

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 07, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/02/2013

Group Number: 1386972

SDG: PEG98

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LLI)

WS-003(SURFACE)050113 Grab Surface Water	7041976
WS-002(SURFACE)050113 Grab Surface Water	7041977
WS-BKG-001(SURFACE)050113 Grab Surface Water	7041978
WS-005(SURFACE)050113 Grab Surface Water	7041979
WS-005(SURFACE)MSD050113 Grab Surface Water	7041980
WS-005(SURFACE)MSD050113 Grab Surface Water	7041981
WS-005(SURFACE)DUP050113 Grab Surface Water	7041982
WS-001(SURFACE)050113 Grab Surface Water	7041983
WS-001(0.5-1.0)050113 Grab Surface Water	7041984
WS-004(SURFACE)050113 Grab Surface Water	7041985
WS-004(0.5-1.0)050113 Grab Surface Water	7041986
WS-007(SURFACE)050113 Grab Surface Water	7041987
WS-007(0.5-1.0)050113 Grab Surface Water	7041988
WS-006(SURFACE)050113 Grab Surface Water	7041989
WS-006(0.5-1.0)050113 Grab Surface Water	7041990
WS-008(SURFACE)050113 Grab Surface Water	7041991
WS-TB30-050113 Water	7041992

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

ELECTRONIC ARCADIS

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Attn: Stephen Barrick

Attn: Lyndi Mott

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 #: 1386972

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

Analysis Specific Comments:**SW-846 8260B 25mL purge, GC/MS Volatiles**

Batch #: G131222AA (Sample number(s): 7041976-7041981, 7041983-7041992 UNSPK: 7041979)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: n-Propylbenzene, 2-Chlorotoluene, 4-Chlorotoluene, sec-Butylbenzene, p-Isopropyltoluene, 1,3-Dichlorobenzene

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13122WAB026 (Sample number(s): 7041976-7041981, 7041983-7041984, 7041989-7041991 UNSPK: 7041979)

The recovery(ies) for the following analyte(s) in the LCS exceeded the acceptance window indicating a positive bias: Indeno(1,2,3-cd)pyrene

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

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7041983

Batch #: 13124WAB026 (Sample number(s): 7041985-7041988)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7041985, 7041986, 7041987, 7041988

Sample #s: 7041985, 7041987, 7041988

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

Sample #s: 7041983

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: 7041986

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.

SW-846 6010B, Metals

Batch #: 131221848001 (Sample number(s): 7041976-7041991 UNSPK: 7041979 BKG: 7041979)

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

Sample Description: WS-003 (SURFACE) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041976
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 09:00 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01003 SDG#: PEG98-01

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) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041976
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 09:00 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01003 SDG#: PEG98-01

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	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	0.0202	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.10	0.0640	0.200	1

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

Sample Description: WS-003 (SURFACE) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041976
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 09:00 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01003 SDG#: PEG98-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.55	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	0.0015 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	G131222AA	05/02/2013 23:13	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/02/2013 23:13	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13122WAB026	05/03/2013 18:43	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13122WAB026	05/02/2013 16:05	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 19:36	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 19:36	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 19:36	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 19:36	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 19:36	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 19:36	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 19:36	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 19:36	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 19:36	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 19:36	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 19:36	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 07:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-002 (SURFACE) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041977
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 09:20 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01002 SDG#: PEG98-02

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) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041977
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 09:20 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01002 SDG#: PEG98-02

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	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.2	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	0.0189	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.12	0.0640	0.200	1

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

Sample Description: WS-002 (SURFACE) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041977
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 09:20 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01002 SDG#: PEG98-02

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	1.56	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	G131222AA	05/02/2013 23:35	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/02/2013 23:35	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13122WAB026	05/03/2013 19:10	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13122WAB026	05/02/2013 16:05	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 19:49	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 19:49	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 19:49	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 19:49	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 19:49	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 19:49	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 19:49	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 19:49	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 19:49	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 19:49	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 19:49	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 07:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-BKG-001(SURFACE)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041978
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 09:50 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01BKG SDG#: PEG98-03

