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 29, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 04/25/2013
Group Number: 1385424
SDG: PEG68
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LLI) #
WS-003(SURFACE)042413 Grab Surface Water	7034044
WS-019(SURFACE)042413 Grab Surface Water	7034045
WS-002(SURFACE)042413 Grab Surface Water	7034046
WS-002(SURFACE)MS042413 Grab Surface Water	7034047
WS-002(SURFACE)MSD042413 Grab Surface Water	7034048
WS-002(SURFACE)DUP042413 Grab Surface Water	7034049
WS-BKG-001(SURFACE)042413 Grab Surface Water	7034050
WS-005(SURFACE)042413 Grab Surface Water	7034051
WS-008(SURFACE)042413 Grab Surface Water	7034052
WS-001(SURFACE)042413 Grab Surface Water	7034053
WS-001(0.5-1.0)042413 Grab Surface Water	7034054
WS-004(SURFACE)042413 Grab Surface Water	7034055
WS-004(0.5-1.0)042413 Grab Surface Water	7034056
WS-007(SURFACE)042413 Grab Surface Water	7034057
WS-007(0.5-1.0)042413 Grab Surface Water	7034058
WS-006(SURFACE)042413 Grab Surface Water	7034059
WS-006(0.5-1.0)042413 Grab Surface Water	7034060
WS-DUP-13-042413 Grab Surface Water	7034061
WS-TB21-042413 Water	7034062

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	Attn: Michael J. Firth
ELECTRONIC COPY TO	ARCADIS	Attn: Emily Leamer

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1385424

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

Analysis Specific Comments:

SW-846 8260B 25mL purge, GC/MS Volatiles

Batch #: C131152AA (Sample number(s): 7034044-7034048, 7034050-7034062 UNSPK: 7034046)

The recovery(ies) for the following analyte(s) in the LCS exceeded the acceptance window indicating a positive bias: Dichlorodifluoromethane

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

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13115WAF026 (Sample number(s): 7034044-7034048, 7034050-7034055 UNSPK: 7034046)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7034044, 7034045, 7034054, 7034055

Batch #: 13115WAZ026 (Sample number(s): 7034056-7034061 UNSPK: 15WZUS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Anthracene, Benzo(a)pyrene

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7034056, 7034057, 7034058

Sample #s: 7034044, 7034054

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.

EPA 1664A, Wet Chemistry

Batch #: 13115807901B (Sample number(s): 7034044-7034048, 7034050-7034061 UNSPK: 7034046)

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

Sample Description: WS-003(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034044
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 08:55 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24003 SDG#: PEG68-01

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)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034044
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 08:55 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24003 SDG#: PEG68-01

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.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1

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

Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.4	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	0.0364	0.00033	0.0050	1

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

Sample Description: WS-003(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034044
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 08:55 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24003 SDG#: PEG68-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.27	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0020 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.76	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0021 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	0.0029 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	C131152AA	04/26/2013 04:54	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 04:54	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAF026	04/25/2013 22:43	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAF026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 22:29	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 22:29	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 22:29	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 22:29	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 22:29	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 22:29	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 22:29	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 22:29	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 22:29	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 22:29	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 22:29	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1

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

Sample Description: WS-003(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034044
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 08:55 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24003 SDG#: PEG68-01

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	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-019(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034045
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 09:35 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24019 SDG#: PEG68-02

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

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

Sample Description: WS-019(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034045
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 09:35 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24019 SDG#: PEG68-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	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	45.1	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0083 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.219	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	10.2	0.0640	0.200	1

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

Sample Description: WS-019(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034045
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 09:35 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24019 SDG#: PEG68-02

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	0.0203	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0186	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.77	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0185	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	0.0303	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	C131152AA	04/26/2013 05:16	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 05:16	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAF026	04/25/2013 23:10	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAF026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 22:33	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 22:33	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 22:33	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 22:33	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 22:33	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 22:33	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 22:33	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 22:33	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 22:33	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 22:33	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 22:33	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-002(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034046
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:30 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24002 SDG#: PEG68-03BKG

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)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034046
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:30 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24002 SDG#: PEG68-03BKG

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	13.4	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	0.0199	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	2.92	0.0640	0.200	1

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

Sample Description: WS-002(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034046
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:30 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24002 SDG#: PEG68-03BKG

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	1.49	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0017 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	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	C131152AA	04/26/2013 03:48	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 03:48	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAF026	04/25/2013 23:37	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAF026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 22:00	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 22:00	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 22:00	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 22:00	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 22:00	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 22:00	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 22:00	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 22:00	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 22:00	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 22:00	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 22:00	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-002(SURFACE)MS042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034047
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:30 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24002 SDG#: PEG68-03MS

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	25	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.2	0.1	0.5	1
02898	Benzene	71-43-2	5.2	0.1	0.5	1
02898	Bromobenzene	108-86-1	4.9	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.9	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.0	0.1	0.5	1
02898	Bromoform	75-25-2	4.9	0.1	0.5	1
02898	Bromomethane	74-83-9	5.2	0.1	0.5	1
02898	2-Butanone	78-93-3	26	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.4	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.4	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.7	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.5	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.2	0.1	0.5	1
02898	Chloroethane	75-00-3	5.1	0.1	0.5	1
02898	Chloroform	67-66-3	5.2	0.1	0.5	1
02898	Chloromethane	74-87-3	5.5	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.1	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.1	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.2	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.0	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.8	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.9	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.1	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.2	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.1	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	6.8	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.3	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.9	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.6	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.2	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.4	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.1	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.2	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.9	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.4	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.4	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.6	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.7	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.1	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.4	0.1	0.5	1
02898	Freon 113	76-13-1	5.5	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.5	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.5	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.5	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.8	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	19	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.2	0.2	0.5	1

