1	20	0.0137	0.0128	6 (1)	20
Batch number: 131025713001	Sample number(s): 7020037-7020050 UNSPK: 7020038 BKG: 7020038								
Mercury	100	98	80-120	2	20	N.D.	N.D.	0 (1)	20
Batch number: 13102807901A	Sample number(s): 7020037-7020050 UNSPK: P015443								
HEM (oil & grease)	62*		78-114						

*- 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: 1382445
Reported: 04/13/13 at 06:19 PM

Surrogate Quality Control

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

Analysis Name: NHDES VOCs 25ml purge
Batch number: G131021AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7020037	98	102	99	97
7020038	99	101	100	98
7020039	100	100	99	97
7020040	100	101	100	97
7020041	98	100	100	98
7020042	98	100	99	97
7020043	98	101	99	98
7020044	99	100	100	99
7020045	99	101	99	97
7020046	99	99	100	99
7020047	99	100	99	97
7020048	99	100	100	99
7020049	97	99	104	99
7020050	98	101	99	98
7020051	99	101	100	98
Blank	99	100	100	98
LCS	99	101	101	98
MS	100	100	100	98
MSD	99	101	101	99
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13102WAE026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7020037	93	83	82
7020038	101	97	89
7020039	85	71	76
7020040	90	86	83
7020041	94	94	85
7020042	94	91	85
7020043	51*	42*	50*
7020044	51*	66	66
7020045	46*	56*	59
7020046	57*	48*	58
7020047	98	97	87
7020048	95	85	83
7020049	94	29*	74
7020050	102	96	89
Blank	96	98	86
LCS	99	97	89
LCSD	100	100	90
Limits:	64-120	62-141	58-134

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 14739 Group # 1382445 Sample # 7020037-51

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

SCR#: _____

1 Client Information

Facility #/SID: ARCADIS - MayFlower Pipeline Incident

Site Address: MayFlower, AR

ExxonMobil PM: Scott Bushroe

Cost Center/AFE:

Consultant/Office: ARCADIS

Consultant PM: Stephen Barrick

Consultant Phone #: 919-302-6799

Sampler: Jon LeMessurier 315-558-1904

4 Matrix

Soil ☐ Sediment ☐ Water ☑ (Ground ☐ Potable ☐ Surface ☑ NPDES ☐) Oil ☐ Air ☐

3 Grab / Composite

2 Sample Identification | Collected Date | Collected Time | Grab | Composite | Total # of Containers | **5 Analyses Requested** (Preservation Code) | VOCs - 8260B | PAH - 8260 SIM | 8RCRA Metals + Ni, V, Ca, Mg (Hg) | Oil & Grease - 1664

Sample Identification	Date	Time	Grab	Composite	Total # of Containers	VOCs - 8260B	PAH - 8260 SIM	8RCRA Metals + Ni, V, Ca, Mg (Hg)	Oil & Grease - 1664
WS-003 (Surface) 041113	4/11/13	9:05	✓		8	✓	✓	✓	✓
WS-002 (Surface) 041113		10:20	✓		8	✓	✓	✓	✓
WS-BKG-001 (Surface) 041113		10:55	✓		8	✓	✓	✓	✓
WS-005 (Surface) 041113		12:35	✓		8	✓	✓	✓	✓
WS-001 (Surface) 041113		13:15	✓		8	✓	✓	✓	✓
WS-001 (0.5-1.0) 041113		13:20	✓		8	✓	✓	✓	✓
WS-004 (Surface) 041113		13:50	✓		8	✓	✓	✓	✓
WS-004 (0.5-1.0) 041113		13:55	✓		8	✓	✓	✓	✓
WS-007 (Surface) 041113		14:25	✓		8	✓	✓	✓	✓
WS-007 (0.5-1.0) 041113		14:30	✓		8	✓	✓	✓	✓
WS-006 (Surface) 041113		15:00	✓		8	✓	✓	✓	✓
WS-006 (0.5-1.0) 041113	↓	15:05	✓		8	✓	✓	✓	✓