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) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041978
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 09:50 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01BKG SDG#: PEG98-03

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.	0.011	0.056	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.056	1
08357	Anthracene	120-12-7	N.D.	0.011	0.056	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.056	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.056	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.056	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.056	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.056	1
08357	Chrysene	218-01-9	N.D.	0.011	0.056	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.056	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.056	1
08357	Fluorene	86-73-7	N.D.	0.011	0.056	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.056	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.056	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.056	1
08357	Naphthalene	91-20-3	N.D.	0.034	0.056	1
08357	Phenanthrene	85-01-8	N.D.	0.034	0.056	1
08357	Pyrene	129-00-0	N.D.	0.011	0.056	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	35.0	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0465	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	10.0	0.0640	0.200	1

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

Sample Description: WS-BKG-001(SURFACE)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041978
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 09:50 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01BKG SDG#: PEG98-03

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	2.42	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0038 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	G131222AA	05/02/2013 23:57	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/02/2013 23:57	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13122WAB026	05/03/2013 19:37	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13122WAB026	05/02/2013 16:05	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 19:53	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 19:53	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 19:53	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 19:53	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 19:53	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 19:53	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 19:53	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 19:53	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 19:53	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 19:53	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 19:53	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 07:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-005(SURFACE)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041979
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 10:30 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01005 SDG#: PEG98-04BKG

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)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041979
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 10:30 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01005 SDG#: PEG98-04BKG

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	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.7	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0188	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.51	0.0640	0.200	1

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

Sample Description: WS-005(SURFACE)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041979
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 10:30 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01005 SDG#: PEG98-04BKG

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	
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	1.69	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0013 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0015 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	G131222AA	05/03/2013 00:18	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/03/2013 00:18	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13122WAB026	05/03/2013 12:00	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13122WAB026	05/02/2013 16:05	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 19:08	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 19:08	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 19:08	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 19:08	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 19:08	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 19:08	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 19:08	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 19:08	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 19:08	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 19:08	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 19:08	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 07:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-005(SURFACE)MS050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041980
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 10:30 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01005 SDG#: PEG98-04MS

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	45	3.0	5.0	1
02898	Allyl Chloride	107-05-1	6.4	0.1	0.5	1
02898	Benzene	71-43-2	5.5	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.8	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.3	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.0	0.1	0.5	1
02898	Bromoform	75-25-2	4.7	0.1	0.5	1
02898	Bromomethane	74-83-9	4.5	0.1	0.5	1
02898	2-Butanone	78-93-3	42	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	6.3	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	6.3	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	6.2	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.8	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.6	0.1	0.5	1
02898	Chloroethane	75-00-3	4.5	0.1	0.5	1
02898	Chloroform	67-66-3	5.4	0.1	0.5	1
02898	Chloromethane	74-87-3	3.9	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	6.3	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	6.2	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.3	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	4.9	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.8	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.8	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.7	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.9	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.8	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.2	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.4	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.5	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.0	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.6	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	5.8	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	4.8	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.4	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.9	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	5.7	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.0	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.4	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.5	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.7	0.1	0.5	1
02898	Freon 113	76-13-1	5.6	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	5.8	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.5	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	6.2	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.7	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	21	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.4	0.2	0.5	1

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

Sample Description: WS-005(SURFACE)MS050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041980
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 10:30 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01005 SDG#: PEG98-04MS