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

Sample Description: WS-002(SURFACE)MS042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034047
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:30 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24002 SDG#: PEG68-03MS

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	0.1	0.5	1
02898	Styrene	100-42-5	5.4	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.1	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.8	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.4	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	17	2.0	5.0	1
02898	Toluene	108-88-3	5.2	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.4	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.4	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.4	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.0	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.3	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.6	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.9	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.3	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.3	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.7	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	16	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	1.0	0.011	0.053	1
08357	Acenaphthylene	208-96-8	1.1	0.011	0.053	1
08357	Anthracene	120-12-7	0.80	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	1.1	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	0.92	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	1.1	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	0.98	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	1.1	0.011	0.053	1
08357	Chrysene	218-01-9	1.1	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	0.97	0.011	0.053	1
08357	Fluoranthene	206-44-0	1.1	0.011	0.053	1
08357	Fluorene	86-73-7	1.1	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.98	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.011	0.053	1
08357	Naphthalene	91-20-3	1.2	0.032	0.053	1
08357	Phenanthrene	85-01-8	1.1	0.032	0.053	1
08357	Pyrene	129-00-0	1.1	0.011	0.053	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	31.6	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.154	0.0068	0.0200	1
07046	Barium	7440-39-3	2.07	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0520	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.98	0.0640	0.200	1

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

Sample Description: WS-002(SURFACE)MS042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034047
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:30 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24002 SDG#: PEG68-03MS

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	0.207	0.0011	0.0150	1
07055	Lead	7439-92-1	0.156	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.44	0.0606	0.100	1
07061	Nickel	7440-02-0	0.533	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.149	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0486	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.526	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00093	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	20.0	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	C131152AA	04/26/2013 04:10	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 04:10	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAF026	04/26/2013 00:04	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAF026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 22:14	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 22:14	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 22:14	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 22:14	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 22:14	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 22:14	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 22:14	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 22:14	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 22:14	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 22:14	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 22:14	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-002(SURFACE)MSD042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034048
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:30 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24002 SDG#: PEG68-03MSD

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	27	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.3	0.1	0.5	1
02898	Benzene	71-43-2	5.3	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.1	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.0	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.1	0.1	0.5	1
02898	Bromoform	75-25-2	4.9	0.1	0.5	1
02898	Bromomethane	74-83-9	5.3	0.1	0.5	1
02898	2-Butanone	78-93-3	26	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.5	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.6	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	6.0	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.7	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.3	0.1	0.5	1
02898	Chloroethane	75-00-3	5.3	0.1	0.5	1
02898	Chloroform	67-66-3	5.3	0.1	0.5	1
02898	Chloromethane	74-87-3	5.6	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.4	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.4	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.1	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.1	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.0	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.0	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.2	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.3	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.2	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	6.9	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.4	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.0	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.7	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.3	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.5	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.1	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.4	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.0	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.6	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.6	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.9	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.9	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.3	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.5	0.1	0.5	1
02898	Freon 113	76-13-1	5.5	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.5	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.6	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.7	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.9	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	19	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.3	0.2	0.5	1

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

Sample Description: WS-002(SURFACE)MSD042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034048
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:30 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24002 SDG#: PEG68-03MSD

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	5.5	0.1	0.5	1
02898	Styrene	100-42-5	5.5	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.2	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.9	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.6	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	17	2.0	5.0	1
02898	Toluene	108-88-3	5.4	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.4	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.5	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.6	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.1	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.5	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.7	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.0	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.5	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.5	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.7	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	16	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.95	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.0	0.010	0.051	1
08357	Anthracene	120-12-7	0.75	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.93	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.74	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.89	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.75	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.88	0.010	0.051	1
08357	Chrysene	218-01-9	0.92	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.73	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.0	0.010	0.051	1
08357	Fluorene	86-73-7	1.0	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.0	0.010	0.051	1
08357	Naphthalene	91-20-3	1.1	0.031	0.051	1
08357	Phenanthrene	85-01-8	1.0	0.031	0.051	1
08357	Pyrene	129-00-0	1.0	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	31.6	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.149	0.0068	0.0200	1
07046	Barium	7440-39-3	2.02	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0515	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.97	0.0640	0.200	1

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

Sample Description: WS-002(SURFACE)MSD042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034048
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:30 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24002 SDG#: PEG68-03MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.204	0.0011	0.0150	1
07055	Lead	7439-92-1	0.154	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.46	0.0606	0.100	1
07061	Nickel	7440-02-0	0.526	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.149	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0476	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.516	0.0013	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00091	0.000070	0.00020	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	23.8	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	C131152AA	04/26/2013 04:32	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 04:32	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAF026	04/26/2013 00:31	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAF026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 22:19	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 22:19	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 22:19	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 22:19	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 22:19	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 22:19	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 22:19	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 22:19	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 22:19	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 22:19	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 22:19	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:20	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-002(SURFACE)DUP042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034049
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 10:30 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24002 SDG#: PEG68-03DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	13.4	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	0.0193	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	2.91	0.0640	0.200	1
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	1.48	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0016 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	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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 22:10	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 22:10	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 22:10	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 22:10	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 22:10	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 22:10	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 22:10	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 22:10	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 22:10	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 22:10	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 22:10	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1

