

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

May 02, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 04/29/2013

Group Number: 1386188

SDG: PEG84

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LLI)

WS-003(SURFACE)042813 Grab Surface Water	7038401
WS-002(SURFACE)042813 Grab Surface Water	7038402
WS-BKG-001(SURFACE)042813 Grab Surface Water	7038403
WS-005(SURFACE)042813 Grab Surface Water	7038404
WS-005(SURFACE)MSD042813 Grab Surface Water	7038405
WS-005(SURFACE)MSD042813 Grab Surface Water	7038406
WS-005(SURFACE)DUP042813 Grab Surface Water	7038407
WS-008(SURFACE)042813 Grab Surface Water	7038408
WS-001(SURFACE)042813 Grab Surface Water	7038409
WS-001(0.5-1.0)042813 Grab Surface Water	7038410
WS-004(SURFACE)042813 Grab Surface Water	7038411
WS-004(0.5-1.0)042813 Grab Surface Water	7038412
WS-007(SURFACE)042813 Grab Surface Water	7038413
WS-007(0.5-1.0)042813 Grab Surface Water	7038414
WS-006(SURFACE)042813 Grab Surface Water	7038415
WS-006(0.5-1.0)042813 Grab Surface Water	7038416
WS-TB-26-042813 Water	7038417

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

ELECTRONIC ARCADIS

COPY TO

Attn: Stephen Barrick

ELECTRONIC ARCADIS

COPY TO

Attn: Lyndi Mott

ELECTRONIC ExxonMobil

COPY TO

Attn: Scott Bushroe

ELECTRONIC ExxonMobil
COPY TO
ELECTRONIC ARCADIS
COPY TO

Attn: Michael J. Firth

Attn: Emily Leamer

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1386188

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 8270C SIM, GC/MS Semivolatiles**

Batch #: 13119WAL026 (Sample number(s): 7038401-7038406, 7038408-7038410, 7038415 UNSPK: 7038404)

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

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

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7038401, 7038404, 7038409, 7038410, 7038415

Batch #: 13121WAB026 (Sample number(s): 7038413-7038414, 7038416)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7038413, 7038414, 7038416

Sample #s: 7038413, 7038414

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis. The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Sample #s: 7038408

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
phenanthrene

Sample #s: 7038401, 7038404, 7038409, 7038410, 7038415

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

Sample #s: 7038416

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.
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

Sample Description: WS-003 (SURFACE) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038401
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 08:40 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF03S SDG#: PEG84-01

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

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

Sample Description: WS-003 (SURFACE) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038401
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 08:40 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF03S SDG#: PEG84-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	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	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	14.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0219	0.00033	0.0050	1

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

Sample Description: WS-003 (SURFACE) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038401
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 08:40 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF03S SDG#: PEG84-01

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	3.05	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	1.56	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0012 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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131211AA	05/01/2013 12:46	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 12:46	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAL026	04/30/2013 17:49	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAL026	04/29/2013 17:45	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131206256004	04/30/2013 22:12	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131201848001	04/30/2013 20:31	John P Hook	1
07046	Barium	SW-846 6010B	1	131201848001	04/30/2013 20:31	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131201848001	04/30/2013 20:31	John P Hook	1
01750	Calcium	SW-846 6010B	1	131201848001	04/30/2013 20:31	John P Hook	1
07051	Chromium	SW-846 6010B	1	131201848001	04/30/2013 20:31	John P Hook	1
07055	Lead	SW-846 6010B	1	131201848001	04/30/2013 20:31	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131201848001	04/30/2013 20:31	John P Hook	1
07061	Nickel	SW-846 6010B	1	131201848001	04/30/2013 20:31	John P Hook	1
07036	Selenium	SW-846 6010B	1	131201848001	04/30/2013 20:31	John P Hook	1
07066	Silver	SW-846 6010B	1	131201848001	04/30/2013 20:31	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131201848001	04/30/2013 20:31	John P Hook	1
00259	Mercury	SW-846 7470A	1	131205713001	05/01/2013 07:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131201848001	04/30/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131205713001	04/30/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-002 (SURFACE) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038402
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF02S SDG#: PEG84-02

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

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

Sample Description: WS-002 (SURFACE) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038402
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF02S SDG#: PEG84-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	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	13.9	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	0.0185	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.03	0.0640	0.200	1

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

Sample Description: WS-002 (SURFACE) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038402
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF02S SDG#: PEG84-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.55	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

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	I131211AA	05/01/2013 13:06	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 13:06	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAL026	04/30/2013 18:16	Chad A Moline	1
10470	BNW Water Extraction (SIM)	SW-846 3510C	1	13119WAL026	04/29/2013 17:45	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131206256004	04/30/2013 22:12	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131201848001	04/30/2013 20:35	John P Hook	1
07046	Barium	SW-846 6010B	1	131201848001	04/30/2013 20:35	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131201848001	04/30/2013 20:35	John P Hook	1
01750	Calcium	SW-846 6010B	1	131201848001	04/30/2013 20:35	John P Hook	1
07051	Chromium	SW-846 6010B	1	131201848001	04/30/2013 20:35	John P Hook	1
07055	Lead	SW-846 6010B	1	131201848001	04/30/2013 20:35	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131201848001	04/30/2013 20:35	John P Hook	1
07061	Nickel	SW-846 6010B	1	131201848001	04/30/2013 20:35	John P Hook	1
07036	Selenium	SW-846 6010B	1	131201848001	04/30/2013 20:35	John P Hook	1
07066	Silver	SW-846 6010B	1	131201848001	04/30/2013 20:35	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131201848001	04/30/2013 20:35	John P Hook	1
00259	Mercury	SW-846 7470A	1	131205713001	05/01/2013 07:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131201848001	04/30/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131205713001	04/30/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-BKG-001(SURFACE) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038403
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:25 by JO

ExxonMobil

Submitted: 04/29/2013 11:25

Mobil Pipeline Company

Reported: 05/02/2013 18:20

PO Box 4416

Houston TX 77210-4416

MFB1S SDG#: PEG84-03

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

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

Sample Description: WS-BKG-001(SURFACE) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038403
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:25 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MFB1S SDG#: PEG84-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	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	mg/l	
06256	Total Hardness as CaCO3	471-34-1	20.9	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0384	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.53	0.0640	0.200	1