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	6.5	0.1	0.5	1
02898	Styrene	100-42-5	5.5	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.4	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	5.5	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.3	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	30	2.0	5.0	1
02898	Toluene	108-88-3	5.6	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.2	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.6	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.5	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	4.9	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.9	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	4.6	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.0	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	6.1	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	6.2	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.3	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	1.0	0.011	0.055	1
08357	Acenaphthylene	208-96-8	1.1	0.011	0.055	1
08357	Anthracene	120-12-7	0.76	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	0.97	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	0.84	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	1.0	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	0.75	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	0.95	0.011	0.055	1
08357	Chrysene	218-01-9	0.96	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	0.79	0.011	0.055	1
08357	Fluoranthene	206-44-0	1.1	0.011	0.055	1
08357	Fluorene	86-73-7	1.1	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.83	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.011	0.055	1
08357	Naphthalene	91-20-3	1.1	0.033	0.055	1
08357	Phenanthrene	85-01-8	1.1	0.033	0.055	1
08357	Pyrene	129-00-0	0.98	0.011	0.055	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	35.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.155	0.0068	0.0200	1
07046	Barium	7440-39-3	2.10	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0520	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.86	0.0640	0.200	1

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

Sample Description: WS-005(SURFACE)MS050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041980
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 10:30 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01005 SDG#: PEG98-04MS

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	0.210	0.0011	0.0150	1
07055	Lead	7439-92-1	0.162	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.76	0.0606	0.100	1
07061	Nickel	7440-02-0	0.537	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.150	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0506	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.533	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00090	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	G131222AA	05/03/2013 00:40	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/03/2013 00:40	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13122WAB026	05/03/2013 12:27	Chad A Moline	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13122WAB026	05/02/2013 16:05	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 19:20	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 19:20	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 19:20	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 19:20	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 19:20	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 19:20	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 19:20	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 19:20	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 19:20	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 19:20	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 19:20	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 08:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-005(SURFACE)MSD050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041981
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 10:30 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01005 SDG#: PEG98-04MSD

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	44	3.0	5.0	1
02898	Allyl Chloride	107-05-1	6.6	0.1	0.5	1
02898	Benzene	71-43-2	5.5	0.1	0.5	1
02898	Bromobenzene	108-86-1	6.0	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.4	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.1	0.1	0.5	1
02898	Bromoform	75-25-2	4.9	0.1	0.5	1
02898	Bromomethane	74-83-9	4.6	0.1	0.5	1
02898	2-Butanone	78-93-3	42	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	6.5	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	6.5	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	6.4	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	5.9	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.6	0.1	0.5	1
02898	Chloroethane	75-00-3	4.8	0.1	0.5	1
02898	Chloroform	67-66-3	5.5	0.1	0.5	1
02898	Chloromethane	74-87-3	4.0	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	6.5	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	6.4	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.6	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.0	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.8	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.9	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.9	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	6.1	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.9	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.2	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.6	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.6	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.1	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.7	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	6.0	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	4.9	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.5	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.9	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	5.4	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.7	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	5.2	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.5	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.6	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.7	0.1	0.5	1
02898	Freon 113	76-13-1	5.7	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	6.0	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.6	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	6.4	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	22	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.5	0.2	0.5	1

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

Sample Description: WS-005(SURFACE)MSD050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041981
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 10:30 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01005 SDG#: PEG98-04MSD

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	6.6	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	5.7	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.3	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	29	2.0	5.0	1
02898	Toluene	108-88-3	5.7	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	5.5	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	5.8	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.6	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.1	0.1	0.5	1
02898	Trichloroethene	79-01-6	6.0	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	4.8	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.1	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	6.3	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	6.4	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	0.94	0.010	0.052	1
08357	Acenaphthylene	208-96-8	0.99	0.010	0.052	1
08357	Anthracene	120-12-7	0.70	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.89	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.78	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.92	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.68	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.88	0.010	0.052	1
08357	Chrysene	218-01-9	0.88	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.72	0.010	0.052	1
08357	Fluoranthene	206-44-0	1.0	0.010	0.052	1
08357	Fluorene	86-73-7	0.98	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	1.0	0.010	0.052	1
08357	Naphthalene	91-20-3	1.0	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.97	0.031	0.052	1
08357	Pyrene	129-00-0	0.91	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	34.7	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.154	0.0068	0.0200	1
07046	Barium	7440-39-3	2.10	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0515	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.70	0.0640	0.200	1