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

Sample Description: WS-BKG-001(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034050
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 11:10 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24BKG SDG#: PEG68-04

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-BKG-001(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034050
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 11:10 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24BKG SDG#: PEG68-04

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.	0.010	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	0.012 J	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	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	0.033 J	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	19.5	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	0.0340	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.18	0.0640	0.200	1

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

Sample Description: WS-BKG-001(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034050
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 11:10 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24BKG SDG#: PEG68-04

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	1.58	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0021 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	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	C131152AA	04/26/2013 05:38	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 05:38	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAF026	04/26/2013 00:58	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAF026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 22:48	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 22:48	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 22:48	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 22:48	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 22:48	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 22:48	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 22:48	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 22:48	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 22:48	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 22:48	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 22:48	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:22	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-005(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034051
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 11:40 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24005 SDG#: PEG68-05

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-005(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034051
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 11:40 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24005 SDG#: PEG68-05

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	14.4	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	0.0176	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.21	0.0640	0.200	1

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

Sample Description: WS-005(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034051
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 11:40 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24005 SDG#: PEG68-05

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	1.56	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	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	C131152AA	04/26/2013 06:01	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 06:01	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAF026	04/26/2013 01:25	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAF026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 22:52	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 22:52	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 22:52	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 22:52	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 22:52	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 22:52	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 22:52	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 22:52	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 22:52	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 22:52	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 22:52	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:24	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-008(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034052
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 12:15 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24008 SDG#: PEG68-06

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	0.3	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	0.2	J	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-008(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034052
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 12:15 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24008 SDG#: PEG68-06

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	0.4	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	0.6		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.051	1
08357	Anthracene	120-12-7	N.D.		0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.051	1
08357	Chrysene	218-01-9	N.D.		0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.		0.010	0.051	1
08357	Fluorene	86-73-7	0.012	J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.015	J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.014	J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.		0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.		0.030	0.051	1
08357	Pyrene	129-00-0	N.D.		0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	27.9		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	0.0487		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1
01750	Calcium	7440-70-2	6.01		0.0640	0.200	1

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

Sample Description: WS-008(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034052
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 12:15 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24008 SDG#: PEG68-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0054 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.14	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0055 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	0.0078	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	C131152AA	04/26/2013 06:22	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 06:22	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAF026	04/26/2013 01:53	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAF026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 22:57	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 22:57	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 22:57	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 22:57	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 22:57	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 22:57	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 22:57	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 22:57	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 22:57	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 22:57	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 22:57	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-001(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034053
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:05 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24-11 SDG#: PEG68-07

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

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

Sample Description: WS-001(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034053
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:05 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24-11 SDG#: PEG68-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	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	14.8	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	0.0265	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	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(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034053
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:05 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24-11 SDG#: PEG68-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0017 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.61	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0027 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	0.0025 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	C131152AA	04/26/2013 06:44	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 06:44	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAF026	04/26/2013 02:20	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAF026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 23:02	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 23:02	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 23:02	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 23:02	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 23:02	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 23:02	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 23:02	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 23:02	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 23:02	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 23:02	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 23:02	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:28	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-001(0.5-1.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034054
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:10 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24012 SDG#: PEG68-08

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	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)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034054
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:10 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24012 SDG#: PEG68-08

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	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
	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	14.9	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	0.0238	0.00033	0.0050	1

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

Sample Description: WS-001(0.5-1.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034054
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:10 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24012 SDG#: PEG68-08

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	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.34	0.0640	0.200	1
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	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	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	C131152AA	04/26/2013 07:06	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 07:06	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAF026	04/26/2013 02:47	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAF026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 23:06	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 23:06	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 23:06	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 23:06	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 23:06	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 23:06	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 23:06	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 23:06	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 23:06	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 23:06	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 23:06	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1

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

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Analysis Report

Sample Description: WS-001(0.5-1.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034054
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:10 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24012 SDG#: PEG68-08

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	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-004(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034055
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:35 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24-41 SDG#: PEG68-09

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	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	0.1	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	N.D.		0.1	0.5	1
02898	Freon 113	76-13-1	N.D.		0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.		0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	0.1	J	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1

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

Sample Description: WS-004(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034055
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:35 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24-41 SDG#: PEG68-09

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	0.5	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	0.3	J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.5	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	1.8		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	0.012	J	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.052	1
08357	Fluoranthene	206-44-0	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	0.017	J	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	32.7		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0076	J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.214		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1
01750	Calcium	7440-70-2	6.92		0.0640	0.200	1

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

Sample Description: WS-004(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034055
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:35 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24-41 SDG#: PEG68-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0157	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0204	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.76	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0159	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	0.0282	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	C131152AA	04/26/2013 07:28	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 07:28	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAF026	04/26/2013 05:11	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAF026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 23:11	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 23:11	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 23:11	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 23:11	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 23:11	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 23:11	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 23:11	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 23:11	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 23:11	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 23:11	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 23:11	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-004(0.5-1.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034056
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:40 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24042 SDG#: PEG68-10