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

Sample Description: WS-BKG-001(SURFACE)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038403
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:25 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MFB1S SDG#: PEG84-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.73	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0015 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131211AA	05/01/2013 13:27	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 13:27	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAL026	04/30/2013 18:43	Chad A Moline	1
10470	BNW Water Extraction (SIM)	SW-846 3510C	1	13119WAL026	04/29/2013 17:45	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131206256004	04/30/2013 22:12	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131201848001	04/30/2013 20:46	John P Hook	1
07046	Barium	SW-846 6010B	1	131201848001	04/30/2013 20:46	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131201848001	04/30/2013 20:46	John P Hook	1
01750	Calcium	SW-846 6010B	1	131201848001	04/30/2013 20:46	John P Hook	1
07051	Chromium	SW-846 6010B	1	131201848001	04/30/2013 20:46	John P Hook	1
07055	Lead	SW-846 6010B	1	131201848001	04/30/2013 20:46	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131201848001	04/30/2013 20:46	John P Hook	1
07061	Nickel	SW-846 6010B	1	131201848001	04/30/2013 20:46	John P Hook	1
07036	Selenium	SW-846 6010B	1	131201848001	04/30/2013 20:46	John P Hook	1
07066	Silver	SW-846 6010B	1	131201848001	04/30/2013 20:46	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131201848001	04/30/2013 20:46	John P Hook	1
00259	Mercury	SW-846 7470A	1	131205713001	05/01/2013 07:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131201848001	04/30/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131205713001	04/30/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-005(SURFACE)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038404
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF05S SDG#: PEG84-04BKG

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

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

Sample Description: WS-005(SURFACE)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038404
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF05S SDG#: PEG84-04BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.1 J	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	14.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0178	0.00033	0.0050	1

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

Sample Description: WS-005(SURFACE)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038404
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF05S SDG#: PEG84-04BKG

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	3.22	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	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

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	I131211AA	05/01/2013 11:21	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 11:21	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAL026	04/30/2013 15:34	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAL026	04/29/2013 17:45	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131206256004	04/30/2013 22:12	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131201848001	04/30/2013 20:09	John P Hook	1
07046	Barium	SW-846 6010B	1	131201848001	04/30/2013 20:09	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131201848001	04/30/2013 20:09	John P Hook	1
01750	Calcium	SW-846 6010B	1	131201848001	04/30/2013 20:09	John P Hook	1
07051	Chromium	SW-846 6010B	1	131201848001	04/30/2013 20:09	John P Hook	1
07055	Lead	SW-846 6010B	1	131201848001	04/30/2013 20:09	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131201848001	04/30/2013 20:09	John P Hook	1
07061	Nickel	SW-846 6010B	1	131201848001	04/30/2013 20:09	John P Hook	1
07036	Selenium	SW-846 6010B	1	131201848001	04/30/2013 20:09	John P Hook	1
07066	Silver	SW-846 6010B	1	131201848001	04/30/2013 20:09	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131201848001	04/30/2013 20:09	John P Hook	1
00259	Mercury	SW-846 7470A	1	131205713001	05/01/2013 07:10	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131201848001	04/30/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131205713001	04/30/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-005(SURFACE)MS042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038405
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:45 by JO

ExxonMobil

Submitted: 04/29/2013 11:25

Mobil Pipeline Company

Reported: 05/02/2013 18:20

PO Box 4416

Houston TX 77210-4416

MF05S SDG#: PEG84-04MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	38	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.0	0.1	0.5	1
02898	Benzene	71-43-2	5.2	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.2	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.2	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.2	0.1	0.5	1
02898	Bromoform	75-25-2	4.9	0.1	0.5	1
02898	Bromomethane	74-83-9	4.7	0.1	0.5	1
02898	2-Butanone	78-93-3	40	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	5.5	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.9	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.4	0.1	0.5	1
02898	Chloroethane	75-00-3	4.5	0.1	0.5	1
02898	Chloroform	67-66-3	5.3	0.1	0.5	1
02898	Chloromethane	74-87-3	4.3	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	5.4	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.0	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.1	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.1	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.3	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.5	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.4	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.1	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	5.3	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	5.4	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.3	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.1	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.1	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.3	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.5	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.7	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.6	0.1	0.5	1
02898	Ethyl ether	60-29-7	3.8	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.6	0.1	0.5	1
02898	Freon 113	76-13-1	5.6	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.5	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.7	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	4.8	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	24	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.2	0.2	0.5	1

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

Sample Description: WS-005(SURFACE)MS042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038405
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF05S SDG#: PEG84-04MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.5	0.1	0.5	1
02898	Styrene	100-42-5	5.6	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.5	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	5.8	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	28	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	5.0	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.1	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	5.3	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.4	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.2	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	4.6	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	17	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.92	0.010	0.050	1
08357	Acenaphthylene	208-96-8	1.0	0.010	0.050	1
08357	Anthracene	120-12-7	0.69	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	0.88	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	0.67	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	0.86	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	0.77	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	0.87	0.010	0.050	1
08357	Chrysene	218-01-9	0.88	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	0.72	0.010	0.050	1
08357	Fluoranthene	206-44-0	1.0	0.010	0.050	1
08357	Fluorene	86-73-7	0.98	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.010	0.050	1
08357	Naphthalene	91-20-3	1.1	0.030	0.050	1
08357	Phenanthrene	85-01-8	1.1	0.030	0.050	1
08357	Pyrene	129-00-0	0.97	0.010	0.050	1
Metals	SM 2340 B-1997	mg/l	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	mg/l	
07035	Arsenic	7440-38-2	0.151	0.0068	0.0200	1
07046	Barium	7440-39-3	2.06	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0503	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.26	0.0640	0.200	1

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

Sample Description: WS-005(SURFACE)MS042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038405
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF05S SDG#: PEG84-04MS

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	0.201	0.0011	0.0150	1
07055	Lead	7439-92-1	0.154	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.53	0.0606	0.100	1
07061	Nickel	7440-02-0	0.524	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.148	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0493	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.504	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

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	I131211AA	05/01/2013 11:43	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 11:43	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAL026	04/30/2013 16:01	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13119WAL026	04/29/2013 17:45	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131206256004	04/30/2013 22:12	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131201848001	04/30/2013 20:20	John P Hook	1
07046	Barium	SW-846 6010B	1	131201848001	04/30/2013 20:20	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131201848001	04/30/2013 20:20	John P Hook	1
01750	Calcium	SW-846 6010B	1	131201848001	04/30/2013 20:20	John P Hook	1
07051	Chromium	SW-846 6010B	1	131201848001	04/30/2013 20:20	John P Hook	1
07055	Lead	SW-846 6010B	1	131201848001	04/30/2013 20:20	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131201848001	04/30/2013 20:20	John P Hook	1
07061	Nickel	SW-846 6010B	1	131201848001	04/30/2013 20:20	John P Hook	1
07036	Selenium	SW-846 6010B	1	131201848001	04/30/2013 20:20	John P Hook	1
07066	Silver	SW-846 6010B	1	131201848001	04/30/2013 20:20	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131201848001	04/30/2013 20:20	John P Hook	1
00259	Mercury	SW-846 7470A	1	131205713001	05/01/2013 07:14	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131201848001	04/30/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131205713001	04/30/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-005(SURFACE)MSD042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038406
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF05S SDG#: PEG84-04MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	37	3.0	5.0	1
02898	Allyl Chloride	107-05-1	5.1	0.1	0.5	1
02898	Benzene	71-43-2	5.2	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.2	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.1	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.2	0.1	0.5	1
02898	Bromoform	75-25-2	4.9	0.1	0.5	1
02898	Bromomethane	74-83-9	4.6	0.1	0.5	1
02898	2-Butanone	78-93-3	39	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.3	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.5	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.6	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.8	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.4	0.1	0.5	1
02898	Chloroethane	75-00-3	4.4	0.1	0.5	1
02898	Chloroform	67-66-3	5.3	0.1	0.5	1
02898	Chloromethane	74-87-3	4.2	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.3	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.3	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.1	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.0	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.2	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	5.4	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.3	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	4.0	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	5.2	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	5.4	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	5.2	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	5.1	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	5.5	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.8	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.6	0.1	0.5	1
02898	Ethyl ether	60-29-7	3.8	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	5.3	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.7	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.6	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	24	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.2	0.2	0.5	1