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

Sample Description: WS-005 (SURFACE) MSD050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041981
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 10:30 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01005 SDG#: PEG98-04MSD

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	0.209	0.0011	0.0150	1
07055	Lead	7439-92-1	0.161	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.77	0.0606	0.100	1
07061	Nickel	7440-02-0	0.531	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.149	0.0075	0.0200	1
07066	Silver	7440-22-4	0.0507	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.533	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00090	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	G131222AA	05/03/2013 01:01	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/03/2013 01:01	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13122WAB026	05/03/2013 12:56	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13122WAB026	05/02/2013 16:05	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 19:24	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 19:24	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 19:24	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 19:24	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 19:24	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 19:24	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 19:24	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 19:24	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 19:24	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 19:24	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 19:24	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 08:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-005 (SURFACE) DUP050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041982
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 10:30 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01005 SDG#: PEG98-04DUP

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	15.7	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0188	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.51	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	1.69	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0021 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 19:16	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 19:16	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 19:16	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 19:16	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 19:16	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 19:16	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 19:16	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 19:16	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 19:16	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 19:16	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 19:16	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 08:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-001(SURFACE)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041983
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 11:15 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01011 SDG#: PEG98-05

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

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

Sample Description: WS-001(SURFACE)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041983
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 11:15 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01011 SDG#: PEG98-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
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	14.8	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	0.0231	0.00033	0.0050	1

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

Sample Description: WS-001(SURFACE)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041983
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 11:15 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01011 SDG#: PEG98-05

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	
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.30	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0011 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.60	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0013 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0020 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	G131222AA	05/03/2013 01:23	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/03/2013 01:23	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13122WAB026	05/03/2013 20:05	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13122WAB026	05/02/2013 16:05	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 19:57	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 19:57	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 19:57	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 19:57	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 19:57	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 19:57	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 19:57	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 19:57	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 19:57	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 19:57	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 19:57	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 08:07	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041984
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 11:20 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01012 SDG#: PEG98-06

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(0.5-1.0)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041984
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 11:20 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01012 SDG#: PEG98-06

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
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	19.3	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.153	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.30	0.0640	0.200	1

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

Sample Description: WS-001(0.5-1.0)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041984
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 11:20 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01012 SDG#: PEG98-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0020 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.08	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0022 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	0.0027 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	G131222AA	05/03/2013 01:44	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/03/2013 01:44	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13122WAB026	05/03/2013 20:32	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13122WAB026	05/02/2013 16:05	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 20:01	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 20:01	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 20:01	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 20:01	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 20:01	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 20:01	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 20:01	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 20:01	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 20:01	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 20:01	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 20:01	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 08:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-004(SURFACE)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041985
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 11:30 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01041 SDG#: PEG98-07

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	7.0	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)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041985
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 11:30 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01041 SDG#: PEG98-07

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	0.035 J	0.010	0.052	1
08357	Acenaphthylene	208-96-8	0.022 J	0.010	0.052	1
08357	Anthracene	120-12-7	0.031 J	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.054	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.068	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.068	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.080	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.062	0.010	0.052	1
08357	Chrysene	218-01-9	0.057	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.078	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.043 J	0.010	0.052	1
08357	Fluorene	86-73-7	0.039 J	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.080	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.074	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.095	0.010	0.052	1
08357	Naphthalene	91-20-3	0.17	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.055	0.031	0.052	1
08357	Pyrene	129-00-0	0.045 J	0.010	0.052	1
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	39.8	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0107 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.209	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-004 (SURFACE) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041985
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 11:30 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01041 SDG#: PEG98-07