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	0.3	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	0.2	J	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	0.1	J	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.		1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.		0.2	0.5	1

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

Sample Description: WS-004(0.5-1.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034056
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:40 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24042 SDG#: PEG68-10

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	2.9	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	0.6	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.7	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	2.9	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.011 J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.011 J	0.010	0.052	1
08357	Naphthalene	91-20-3	0.034 J	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	0.013 J	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	39.4	0.064	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0101 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.288	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00039 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.33	0.0640	0.200	1

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

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Analysis Report

Sample Description: WS-004(0.5-1.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034056
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 14:40 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24042 SDG#: PEG68-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0314	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0298	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.12	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0268	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	0.0507	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	C131152AA	04/26/2013 07:50	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 07:50	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAZ026	04/26/2013 14:08	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAZ026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 23:16	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 23:16	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 23:16	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 23:16	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 23:16	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 23:16	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 23:16	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 23:16	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 23:16	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 23:16	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 23:16	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-007(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034057
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 15:10 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24-71 SDG#: PEG68-11

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	3.4 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)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034057
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 15:10 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24-71 SDG#: PEG68-11

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	0.2	J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.4	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	1		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	0.012	J	0.011	0.054	1
08357	Anthracene	120-12-7	0.028	J	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	0.033	J	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	0.017	J	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	0.073		0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	0.019	J	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	0.025	J	0.011	0.054	1
08357	Chrysene	218-01-9	0.11		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	0.31		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	0.021	J	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	0.052	J	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	0.075		0.011	0.054	1
08357	Naphthalene	91-20-3	0.12		0.032	0.054	1
08357	Phenanthrene	85-01-8	0.069		0.032	0.054	1
08357	Pyrene	129-00-0	0.19		0.011	0.054	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	35.8		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.010	J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.241		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1
01750	Calcium	7440-70-2	6.86		0.0640	0.200	1

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

Sample Description: WS-007(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034057
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 15:10 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24-71 SDG#: PEG68-11

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	0.0229	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0266	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.53	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0214	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	0.0374	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	C131152AA	04/26/2013 08:12	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 08:12	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAZ026	04/26/2013 14:36	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAZ026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 23:20	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 23:20	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 23:20	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 23:20	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 23:20	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 23:20	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 23:20	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 23:20	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 23:20	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 23:20	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 23:20	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-007(0.5-1.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034058
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 15:15 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24072 SDG#: PEG68-12

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

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

Sample Description: WS-007(0.5-1.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034058
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 15:15 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24072 SDG#: PEG68-12

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	0.4	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	0.3	J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.8		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	1.5		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	0.052	1
08357	Acenaphthylene	208-96-8	0.017	J	0.010	0.052	1
08357	Anthracene	120-12-7	0.039	J	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.068		0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.042	J	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.18		0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.043	J	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.060		0.010	0.052	1
08357	Chrysene	218-01-9	0.21		0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.012	J	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.54		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	0.055		0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.013	J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.016	J	0.010	0.052	1
08357	Naphthalene	91-20-3	0.043	J	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.13		0.031	0.052	1
08357	Pyrene	129-00-0	0.32		0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	37.0		0.064	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0096	J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.265		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1
01750	Calcium	7440-70-2	6.91		0.0640	0.200	1

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

Sample Description: WS-007(0.5-1.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034058
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 15:15 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24072 SDG#: PEG68-12

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	0.0245	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0318	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.80	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0233	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	0.0400	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	C131152AA	04/26/2013 08:34	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 08:34	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAZ026	04/26/2013 15:03	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAZ026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 23:25	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 23:25	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 23:25	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 23:25	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 23:25	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 23:25	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 23:25	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 23:25	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 23:25	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 23:25	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 23:25	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-006(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034059
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 15:40 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24-61 SDG#: PEG68-13

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.	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)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034059
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 15:40 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24-61 SDG#: PEG68-13

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	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	14.9	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	0.0211	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	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(SURFACE)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034059
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 15:40 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24-61 SDG#: PEG68-13

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**	
07051	Chromium	7440-47-3	0.0019 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.64	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0020 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.	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	C131152AA	04/26/2013 08:56	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 08:56	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAZ026	04/26/2013 15:31	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAZ026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 23:30	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 23:30	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 23:30	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 23:30	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 23:30	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 23:30	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 23:30	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 23:30	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 23:30	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 23:30	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 23:30	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-006(0.5-1.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034060
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 15:45 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24062 SDG#: PEG68-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL 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)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034060
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 15:45 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24062 SDG#: PEG68-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	15.1	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	0.0212	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.36	0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034060
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 15:45 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24062 SDG#: PEG68-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0011 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.63	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0014 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	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	C131152AA	04/26/2013 09:19	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 09:19	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAZ026	04/26/2013 15:58	Mark A Clark	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAZ026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 23:44	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 23:44	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 23:44	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 23:44	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 23:44	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 23:44	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 23:44	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 23:44	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 23:44	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 23:44	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 23:44	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-DUP-13-042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034061
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24D13 SDG#: PEG68-15FD

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	0.3	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	0.2	J	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-DUP-13-042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034061
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24D13 SDG#: PEG68-15FD