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

Sample Description: WS-005 (SURFACE) MSD042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038406
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF05S SDG#: PEG84-04MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	5.4	0.1	0.5	1
02898	Styrene	100-42-5	5.6	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.4	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	5.9	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	26	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	4.9	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.0	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	5.2	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.4	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.1	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.8	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.4	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.4	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.5	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	17	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.93	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.0	0.010	0.051	1
08357	Anthracene	120-12-7	0.66	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.85	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.58	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.83	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.71	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.85	0.010	0.051	1
08357	Chrysene	218-01-9	0.84	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.67	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.98	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	0.67	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.2	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.010	0.051	1
08357	Naphthalene	91-20-3	1.1	0.031	0.051	1
08357	Phenanthrene	85-01-8	1.1	0.031	0.051	1
08357	Pyrene	129-00-0	0.92	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	32.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.149	0.0068	0.0200	1
07046	Barium	7440-39-3	2.03	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0500	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.23	0.0640	0.200	1

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

Sample Description: WS-005 (SURFACE) MSD042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038406
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF05S SDG#: PEG84-04MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals			mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.199	0.0011	0.0150	1
07055	Lead	7439-92-1	0.157	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.53	0.0606	0.100	1
07061	Nickel	7440-02-0	0.521	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.147	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0488	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.502	0.0013	0.0050	1
SW-846 6010B			mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00094	0.000070	0.00020	1
SW-846 7470A			mg/l	mg/l	mg/l	

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131211AA	05/01/2013 12:04	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 12:04	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAL026	04/30/2013 16:28	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13119WAL026	04/29/2013 17:45	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131206256004	04/30/2013 22:12	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131201848001	04/30/2013 20:24	John P Hook	1
07046	Barium	SW-846 6010B	1	131201848001	04/30/2013 20:24	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131201848001	04/30/2013 20:24	John P Hook	1
01750	Calcium	SW-846 6010B	1	131201848001	04/30/2013 20:24	John P Hook	1
07051	Chromium	SW-846 6010B	1	131201848001	04/30/2013 20:24	John P Hook	1
07055	Lead	SW-846 6010B	1	131201848001	04/30/2013 20:24	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131201848001	04/30/2013 20:24	John P Hook	1
07061	Nickel	SW-846 6010B	1	131201848001	04/30/2013 20:24	John P Hook	1
07036	Selenium	SW-846 6010B	1	131201848001	04/30/2013 20:24	John P Hook	1
07066	Silver	SW-846 6010B	1	131201848001	04/30/2013 20:24	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131201848001	04/30/2013 20:24	John P Hook	1
00259	Mercury	SW-846 7470A	1	131205713001	05/01/2013 07:16	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131201848001	04/30/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131205713001	04/30/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-005 (SURFACE) DUP042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038407
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 09:45 by JO

ExxonMobil

Submitted: 04/29/2013 11:25

Mobil Pipeline Company

Reported: 05/02/2013 18:20

PO Box 4416

Houston TX 77210-4416

MF05S SDG#: PEG84-04DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	14.5	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0177	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.19	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	1.58	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131206256004	04/30/2013 22:12	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131201848001	04/30/2013 20:16	John P Hook	1
07046	Barium	SW-846 6010B	1	131201848001	04/30/2013 20:16	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131201848001	04/30/2013 20:16	John P Hook	1
01750	Calcium	SW-846 6010B	1	131201848001	04/30/2013 20:16	John P Hook	1
07051	Chromium	SW-846 6010B	1	131201848001	04/30/2013 20:16	John P Hook	1
07055	Lead	SW-846 6010B	1	131201848001	04/30/2013 20:16	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131201848001	04/30/2013 20:16	John P Hook	1
07061	Nickel	SW-846 6010B	1	131201848001	04/30/2013 20:16	John P Hook	1
07036	Selenium	SW-846 6010B	1	131201848001	04/30/2013 20:16	John P Hook	1
07066	Silver	SW-846 6010B	1	131201848001	04/30/2013 20:16	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131201848001	04/30/2013 20:16	John P Hook	1
00259	Mercury	SW-846 7470A	1	131205713001	05/01/2013 07:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131201848001	04/30/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131205713001	04/30/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-008(SURFACE)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038408
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 10:15 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF08S SDG#: PEG84-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	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	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) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038408
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 10:15 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF08S SDG#: PEG84-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	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	0.1 J	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	0.015 J	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	0.020 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	0.061	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.069	0.010	0.051	1
08357	Naphthalene	91-20-3	0.039 J	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.034 J	0.031	0.051	1
08357	Pyrene	129-00-0	0.019 J	0.010	0.051	1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:						
phenanthrene						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	33.7	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	

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

Sample Description: WS-008 (SURFACE) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038408
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 10:15 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF08S SDG#: PEG84-05

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	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0369	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.41	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	3.68	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0051 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	0.0030 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

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	I131211AA	05/01/2013 13:48	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 13:48	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAL026	04/30/2013 19:10	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAL026	04/29/2013 17:45	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131206256004	04/30/2013 22:12	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131201848001	04/30/2013 20:49	John P Hook	1
07046	Barium	SW-846 6010B	1	131201848001	04/30/2013 20:49	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131201848001	04/30/2013 20:49	John P Hook	1
01750	Calcium	SW-846 6010B	1	131201848001	04/30/2013 20:49	John P Hook	1
07051	Chromium	SW-846 6010B	1	131201848001	04/30/2013 20:49	John P Hook	1
07055	Lead	SW-846 6010B	1	131201848001	04/30/2013 20:49	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131201848001	04/30/2013 20:49	John P Hook	1
07061	Nickel	SW-846 6010B	1	131201848001	04/30/2013 20:49	John P Hook	1
07036	Selenium	SW-846 6010B	1	131201848001	04/30/2013 20:49	John P Hook	1
07066	Silver	SW-846 6010B	1	131201848001	04/30/2013 20:49	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131201848001	04/30/2013 20:49	John P Hook	1
00259	Mercury	SW-846 7470A	1	131205713001	05/01/2013 07:18	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131201848001	04/30/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131205713001	04/30/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-001(SURFACE)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038409
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 10:40 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF01S SDG#: PEG84-06