Preservation Codes

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

6 Remarks

Data Analysis questions:
Lyndi Mott - ARCADIS

7 Turnaround Time Requested (TAT) (please circle)

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

8 Data Package (circle if required)

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

EDD (circle if required)

Locus EIM (default)
Other _____

Relinquished by	Date	Time	Received by	Date	Time
[signature]	4/11/13	1700	[signature]		
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier			Received by [signature]	4.12.13	925

UPS ____ FedEx X Other ____

Temperature Upon Receipt 1.2-1.8 °C

Custody Seals Intact? (Yes) No

9

ExxonMobil Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 14739 Group # 1382445 Sample # 7020037-S1

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

SCR#: _____

(1) Client Information

Facility #/SID: ARCADIS-MayFlower Pipe Incident

Site Address: MayFlower, AR

ExxonMobil PM: Scott Bushroe

Cost Center/AFE:

Consultant/Office: ~~Stephen Borrick~~ ARCADIS

Consultant PM: Stephen Borrick

Consultant Phone #: 919-302-6799

Sampler: Jon LeMessurier 315-558-1904

(4) Matrix

Sediment ☐ Ground ☐ Surface ☑

Soil ☐ Potable ☐ NPDES ☐ Water ☑ Air ☐ Oil ☐

(5) Analyses Requested

Preservation Code

(2) Sample Identification	Collected Date	Collected Time	(3) Grab	Composite	Total # of Containers	VOCs - 8260B (H)	PAH - 8260 SIM	RCRA Metals + Ni, Mg, Ca, Mg, Hardness (N)	Oil + Grease - 1664 (H)
WS-008(Surface)041113	4/11/13	1600	✓		8	✓	✓	✓	✓
WS-Dup-041113	4/11/13	=	✓		8	✓	✓	✓	✓
WS-TR-07-041113	4/11/13	=	✓		2	✓			

Preservation Codes

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

(6) Remarks

- Data Analysis question: Lynd: Matt - ARCADIS

(7) Turnaround Time Requested (TAT) (please circle)

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

(8) Data Package (circle if required)

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

EDD (circle if required)

Locus EIM (default)
Other _____

Relinquished by	Date	Time	Received by	Date	Time
[signature]	4/11/13	1700			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier			Received by	Date	Time
UPS ____ FedEx X Other ____			[signature]	4-12-13	925

Temperature Upon Receipt 1.2-1.8 °C

Custody Seals Intact? (Yes) No

Kathy Klinefelter 14739, 1382445, 7020037-51

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Friday, April 12, 2013 3:11 PM
To: Kathy Klinefelter
Cc: Barrick, Stephen
Subject: RE: 1382445-Mayflower, AR Pipeline Incident-04/12/2013 9:25:00 Acknowledgement

Please have the last sample changed from
7020051 WS-TR-07-041113 Water to WS-TB-07-041113

Thank you,
Lyndi

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

-----Original Message-----
From: Lancaster Laboratories Automated Acknowledgements [mailto:LAutomatedAcknowledgements@lancasterlabs.com]
Sent: Friday, April 12, 2013 1:11 PM
To: Barrick, Stephen; Mott, Lyndi
Subject: 1382445-Mayflower, AR Pipeline Incident-04/12/2013 9:25:00 Acknowledgement

The following is an acknowledgement of the receipt of samples by Lancaster Laboratories. Please review this acknowledgement and contact your Client Service Representative if you have concerns.

This is an automated message from an unmonitored address. Please do not reply to this address.

---

eurofins | Lancaster Laboratories

G-1382445

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Exxon mobil

Date of Receipt: 4.12.13

Time of Receipt: 925

Source Code: 50-1

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

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

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	D#121	1.2	TB	WI	Y	B	
2	↓	1.8	↓	↓	↓	↓	
3		1.6					
4		1.7					
5	↓	1.7	↓	↓	↓	↓	
6	—						

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [signature] 2299 **Date/Time:** 4.12.13 10:18

Issued by Dept. 6042 Management

2174.06

eurofins | Lancaster Laboratories

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

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

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	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.