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	0.4	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	0.6		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.051	1
08357	Anthracene	120-12-7	N.D.		0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.		0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.		0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.051	1
08357	Chrysene	218-01-9	N.D.		0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.		0.010	0.051	1
08357	Fluorene	86-73-7	N.D.		0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.011	J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.		0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.		0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.		0.031	0.051	1
08357	Pyrene	129-00-0	N.D.		0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	28.5		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	0.0509		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00036	0.0050	1
01750	Calcium	7440-70-2	6.09		0.0640	0.200	1

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

Sample Description: WS-DUP-13-042413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034061
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013 by AD

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24D13 SDG#: PEG68-15FD

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	0.0065 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.24	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0065 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	0.0094	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	C131152AA	04/26/2013 09:41	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 09:41	Stephanie A Selis	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13115WAZ026	04/27/2013 19:48	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13115WAZ026	04/25/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131166256001	04/26/2013 05:16	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131151848002	04/25/2013 23:49	John P Hook	1
07046	Barium	SW-846 6010B	1	131151848002	04/25/2013 23:49	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131151848002	04/25/2013 23:49	John P Hook	1
01750	Calcium	SW-846 6010B	1	131151848002	04/25/2013 23:49	John P Hook	1
07051	Chromium	SW-846 6010B	1	131151848002	04/25/2013 23:49	John P Hook	1
07055	Lead	SW-846 6010B	1	131151848002	04/25/2013 23:49	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131151848002	04/25/2013 23:49	John P Hook	1
07061	Nickel	SW-846 6010B	1	131151848002	04/25/2013 23:49	John P Hook	1
07036	Selenium	SW-846 6010B	1	131151848002	04/25/2013 23:49	John P Hook	1
07066	Silver	SW-846 6010B	1	131151848002	04/25/2013 23:49	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131151848002	04/25/2013 23:49	John P Hook	1
00259	Mercury	SW-846 7470A	1	131155713002	04/26/2013 07:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131151848002	04/25/2013 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131155713002	04/25/2013 16:50	Nelli S Markaryan	1
08079	HEM (oil & grease)	EPA 1664A	1	13115807901B	04/25/2013 12:10	Michele L Graham	1

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

Sample Description: WS-TB21-042413 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034062
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24T21 SDG#: PEG68-16TB*

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-TB21-042413 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7034062
LLI Group # 1385424
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/24/2013

Submitted: 04/25/2013 09:30
Reported: 04/29/2013 16:36

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

24T21 SDG#: PEG68-16TB*

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	C131152AA	04/26/2013 03:25	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131152AA	04/26/2013 03:25	Stephanie A Selis	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1385424
Reported: 04/29/13 at 04:36 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: C131152AA	Sample number(s): 7034044-7034048,7034050-7034062								
Acetone	N.D.	3.0	5.0	ug/l	76		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	108		61-130		
Benzene	N.D.	0.1	0.5	ug/l	106		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	102		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	102		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	97		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	101		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	76		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	110		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	117		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	110		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	101		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	108		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	105		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	107		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	106		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	88		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	102		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	101		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	101		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	108		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	126*		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	105		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	112		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	97		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	107		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	102		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	108		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	109		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	96		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	95		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	110		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	105		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	106		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: 1385424
Reported: 04/29/13 at 04:36 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	113		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	110		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	101		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	76		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	108		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
Styrene	N.D.	0.1	0.5	ug/l	112		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	107		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	100		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	110		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	76		65-131		
Toluene	N.D.	0.1	0.5	ug/l	108		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	104		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	106		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	108		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	103		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	104		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	100		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	109		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	110		80-120		
Batch number: 13115WAF026	Sample number(s): 7034044-7034048,7034050-7034055								
Acenaphthene	N.D.	0.010	0.050	ug/l	99		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	104		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	103		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	107		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	101		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	105		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	100		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	111		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	111		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	97		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	105		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	102		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	98		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	107		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	104		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	103		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	102		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	113		71-116		
Batch number: 13115WAZ026	Sample number(s): 7034056-7034061								
Acenaphthene	N.D.	0.010	0.050	ug/l	92		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	94		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	93		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	86		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	84		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	95		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	81		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	90		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	89		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	85		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	105		73-116		

*- Outside of specification
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(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: 1385424
Reported: 04/29/13 at 04:36 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	N.D.	0.010	0.050	ug/l	98		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	85		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	96		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	92		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	88		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	91		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	77		71-116		
Batch number: 131151848002	Sample number(s): 7034044-7034061								
Arsenic	N.D.	0.0068	0.0200	mg/l	101		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	103		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	103		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	102		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	103		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	104		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	99		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	106		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	100		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	97		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	104		90-110		
Batch number: 131155713002	Sample number(s): 7034044-7034061								
Mercury	N.D.	0.00007 0	0.00020	mg/l	92		80-120		
Batch number: 13115807901B	Sample number(s): 7034044-7034048,7034050-7034061								
HEM (oil & grease)	N.D.	1.4	5.0	mg/l	88	86	78-114	2	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: C131152AA	Sample number(s): 7034044-7034048,7034050-7034062 UNSPK: 7034046								
Acetone	66	71	57-163	6	30				
Allyl Chloride	103	106	67-139	3	30				
Benzene	104	107	87-126	3	30				
Bromobenzene	99	103	80-123	4	30				
Bromochloromethane	98	100	82-125	2	30				
Bromodichloromethane	100	102	82-133	2	30				
Bromoform	97	99	60-138	1	30				
Bromomethane	105	105	41-145	0	30				
2-Butanone	68	69	63-146	1	30				
n-Butylbenzene	108	111	83-131	3	30				
sec-Butylbenzene	108	113	84-128	4	30				
tert-Butylbenzene	114	120	84-135	5	30				
Carbon Tetrachloride	110	114	81-148	3	30				
Chlorobenzene	104	107	78-133	3	30				
Chloroethane	103	106	70-139	3	30				
Chloroform	104	107	86-136	3	30				
Chloromethane	111	112	55-152	1	30				