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

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

Sample Description: WS-001(SURFACE)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038409
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 10:40 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF01S SDG#: PEG84-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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 CaCO ₃	471-34-1	15.6	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0376	0.00033	0.0050	1

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

Sample Description: WS-001(SURFACE)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038409
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 10:40 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF01S SDG#: PEG84-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.35	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0023 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.75	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	0.0041 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

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	I131211AA	05/01/2013 14:09	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 14:09	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAL026	04/30/2013 19:37	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAL026	04/29/2013 17:45	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131206256004	04/30/2013 22:12	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131201848001	04/30/2013 20:53	John P Hook	1
07046	Barium	SW-846 6010B	1	131201848001	04/30/2013 20:53	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131201848001	04/30/2013 20:53	John P Hook	1
01750	Calcium	SW-846 6010B	1	131201848001	04/30/2013 20:53	John P Hook	1
07051	Chromium	SW-846 6010B	1	131201848001	04/30/2013 20:53	John P Hook	1
07055	Lead	SW-846 6010B	1	131201848001	04/30/2013 20:53	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131201848001	04/30/2013 20:53	John P Hook	1
07061	Nickel	SW-846 6010B	1	131201848001	04/30/2013 20:53	John P Hook	1
07036	Selenium	SW-846 6010B	1	131201848001	04/30/2013 20:53	John P Hook	1
07066	Silver	SW-846 6010B	1	131201848001	04/30/2013 20:53	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131201848001	04/30/2013 20:53	John P Hook	1
00259	Mercury	SW-846 7470A	1	131205713001	05/01/2013 07:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131201848001	04/30/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131205713001	04/30/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038410
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 10:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF010 SDG#: PEG84-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	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)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038410
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 10:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF010 SDG#: PEG84-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	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 CaCO ₃	471-34-1	15.6	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0342	0.00033	0.0050	1

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

Sample Description: WS-001(0.5-1.0)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038410
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 10:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF010 SDG#: PEG84-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.36	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0024 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.74	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0028 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	0.0043 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

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	I131211AA	05/01/2013 14:30	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 14:30	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAL026	04/30/2013 20:05	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAL026	04/29/2013 17:45	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131206256004	04/30/2013 22:12	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131201848001	04/30/2013 20:56	John P Hook	1
07046	Barium	SW-846 6010B	1	131201848001	04/30/2013 20:56	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131201848001	04/30/2013 20:56	John P Hook	1
01750	Calcium	SW-846 6010B	1	131201848001	04/30/2013 20:56	John P Hook	1
07051	Chromium	SW-846 6010B	1	131201848001	04/30/2013 20:56	John P Hook	1
07055	Lead	SW-846 6010B	1	131201848001	04/30/2013 20:56	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131201848001	04/30/2013 20:56	John P Hook	1
07061	Nickel	SW-846 6010B	1	131201848001	04/30/2013 20:56	John P Hook	1
07036	Selenium	SW-846 6010B	1	131201848001	04/30/2013 20:56	John P Hook	1
07066	Silver	SW-846 6010B	1	131201848001	04/30/2013 20:56	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131201848001	04/30/2013 20:56	John P Hook	1
00259	Mercury	SW-846 7470A	1	131205713001	05/01/2013 07:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131201848001	04/30/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131205713001	04/30/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-004(SURFACE)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038411
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 10:55 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF04S SDG#: PEG84-08

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	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	6.9	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-004 (SURFACE) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038411
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 10:55 by JO

ExxonMobil

Submitted: 04/29/2013 11:25

Mobil Pipeline Company

Reported: 05/02/2013 18:20

PO Box 4416

Houston TX 77210-4416

MF04S SDG#: PEG84-08

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	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	1.2	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.1 J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.2 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.6	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	I131211AA	05/01/2013 14:51	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 14:51	Jason M Long	1

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

Sample Description: WS-004(0.5-1.0)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038412
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 11:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF040 SDG#: PEG84-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	6.3	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-004(0.5-1.0)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038412
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 11:00 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF040 SDG#: PEG84-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	1.8	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	0.2 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.9	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	I131211AA	05/01/2013 15:12	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 15:12	Jason M Long	1

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

Sample Description: WS-007(SURFACE)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038413
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 11:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF07S SDG#: PEG84-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	6.6	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	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) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038413
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 11:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF07S SDG#: PEG84-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.7	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.2 J	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.3 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.7	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	0.019 J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.053	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.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	0.043 J	0.010	0.051	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	41.8	0.064	0.20

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

Sample Description: WS-007 (SURFACE) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038413
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 11:20 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF07S SDG#: PEG84-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0165 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.280	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.01	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0367	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0299	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.89	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0312	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	0.0557	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131211AA	05/01/2013 15:33	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 15:33	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/02/2013 15:18	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131206256004	04/30/2013 22:12	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131201848001	04/30/2013 21:00	John P Hook	1
07046	Barium	SW-846 6010B	1	131201848001	04/30/2013 21:00	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131201848001	04/30/2013 21:00	John P Hook	1
01750	Calcium	SW-846 6010B	1	131201848001	04/30/2013 21:00	John P Hook	1
07051	Chromium	SW-846 6010B	1	131201848001	04/30/2013 21:00	John P Hook	1
07055	Lead	SW-846 6010B	1	131201848001	04/30/2013 21:00	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131201848001	04/30/2013 21:00	John P Hook	1
07061	Nickel	SW-846 6010B	1	131201848001	04/30/2013 21:00	John P Hook	1
07036	Selenium	SW-846 6010B	1	131201848001	04/30/2013 21:00	John P Hook	1
07066	Silver	SW-846 6010B	1	131201848001	04/30/2013 21:00	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131201848001	04/30/2013 21:00	John P Hook	1
00259	Mercury	SW-846 7470A	1	131205713001	05/01/2013 07:29	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131201848001	04/30/2013 10:45	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131205713001	04/30/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038414
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 11:30 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF070 SDG#: PEG84-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	7.8	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-007(0.5-1.0)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038414
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 11:30 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF070 SDG#: PEG84-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.8	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	0.7	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.8	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.023 J	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	0.011 J	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	0.030 J	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	0.037 J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.10	0.010	0.051	1
08357	Fluorene	86-73-7	0.029 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	0.011 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.013 J	0.010	0.051	1
08357	Naphthalene	91-20-3	0.031 J	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	0.090	0.010	0.051	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	40.6	0.064	0.20

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

Sample Description: WS-007(0.5-1.0)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038414
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 11:30 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF070 SDG#: PEG84-11

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	
07035	Arsenic	7440-38-2	0.0169 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.282	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.05	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0333	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0291	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.59	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0284	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	0.0516	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
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131211AA	05/01/2013 15:54	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 15:54	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/02/2013 15:47	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131206256004	04/30/2013 22:12	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131201848001	04/30/2013 21:04	John P Hook	1
07046	Barium	SW-846 6010B	1	131201848001	04/30/2013 21:04	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131201848001	04/30/2013 21:04	John P Hook	1
01750	Calcium	SW-846 6010B	1	131201848001	04/30/2013 21:04	John P Hook	1
07051	Chromium	SW-846 6010B	1	131201848001	04/30/2013 21:04	John P Hook	1
07055	Lead	SW-846 6010B	1	131201848001	04/30/2013 21:04	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131201848001	04/30/2013 21:04	John P Hook	1
07061	Nickel	SW-846 6010B	1	131201848001	04/30/2013 21:04	John P Hook	1
07036	Selenium	SW-846 6010B	1	131201848001	04/30/2013 21:04	John P Hook	1
07066	Silver	SW-846 6010B	1	131201848001	04/30/2013 21:04	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131201848001	04/30/2013 21:04	John P Hook	1
00259	Mercury	SW-846 7470A	1	131205713001	05/01/2013 07:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131201848001	04/30/2013 10:45	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131205713001	04/30/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-006 (SURFACE) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038415
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 12:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF06S SDG#: PEG84-12

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

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

Sample Description: WS-006 (SURFACE) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038415
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 12:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF06S SDG#: PEG84-12

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	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	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 CaCO ₃	471-34-1	14.6	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0267	0.00033	0.0050	1

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

Sample Description: WS-006 (SURFACE) 042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038415
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 12:45 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF06S SDG#: PEG84-12

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	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.14	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0021 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.65	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	0.0028 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

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	I131211AA	05/01/2013 16:15	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 16:15	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13119WAL026	05/01/2013 07:18	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13119WAL026	04/29/2013 17:45	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131206256004	04/30/2013 22:12	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131201848001	04/30/2013 21:07	John P Hook	1
07046	Barium	SW-846 6010B	1	131201848001	04/30/2013 21:07	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131201848001	04/30/2013 21:07	John P Hook	1
01750	Calcium	SW-846 6010B	1	131201848001	04/30/2013 21:07	John P Hook	1
07051	Chromium	SW-846 6010B	1	131201848001	04/30/2013 21:07	John P Hook	1
07055	Lead	SW-846 6010B	1	131201848001	04/30/2013 21:07	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131201848001	04/30/2013 21:07	John P Hook	1
07061	Nickel	SW-846 6010B	1	131201848001	04/30/2013 21:07	John P Hook	1
07036	Selenium	SW-846 6010B	1	131201848001	04/30/2013 21:07	John P Hook	1
07066	Silver	SW-846 6010B	1	131201848001	04/30/2013 21:07	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131201848001	04/30/2013 21:07	John P Hook	1
00259	Mercury	SW-846 7470A	1	131205713001	05/01/2013 07:33	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131201848001	04/30/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131205713001	04/30/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038416
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 12:50 by JO

ExxonMobil

Submitted: 04/29/2013 11:25

Mobil Pipeline Company

Reported: 05/02/2013 18:20

PO Box 4416

Houston TX 77210-4416

MF060 SDG#: PEG84-13

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

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

Sample Description: WS-006(0.5-1.0)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038416
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 12:50 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF060 SDG#: PEG84-13

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	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	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.

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	15.3	0.064	0.20

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

Sample Description: WS-006(0.5-1.0)042813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038416
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013 12:50 by JO

ExxonMobil

Mobil Pipeline Company

Submitted: 04/29/2013 11:25

PO Box 4416

Reported: 05/02/2013 18:20

Houston TX 77210-4416

MF060 SDG#: PEG84-13

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	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0299	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.32	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0023 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.71	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0030 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	0.0026 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

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	I131211AA	05/01/2013 16:35	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 16:35	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13121WAB026	05/02/2013 16:17	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13121WAB026	05/01/2013 14:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131206256004	04/30/2013 22:12	John P Hook	1
07035	Arsenic	SW-846 6010B	1	131201848001	04/30/2013 21:11	John P Hook	1
07046	Barium	SW-846 6010B	1	131201848001	04/30/2013 21:11	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131201848001	04/30/2013 21:11	John P Hook	1
01750	Calcium	SW-846 6010B	1	131201848001	04/30/2013 21:11	John P Hook	1
07051	Chromium	SW-846 6010B	1	131201848001	04/30/2013 21:11	John P Hook	1
07055	Lead	SW-846 6010B	1	131201848001	04/30/2013 21:11	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131201848001	04/30/2013 21:11	John P Hook	1
07061	Nickel	SW-846 6010B	1	131201848001	04/30/2013 21:11	John P Hook	1
07036	Selenium	SW-846 6010B	1	131201848001	04/30/2013 21:11	John P Hook	1
07066	Silver	SW-846 6010B	1	131201848001	04/30/2013 21:11	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131201848001	04/30/2013 21:11	John P Hook	1
00259	Mercury	SW-846 7470A	1	131205713001	05/01/2013 07:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131201848001	04/30/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131205713001	04/30/2013 15:40	Nelli S Markaryan	1

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

Sample Description: WS-TB-26-042813 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038417
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013

ExxonMobil

Submitted: 04/29/2013 11:25

Mobil Pipeline Company

Reported: 05/02/2013 18:20

PO Box 4416

Houston TX 77210-4416

MTB26 SDG#: PEG84-14TB*

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

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

Sample Description: WS-TB-26-042813 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7038417
LLI Group # 1386188
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/28/2013

ExxonMobil

Submitted: 04/29/2013 11:25

Mobil Pipeline Company

Reported: 05/02/2013 18:20

PO Box 4416

Houston TX 77210-4416

MTB26 SDG#: PEG84-14TB*

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I131211AA	05/01/2013 11:00	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131211AA	05/01/2013 11:00	Jason M Long	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/02/13 at 06:20 PM