*- Outside of specification
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(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: 1385424
Reported: 04/29/13 at 04:36 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
2-Chlorotoluene	103	107	81-120	4	30				
4-Chlorotoluene	103	108	82-119	5	30				
1,2-Dibromo-3-chloropropane	84	82	43-143	3	30				
Dibromochloromethane	99	101	79-125	2	30				
1,2-Dibromoethane	97	99	84-127	2	30				
Dibromomethane	99	100	83-126	1	30				
1,2-Dichlorobenzene	102	104	83-117	2	30				
1,3-Dichlorobenzene	105	106	81-118	1	30				
1,4-Dichlorobenzene	102	104	79-120	3	30				
Dichlorodifluoromethane	136	137*	28-136	1	30				
1,1-Dichloroethane	105	109	88-136	3	30				
1,2-Dichloroethane	98	100	82-135	2	30				
1,1-Dichloroethene	112	115	83-150	3	30				
cis-1,2-Dichloroethene	104	107	82-129	2	30				
trans-1,2-Dichloroethene	108	110	88-127	2	30				
Dichlorofluoromethane	102	103	59-176	1	30				
1,2-Dichloropropane	104	108	91-126	3	30				
1,3-Dichloropropane	98	100	80-127	2	30				
2,2-Dichloropropane	107	112	80-134	4	30				
1,1-Dichloropropene	109	112	86-139	3	30				
cis-1,3-Dichloropropene	93	97	74-132	5	30				
trans-1,3-Dichloropropene	94	98	71-128	4	30				
Ethyl ether	83	85	67-127	3	30				
Ethylbenzene	107	109	80-140	2	30				
Freon 113	110	111	87-158	1	30				
Hexachlorobutadiene	109	110	65-128	0	30				
Isopropylbenzene	111	113	81-133	2	30				
p-Isopropyltoluene	110	113	84-124	3	30				
Methyl Tertiary Butyl Ether	96	99	82-132	3	30				
4-Methyl-2-Pentanone	74	77	69-149	4	30				
Methylene Chloride	103	107	84-122	3	30				
n-Propylbenzene	105	110	79-131	4	30				
Styrene	108	111	63-151	2	30				
1,1,1,2-Tetrachloroethane	102	104	87-126	2	30				
1,1,2,2-Tetrachloroethane	96	98	75-131	2	30				
Tetrachloroethene	108	112	75-129	3	30				
Tetrahydrofuran	67	68	56-154	1	30				
Toluene	105	108	83-127	3	30				
1,2,3-Trichlorobenzene	108	108	73-125	0	30				
1,2,4-Trichlorobenzene	107	109	77-120	2	30				
1,1,1-Trichloroethane	108	111	85-140	3	30				
1,1,2-Trichloroethane	101	101	85-129	0	30				
Trichloroethene	107	110	85-131	3	30				
Trichlorofluoromethane	112	113	67-161	1	30				
1,2,3-Trichloropropane	98	101	76-120	3	30				
1,2,4-Trimethylbenzene	106	109	87-126	3	30				
1,3,5-Trimethylbenzene	106	111	89-129	4	30				
Vinyl Chloride	113	114	65-151	1	30				
Xylene (Total)	107	110	81-137	2	30				
Batch number: 13115WAF026	Sample number(s): 7034044-7034048,7034050-7034055 UNSPK: 7034046								
Acenaphthene	96	92	59-127	7	30				