Group Number: 1386188

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

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: I131211AA	Sample number(s): 7038401-7038406, 7038408-7038417								
Acetone	N.D.	3.0	5.0	ug/l	101		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	95		61-130		
Benzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	110		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	102		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	103		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	100		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	92		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	112		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	107		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	115		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	110		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	109		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	87		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	107		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	83		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	110		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	109		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	111		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	101		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	109		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	104		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	111		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	113		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	112		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	76		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	104		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	110		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	108		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	102		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	104		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	108		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	104		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	104		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	94		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	93		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	82		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	110		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	103		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: 1386188

Reported: 05/02/13 at 06:20 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Isopropylbenzene	N.D.	0.1	0.5	ug/l	112		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	113		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	101		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	107		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
Styrene	N.D.	0.1	0.5	ug/l	115		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	111		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	108		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	112		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	115		65-131		
Toluene	N.D.	0.1	0.5	ug/l	107		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	107		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	110		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	97		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	109		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	111		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	111		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	87		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	111		80-120		

Batch number: 13119WAL026

Sample number(s): 7038401-7038406, 7038408-7038410, 7038415

Acenaphthene	N.D.	0.010	0.050	ug/l	98		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	103		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	109		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	98		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	95		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	98		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	91		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	101		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	103		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	87		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	102		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	100		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	114		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	112		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	109		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	110*		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	108		71-116		

Batch number: 13121WAB026

Sample number(s): 7038413-7038414, 7038416

Acenaphthene	N.D.	0.010	0.050	ug/l	98	101	65-124	3	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	102	105	72-113	3	30
Anthracene	N.D.	0.010	0.050	ug/l	99	104	70-117	6	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	101	104	75-115	4	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	98	100	72-120	2	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	109	112	74-130	3	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	99	94	63-121	5	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	103	103	74-118	1	30
Chrysene	N.D.	0.010	0.050	ug/l	102	105	75-112	2	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	93	84	66-122	10	30
Fluoranthene	N.D.	0.010	0.050	ug/l	100	106	73-116	6	30

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1386188

Reported: 05/02/13 at 06:20 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Fluorene	N.D.	0.010	0.050	ug/l	99	95	74-115	4	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	96	90	66-122	6	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	103	108	72-114	5	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	100	106	74-119	6	30
Naphthalene	N.D.	0.030	0.050	ug/l	98	104	67-118	5	30
Phenanthrene	N.D.	0.030	0.050	ug/l	99	105	72-109	6	30
Pyrene	N.D.	0.010	0.050	ug/l	104	107	71-116	3	30

Batch number: 131201848001

Sample number(s): 7038401-7038410, 7038413-7038416

Arsenic	N.D.	0.0068	0.0200	mg/l	99		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	100		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	100		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	100		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	101		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	99		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	104		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	97		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	97		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	100		90-110		

Batch number: 131205713001

Sample number(s): 7038401-7038410, 7038413-7038416

Mercury	N.D.	0.00007	0.00020	mg/l	94		80-120		
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Sample Matrix Quality Control

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

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: I131211AA	Sample number(s): 7038401-7038406, 7038408-7038417 UNSPK: 7038404								
Acetone	102	98	57-163	5	30				
Allyl Chloride	100	101	67-139	1	30				
Benzene	104	104	87-126	0	30				
Bromobenzene	105	103	80-123	2	30				
Bromochloromethane	104	102	82-125	2	30				
Bromodichloromethane	103	103	82-133	0	30				
Bromoform	98	97	60-138	0	30				
Bromomethane	94	92	41-145	2	30				
2-Butanone	107	105	63-146	2	30				
n-Butylbenzene	109	107	83-131	2	30				
sec-Butylbenzene	111	110	84-128	1	30				
tert-Butylbenzene	110	112	84-135	2	30				
Carbon Tetrachloride	118	117	81-148	1	30				
Chlorobenzene	109	108	78-133	1	30				
Chloroethane	89	88	70-139	1	30				
Chloroform	107	106	86-136	1	30				
Chloromethane	85	85	55-152	0	30				
2-Chlorotoluene	108	106	81-120	2	30				
4-Chlorotoluene	108	106	82-119	2	30				
1,2-Dibromo-3-chloropropane	109	103	43-143	6	30				

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1386188

Reported: 05/02/13 at 06:20 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
Dibromochloromethane	100	99	79-125	1	30				
1,2-Dibromoethane	103	103	84-127	0	30				
Dibromomethane	101	100	83-126	1	30				
1,2-Dichlorobenzene	106	104	83-117	1	30				
1,3-Dichlorobenzene	110	108	81-118	2	30				
1,4-Dichlorobenzene	108	106	79-120	2	30				
Dichlorodifluoromethane	82	81	28-136	2	30				
1,1-Dichloroethane	106	106	88-136	1	30				
1,2-Dichloroethane	107	105	82-135	2	30				
1,1-Dichloroethene	114	114	83-150	0	30				
cis-1,2-Dichloroethene	106	105	82-129	0	30				
trans-1,2-Dichloroethene	109	109	88-127	0	30				
Dichlorofluoromethane	106	104	59-176	2	30				
1,2-Dichloropropane	103	104	91-126	1	30				
1,3-Dichloropropane	103	103	80-127	0	30				
2,2-Dichloropropane	107	108	80-134	1	30				
1,1-Dichloropropene	110	110	86-139	0	30				
cis-1,3-Dichloropropene	95	95	74-132	1	30				
trans-1,3-Dichloropropene	91	92	71-128	1	30				
Ethyl ether	76	76	67-127	1	30				
Ethylbenzene	112	111	80-140	1	30				
Freon 113	112	110	87-158	2	30				
Hexachlorobutadiene	109	106	65-128	3	30				
Isopropylbenzene	114	114	81-133	0	30				
p-Isopropyltoluene	113	111	84-124	2	30				
Methyl Tertiary Butyl Ether	96	97	82-132	1	30				
4-Methyl-2-Pentanone	95	95	69-149	0	30				
Methylene Chloride	104	104	84-122	0	30				
n-Propylbenzene	109	108	79-131	1	30				
Styrene	112	112	63-151	1	30				
1,1,1,2-Tetrachloroethane	110	109	87-126	1	30				
1,1,2,2-Tetrachloroethane	97	96	75-131	1	30				
Tetrachloroethene	116	117	75-129	1	30				
Tetrahydrofuran	111	106	56-154	4	30				
Toluene	109	108	83-127	1	30				
1,2,3-Trichlorobenzene	99	98	73-125	1	30				
1,2,4-Trichlorobenzene	103	101	77-120	2	30				
1,1,1-Trichloroethane	112	112	85-140	0	30				
1,1,2-Trichloroethane	105	104	85-129	1	30				
Trichloroethene	109	108	85-131	1	30				
Trichlorofluoromethane	104	102	67-161	2	30				
1,2,3-Trichloropropane	99	96	76-120	3	30				
1,2,4-Trimethylbenzene	110	108	87-126	2	30				
1,3,5-Trimethylbenzene	110	108	89-129	1	30				
Vinyl Chloride	92	91	65-151	2	30				
Xylene (Total)	112	111	81-137	1	30				