*- Outside of specification
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(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: 1385424
Reported: 04/29/13 at 04:36 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
Acenaphthylene	106	101	33-146	8	30				
Anthracene	76	73	69-119	7	30				
Benzo(a)anthracene	101	91	67-124	14	30				
Benzo(a)pyrene	87	72	64-123	22	30				
Benzo(b)fluoranthene	102	87	61-133	19	30				
Benzo(g,h,i)perylene	93	73	36-138	27	30				
Benzo(k)fluoranthene	105	86	59-128	23	30				
Chrysene	101	90	62-118	15	30				
Dibenz(a,h)anthracene	91	72	32-141	28	30				
Fluoranthene	105	100	65-123	8	30				
Fluorene	104	100	69-124	7	30				
Indeno(1,2,3-cd)pyrene	93	73	29-143	27	30				
1-Methylnaphthalene	108	103	67-117	8	30				
2-Methylnaphthalene	105	100	71-126	8	30				
Naphthalene	109	105	58-131	7	30				
Phenanthrene	102	98	67-117	7	30				
Pyrene	104	99	59-125	9	30				
Batch number: 13115WAZ026	Sample number(s): 7034056-7034061 UNSPK: P15WZUS								
Acenaphthene	88	85	59-127	8	30				
Acenaphthylene	94	90	33-146	7	30				
Anthracene	68*	64*	69-119	8	30				
Benzo(a)anthracene	82	74	67-124	13	30				
Benzo(a)pyrene	68	55*	64-123	25	30				
Benzo(b)fluoranthene	88	74	61-133	20	30				
Benzo(g,h,i)perylene	77	58	36-138	31*	30				
Benzo(k)fluoranthene	83	65	59-128	27	30				
Chrysene	82	74	62-118	14	30				
Dibenz(a,h)anthracene	81	61	32-141	31*	30				
Fluoranthene	104	99	65-123	8	30				
Fluorene	99	95	69-124	8	30				
Indeno(1,2,3-cd)pyrene	81	60	29-143	33*	30				
1-Methylnaphthalene	97	93	67-117	7	30				
2-Methylnaphthalene	94	90	71-126	8	30				
Naphthalene	82	79	58-131	6	30				
Phenanthrene	90	86	67-117	8	30				
Pyrene	76	73	59-125	8	30				
Batch number: 131151848002	Sample number(s): 7034044-7034061 UNSPK: 7034046 BKG: 7034046								
Arsenic	103	99	81-123	3	20	N.D.	N.D.	0 (1)	20
Barium	102	100	78-118	2	20	0.0199	0.0193	3 (1)	20
Cadmium	104	103	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	102	101	81-118	0	20	2.92	2.91	0	20
Chromium	104	102	81-120	2	20	N.D.	N.D.	0 (1)	20
Lead	104	103	75-125	1	20	N.D.	N.D.	0 (1)	20
Magnesium	98	98	75-125	0	20	1.49	1.48	1	20
Nickel	106	105	86-115	1	20	0.0017 J	0.0016 J	6 (1)	20
Selenium	99	99	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	97	95	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	105	103	90-111	2	20	N.D.	N.D.	0 (1)	20
Batch number: 131155713002	Sample number(s): 7034044-7034061 UNSPK: 7034046 BKG: 7034046								

*- 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: 1385424
Reported: 04/29/13 at 04:36 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
Mercury	93	91	80-120	2	20	N.D.	N.D.	0 (1)	20
Batch number: 13115807901B	Sample number(s): 7034044-7034048,7034050-7034061 UNSPK: 7034046								
HEM (oil & grease)	49*	58*	78-114	17	29				

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: C131152AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7034044	100	98	99	98
7034045	100	97	99	99
7034046	101	99	99	96
7034047	99	96	101	100
7034048	99	97	101	100
7034050	100	96	99	97
7034051	100	97	100	96
7034052	100	97	99	98
7034053	101	98	99	98
7034054	101	97	99	97
7034055	100	97	98	99
7034056	100	97	99	100
7034057	98	96	99	99
7034058	98	96	100	100
7034059	99	96	100	97
7034060	100	98	99	96
7034061	100	97	99	99
7034062	101	98	100	97
Blank	99	97	99	98
LCS	99	96	101	100
MS	99	96	101	100
MSD	99	97	101	100
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13115WAF026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7034044	83	57*	87
7034045	24*	15*	28*
7034046	97	93	93
7034047	97	95	95
7034048	91	76	90

*- 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: 1385424
Reported: 04/29/13 at 04:36 PM

Surrogate Quality Control

7034050	96	91	90
7034051	82	82	77
7034052	78	63	78
7034053	87	76	84
7034054	70	58*	67
7034055	53*	35*	59
Blank	93	89	91
LCS	96	97	94
MS	97	95	95
MSD	91	76	90
Limits:	64-120	62-141	58-134

Analysis Name: PAHs in waters by SIM
Batch number: 13115WAZ026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7034056	52*	33*	49*
7034057	50*	35*	53*
7034058	60*	33*	59
7034059	88	65	71
7034060	100	72	83
7034061	95	71	81
Blank	109	102	90
LCS	111	105	91
MS	111	97	92
MSD	105	77	88
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

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For Lancaster Laboratories use only
Acct. # 14739 Group # 1385424 Sample # 7034044-62
Instructions on reverse side correspond with circled numbers.

Pg #1

SCR#:

① Client Information

Facility #/SID	Mayflower Pipeline Incident
Site Address	Mayflower, AR
ExxonMobil PM	Scott Bushroe
Cost Center/AFE	
Consultant/Office	ARCADIS
Consultant PM	Steve Barrick
Consultant Phone #	919-302-6799
Sampler	Aaron Dayton 734-604-1767

④ Matrix: Sediment; Ground; Surface ☒; Potable; NPDES; Water; Air; Soil; Oil

⑤ Analyses Requested / Preservation Code: VOC 8260B (H); PAH-8270 SIM; 8 RCRA Metals + Ni, V, Ca, Mg, hardness (N); HEM (oil and grease) (H)