Batch number: 13119WAL026

Sample number(s): 7038401-7038406, 7038408-7038410, 7038415 UNSPK: 7038404

Acenaphthene	91	91	59-127	2	30
Acenaphthylene	101	101	33-146	2	30
Anthracene	68*	64*	69-119	3	30
Benzo(a)anthracene	87	82	67-124	4	30

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/02/13 at 06:20 PM

Group Number: 1386188

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
Benzo(a)pyrene	67	56*	64-123	16	30				
Benzo(b)fluoranthene	85	80	61-133	4	30				
Benzo(g,h,i)perylene	76	69	36-138	8	30				
Benzo(k)fluoranthene	86	82	59-128	3	30				
Chrysene	87	81	62-118	5	30				
Dibenz(a,h)anthracene	72	65	32-141	7	30				
Fluoranthene	101	95	65-123	3	30				
Fluorene	98	98	69-124	2	30				
Indeno(1,2,3-cd)pyrene	73	65	29-143	9	30				
1-Methylnaphthalene	114	114	67-117	3	30				
2-Methylnaphthalene	111	112	71-126	2	30				
Naphthalene	110	110	58-131	2	30				
Phenanthrene	107	108	67-117	3	30				
Pyrene	96	90	59-125	4	30				

Batch number: 131201848001	Sample number(s): 7038401-7038410,7038413-7038416 UNSPK: 7038404 BKG: 7038404								
Arsenic	101	99	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	102	101	78-118	1	20	0.0178	0.0177	1 (1)	20
Cadmium	101	100	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	101	100	81-118	0	20	3.22	3.19	1	20
Chromium	100	100	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	103	104	75-125	2	20	N.D.	N.D.	0 (1)	20
Magnesium	97	97	75-125	0	20	1.59	1.58	1	20
Nickel	105	104	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	99	98	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	99	98	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	101	100	90-111	0	20	N.D.	N.D.	0 (1)	20

Batch number: 131205713001	Sample number(s): 7038401-7038410,7038413-7038416 UNSPK: 7038404 BKG: 7038404								
Mercury	93	94	80-120	1	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

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

Analysis Name: NHDES VOCs 25ml purge

Batch number: I131211AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7038401	102	103	100	96
7038402	103	103	100	97
7038403	103	103	99	96
7038404	101	103	100	96
7038405	101	104	101	100
7038406	101	102	101	100
7038408	101	103	99	97
7038409	103	105	99	96
7038410	103	102	100	96

*- 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: 1386188

Reported: 05/02/13 at 06:20 PM

Surrogate Quality Control

7038411	101	103	101	98
7038412	102	103	100	99
7038413	100	104	100	99
7038414	100	104	100	98
7038415	102	101	100	95
7038416	102	103	99	95
7038417	102	102	100	96
Blank	101	100	100	95
LCS	100	97	102	98
MS	101	104	101	100
MSD	101	102	101	100

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

Analysis Name: PAHs in waters by SIM

Batch number: 13119WAL026

Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
------------------	--------------------	-------------------------

7038401	79	51*	88
7038402	90	68	95
7038403	87	62	90
7038404	84	60*	91
7038405	91	76	98
7038406	89	69	99
7038408	85	71	89
7038409	66	46*	74
7038410	67	41*	78
7038415	75	45*	81
Blank	92	89	95
LCS	91	93	99
MS	91	76	98
MSD	89	69	99

Limits:	64-120	62-141	58-134
---------	--------	--------	--------

Analysis Name: PAHs in waters by SIM

Batch number: 13121WAB026

Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
------------------	--------------------	-------------------------

7038413	52*	29*	63
7038414	59*	35*	66
7038416	74	56*	74
Blank	90	94	89
LCS	92	100	93
LCSD	96	100	96

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



Lancaster
Laboratories

Acct. # 14739 Group # 1386188 Sample # 7038401-17
For Lancaster Laboratories use only
Instructions on reverse side correspond with circled numbers.

B.1

1 Client Information				4 Matrix		5 Analyses Requested										6 Preservation Code		7 Remarks						
Facility #/SID <u>Mayflower Pipeline Incident</u>				☐ Sediment ☐ Potable ☐ Ground ☒ Surface ☐ NPDES ☐ Air ☐ Oil ☐ Water		Total # of Containers VOC's 8260B PAH 8270 SIM RCRA Metals + Ni, Pb, Cu, Ag, Cd, Cr										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		Data analysis questions: Lync Mkt ARCADIS						
Site Address <u>Mayflower, AR</u>																								
ExxonMobil PM <u>Scott Bushroe</u>		Cost Center/AFE																						
Consultant/Office <u>ARCADIS</u>																								
Consultant PM <u>Steve Barricks</u>				Consultant Phone # <u>919-302-6799</u>																				
Sampler <u>Joshua Oliver / Aaron Dayton</u>				315-852-5743																				
2 Sample Identification			3 Collected		Grab Composite		Soil		Water		Oil		Total # of Containers											
Date	Time																							
WS-003 (surface)	4/28/13	0840	X																					
WS-002 (surface)	4/28/13	0900																						
WS-316-001 (surface)	4/28/13	0925																						
WS-005 (surface)	4/28/13	0945																						
WS-005 (surface)	MSD-042813	0945																						
WS-005 (surface)	MSD-042813	0945																						
WS-008 (surface)	4/28/13	1015																						
WS-001 (surface)	4/28/13	1040																						
WS-001 (0.5-1.0)	4/28/13	1045																						
WS-004 (surface)	4/28/13	1055																						
WS-004 (0.5-1.0)	4/28/13	1100																						
WS-007 (surface)	4/28/13	1120																						
7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour <u>24 hour</u>				Relinquished by <u>Joshua Oliver</u>		Date <u>4/28/13</u>		Time <u>1500</u>		Received by		Date		Time										
				Relinquished by		Date		Time		Received by		Date		Time										
				Relinquished by		Date		Time		Received by		Date		Time										
				Relinquished by Commercial Carrier		Date		Time		Received by		Date		Time										
8 Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____				EDD (circle if required) Locus EIM (default) Other _____				UPS _____ FedEx _____ Other <u>southwest</u>		Received by <u>Kristi Leigh</u>		Date <u>4-29-13</u>		Time <u>1125</u>										
								Temperature Upon Receipt <u>1.6-1.8 °C</u>		Custody Seals Intact?		Yes <u>Yes</u> No												

P. 2



Acct. # 14739 Group # 1386188 Sample # 7038401-17
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Instructions on reverse side correspond with circled numbers.

[illegible]

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ExxonMobil Analysis Request/Chain of Custody



Lancaster
Laboratories

Acct. # 14739

Group # 1386181

Sample # 1038401-17

Instructions on reverse side correspond with circled numbers.

B.1

1 Client Information				4 Matrix		5 Analyses Requested										SCR#				
Facility #/SID <u>Mayflower Pipeline Incident</u>				☐ Sediment ☐ Potable ☐ Ground ☒ Surface ☐ NPDES ☐ Air	☐ Soil ☐ Water ☐ Oil	Preservation Code										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other				
Site Address <u>Mayflower, AR</u>						Total # of Containers <u>VOCs 8260B</u> <u>PAH 8270 SIM</u> <u>PCRA 11000 + 11001 + 11002</u>										Remarks <u>Data analysis questions:</u> <u>Lead Met</u> <u>ACRIDIS</u>				
ExxonMobil PM <u>Scott Bushroe</u>				Cost Center/AFE																
Consultant/Office <u>ARCADIS</u>				Consultant Phone # <u>919-302-6799</u>																
Consultant PM <u>Steve Barrick</u>				Sampler <u>Joshua Oliver / Aaron Doyton</u>																
2 Sample Identification				3 Collected																
				Date	Time	Grab	Composite													
WS-003 (Surface) 042813				4/28/13	0840	X		X												
WS-002 (Surface) 042813					0900				X	X	X									
WS-3KG-001 (Surface) 042813					0925				X	X	X									
WS-005 (Surface) 042813					0945				X	X	X									
WS-005 (Surface) 042813					0945				X	X	X									
WS-005 (Surface) 042813					0945				X	X	X									
WS-008 (Surface) 042813					1015				X	X	X									
WS-001 (Surface) 042813					1040				X	X	X									
WS-001 (0.5-1.0) 042813					1045				X	X	X									
WS-004 (Surface) 042813					1055				X	X	X									
WS-004 (0.5-1.0) 042813					1100				X	X	X									
WS-007 (Surface) 042813					1120				X	X	X									
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>Joshua Oliver</u>		Date <u>4/28/13</u>		Time <u>1500</u>		Received by		Date		Time						
Standard 5 day 4 day				Relinquished by		Date		Time		Received by		Date		Time						
Please analyze on a 72 hr TAT L Mott 4-29-13				Relinquished by		Date		Time		Received by		Date		Time						
72 hour 48 hour 24 hour				Relinquished by		Date		Time		Received by		Date		Time						
8 Data Package (circle if required)				EDD (circle if required)		Relinquished by Commercial Carrier		Temperature Upon Receipt _____ °C		Custody Seals Intact?		Yes		No						
Type I - Full				Locus EIM (default)		UPS FedEx Other <u>Southwest</u>														
Type VI (Raw Data)				Other _____																
NJ Reduced																				
Other _____																				

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B.2

Laboratories				Client Information		Matrix		Analyses Requested		SCR#:	
								Preservation Code			
1 Facility #/SID Mayflower Pipeline Incident Site Address Mayflower AR Exxon/Mobil PM Scott Bushloe Consultant/Office ARCADES Consultant PM Steve Barrick Sampler Joshua Oliver / Aaron Dayton				4 Matrix Sediment ☐ Ground ☐ Surface ☒ Potable ☐ NPDES ☐ Air ☐ Oil ☐		5 Analyses Requested Preservation Code H ☐ N ☐		6 Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		7 Remarks Date Analysis questions: Lyndi Mott ARCADES	
2 Sample Identification Date Time Grab Composite WS-007 (0.5-1.0) 04/28/13 1130 X WS-006 (surface) 04/28/13 1245 X WS-006 (0.5-1.0) 04/28/13 1250 X WSTB26 - 04/28/13 - X				3 Soil ☐ Water ☐		Total # of Containers VOC 8260 B PAH 8270 STA ICPA Metals + UV/Vis pig. metals					
7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour 24 hour				Relinquished by Joshua Oliver Date 4/28/13		Time 1500		Received by Date Time		Date Time	
8 Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other				Relinquished by Date Time		Relinquished by Date Time		Relinquished by Date Time		Relinquished by Date Time	
8 EDD (circle if required) Locus EIM (default) Other				Relinquished by Commercial Carrier UPS FedEx Other Southwest		Received by Date Time		Received by Date Time		Received by Date Time	
				Temperature Upon Receipt _____ °C		Custody Seals Intact? Yes No					

Rachel L. Kreamer A# 14739, Gr# 1386188, LL#s 7038401-17

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Monday, April 29, 2013 5:48 PM
To: Rachel L. Kreamer
Cc: Kathy Klinefelter; Oliver, Joshua; Barrick, Stephen; Capria, Dennis
Subject: RE: Surface Waters received today

Rachel,

We have decided to cancel PAH and metals analyses for WS-004(surface)042813 and WS-004(0.5-1.0)042813 based on the potential mislabeling of the sample containers.

Thank you for bringing this to our attention.

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

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

From: Rachel L. Kreamer [mailto:RKreamer@lancasterlabs.com]
Sent: Monday, April 29, 2013 11:42 AM
To: Mott, Lyndi
Cc: Kathy Klinefelter
Subject: Surface Waters received today

Lyndi,

I attached the surface water chains and documentation log for samples we received earlier today.

For WS-004(surface)042813 we received 3 ambers and no metals bottle. We could preserve one of the ambers for metals.

For WS-004(0.5-1.0)042813 we received 1 amber and 3 metals bottles. We will not have a backup amber for PAHs if something goes wrong with the first run.

All collection times on the labels match the collection times on the chain so we can't tell which bottles may have been labeled incorrectly.

Shall we go ahead with preserving one of the ambers for WS-004(surface) for metals?

Thanks
Rachel

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

From: 39Scanner@lancasterlabs.com [mailto:39Scanner@lancasterlabs.com]
Sent: Monday, April 29, 2013 12:33 PM
To: Rachel L. Kreamer
Subject:

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

Scan Date: 04.29.2013 12:33:16 (-0400)
Queries to: 39Scanner@lancasterlabs.com

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Environmental Sample Administration
Receipt Documentation LogClient/Project: Exxon MobilShipping Container Sealed: YES NODate of Receipt: 4-29-13Custody Seal Present *: YES NOTime of Receipt: 1125

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

Source Code: 01Package: 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	1.8°	TB	WI	Y	B	
2	↓	1.6°	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

received (3) 250 mL ambers labeled WS-004 (surface)received (2) 250 mL HNO₃ labeled WS-004 (0.5-1.0) i(1) 250 mL amber labeled WS-004 (0.5-1.0)no metals bottle received labeled WS-004 (surface)

Unpacker Signature/Emp#:

Kristi Zyl 2123Date/Time: 4-29-13 1231

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2174.06

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ 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		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

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

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

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

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

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