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

② Sample Identification

Sample Identification	Date	Time	③ Grab	Composite	Soil	Water	Oil	Total # of Containers	VOC 8260B	PAH-8270 SIM	8 RCRA Metals+Ni,V,Ca,Mg	HEM (oil and grease)
WS-003 (Surface) 042413	4/24/13	0855	X			X		8	X	X	X	X
WS-019 (Surface) 042413	↓	0935	↓			↓		8	X	X	X	X
WS-002 (surface) 042413	↓	1030	↓			↓		8	X	X	X	X
WS-BKG-001 (surface) 042413	↓	1110	↓			↓		8	X	X	X	X
WS-005 (Surface) 042413	↓	1140	↓			↓		8	X	X	X	X
WS-008 (Surface) 042413	↓	1215	↓			↓		8	X	X	X	X
WS-001 (Surface) 042413	↓	1405	↓			↓		8	X	X	X	X
WS-001 (~~Surface~~ 0.5-1.0) 042413	↓	1410	↓			↓		8	X	X	X	X
WS-004 (Surface) 042413	↓	1435	↓			↓		8	X	X	X	X
WS-004 (0.5-1.0) 042413	↓	1440	↓			↓		8	X	X	X	X
WS-007 (Surface) 042413	↓	1510	↓			↓		8	X	X	X	X
WS-007 (0.5-1.0) 042413	↓	1515	↓			↓		8	X	X	X	X

⑦ Turnaround Time Requested (TAT) (please circle)
Standard 5 day 4 day
72 hour 48 hour (24 hour) ← circled

⑧ Data Package (circle if required)
Type I - Full
Type VI (Raw Data)
NJ Reduced
Other ______

EDD (circle if required)
Locus EIM (default)
Other ______

⑨

Relinquished by	Date	Time	Received by	Date	Time
Aaron Dayton	4/24/13	1845			
Relinquished by Commercial Carrier: UPS ___ (FedEx) ← circled ___ Other ___			Deborah Nesll	4/25/13	0930

Temperature Upon Receipt 1.6-5.9 °C
Custody Seals Intact? (Yes) ← circled No

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

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ExxonMobil Analysis Request/Chain of Custody

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Acct. # 14739 Group # 1385424 Sample # 7034044-62

For Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

Pg 42

SCR#: _____

1 Client Information

Facility #/SID	Mayflower Pipeline Incident
Site Address	Mayflower, AR
ExxonMobil PM	Scott Bushroe
Cost Center/AFE	
Consultant/Office	ARCADIS
Consultant PM	Steve Barrick
Consultant Phone #	919-302-6799
Sampler	Aara Dayton 734-604-1707

4 Matrix

Sediment ☐ Soil ☐ | Ground ☐ Potable ☐ Surface ☒ NPDES ☐ Water | Air ☐ Oil ☐

5 Analyses Requested

Preservation Code

Preservation Codes

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

6 Remarks

Data analysis questions - Lyndi Mott - ARCADIS

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Total # of Containers	VOCs 8260B	PAH-8270 SIM	8 RCRA Metals-As, V, Ca, Mg, Na	HEM (oil and grease)
WS-006 (Surface) 042413	4/24/13	1540	X		8	X	X	X	X
WS-006 (0.5-1.0) 042413		1545			8	X	X	X	X
WS-DUP-12-042413		—			8	X	X	X	X
WS-TB21-042413		—			3	X			
WS-002 (Surface) MS 042413		1030			8	X	X	X	X
WS-002 (Surface) MSD 042413		1030			8	X	X	X	X

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 (9)
Aara Dayton	4/24/13	1695			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS ___ FedEx ___ Other ___			Received by Deborah Nesbit	4/25/13	0930

Temperature Upon Receipt 1.6-5.9 °C

Custody Seals Intact? Yes No

Rachel L. Kreamer A# 14739, Gr. 1385424, LLHs 7034044-62

From: Rachel L. Kreamer
Sent: Thursday, April 25, 2013 1:30 PM
To: 'Mott, Lyndi'
Cc: Kathy Klinefelter
Subject: Surface waters Received 4/25/13

Attachments: 20130425132513315.pdf

20130425132513315.pdf (977 KB)...

Lyndi,

Attached are the chains and documentation logs from surface waters received this morning. Please note that one of the HEM bottles from location WS-004(Surface) was received broken. If we should run into problems and need to repeat the analysis for any reason we will let you know.

Thanks
Rachel

-----Original Message-----
From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Thursday, April 25, 2013 1:25 PM
To: Rachel L. Kreamer
Subject:

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

Scan Date: 04.25.2013 13:25:13 (-0400)
Queries to: 39Scanner@lancasterlabs.com

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Environmental Sample Administration Receipt Documentation Log

1385424

Client/Project: XOM Mayflower

Date of Receipt: 4/25/13

Time of Receipt: 0930

Source Code: SO-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	DT121	3.8	TB	WI	Y	B	
2	1396	3.9	ST	↓	↓	↓	
3	DT121	1.7	TB	↓	↓	↓	
4	DT121	1.6	↓	↓	↓	↓	
5	↓	5.7	↓	↓	↓	↓	
6	↓	4.2	↓	↓	↓	↓	

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

Paperwork Discrepancy/Unpacking Problems:

WS 004 SURFACE : 1 0.6 bottle rec'd broken

Unpacker Signature/Emp#: DaNeslund /208 **Date/Time:** 4/25/13 0945

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2174.06

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Environmental Sample Administration Receipt Documentation Log

1385424

Client/Project: XOM Mayflower

Date of Receipt: 4/25/13

Time of Receipt: 0930

Source Code: SO-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
1x	1396	5.9	TB	WI	Y	B	
2							
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: DMeslund /208 **Date/Time:** 4/25/13 0945

Issued by Dept. 6042 Management

2174.06

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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.