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	
01750	Calcium	7440-70-2	7.56	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0269	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0241	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.08	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0218	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	0.0402	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000095 J	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	G131222AA	05/03/2013 02:06	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/03/2013 02:06	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAB026	05/06/2013 09:54	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13124WAB026	05/05/2013 10:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 20:05	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 20:05	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 20:05	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 20:05	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 20:05	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 20:05	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 20:05	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 20:05	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 20:05	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 20:05	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 20:05	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 08:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041986
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 11:35 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01042 SDG#: PEG98-08

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	6.6	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-004(0.5-1.0)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041986
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 11:35 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01042 SDG#: PEG98-08

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	0.2 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	0.012 J	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	0.011 J	0.011	0.053	1

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

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 CaCO ₃	471-34-1	44.0	0.064	0.20

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

Sample Description: WS-004(0.5-1.0)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041986
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 11:35 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01042 SDG#: PEG98-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0106 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.243	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00040 J	0.00036	0.0050	1
01750	Calcium	7440-70-2	7.95	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0349	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0318	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.85	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0286	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	0.0517	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000098 J	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	G131222AA	05/03/2013 02:27	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/03/2013 02:27	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAB026	05/06/2013 10:23	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13124WAB026	05/05/2013 10:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 20:09	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 20:09	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 20:09	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 20:09	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 20:09	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 20:09	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 20:09	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 20:09	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 20:09	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 20:09	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 20:09	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 08:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-007 (SURFACE) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041987
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 13:25 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01071 SDG#: PEG98-09

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	5.0	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) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041987
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 13:25 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01071 SDG#: PEG98-09

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	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	0.060	0.011	0.057	1
08357	Acenaphthylene	208-96-8	0.017 J	0.011	0.057	1
08357	Anthracene	120-12-7	0.042 J	0.011	0.057	1
08357	Benzo(a)anthracene	56-55-3	0.053 J	0.011	0.057	1
08357	Benzo(a)pyrene	50-32-8	0.026 J	0.011	0.057	1
08357	Benzo(b)fluoranthene	205-99-2	0.085	0.011	0.057	1
08357	Benzo(g,h,i)perylene	191-24-2	0.021 J	0.011	0.057	1
08357	Benzo(k)fluoranthene	207-08-9	0.026 J	0.011	0.057	1
08357	Chrysene	218-01-9	0.15	0.011	0.057	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.057	1
08357	Fluoranthene	206-44-0	0.36	0.011	0.057	1
08357	Fluorene	86-73-7	0.028 J	0.011	0.057	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.019 J	0.011	0.057	1
08357	1-Methylnaphthalene	90-12-0	0.14	0.011	0.057	1
08357	2-Methylnaphthalene	91-57-6	0.25	0.011	0.057	1
08357	Naphthalene	91-20-3	0.27	0.034	0.057	1
08357	Phenanthrene	85-01-8	0.098	0.034	0.057	1
08357	Pyrene	129-00-0	0.26	0.011	0.057	1
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	37.9	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0083 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.230	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00036 J	0.00036	0.0050	1

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

Sample Description: WS-007 (SURFACE) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041987
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 13:25 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01071 SDG#: PEG98-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
01750	Calcium	7440-70-2	6.92	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0269	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0266	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.00	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0223	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0407	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00010 J	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	G131222AA	05/03/2013 02:49	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/03/2013 02:49	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAB026	05/06/2013 10:53	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13124WAB026	05/05/2013 10:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 20:13	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 20:13	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 20:13	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 20:13	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 20:13	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 20:13	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 20:13	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 20:13	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 20:13	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 20:13	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 20:13	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 08:19	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041988
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 13:30 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01072 SDG#: PEG98-10

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	5.8	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)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041988
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 13:30 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01072 SDG#: PEG98-10

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	1.4	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	0.4 J	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.020 J	0.011	0.055	1
08357	Acenaphthylene	208-96-8	0.024 J	0.011	0.055	1
08357	Anthracene	120-12-7	0.050 J	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	0.077 J	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	0.039 J	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	0.18 J	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	0.030 J	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	0.059 J	0.011	0.055	1
08357	Chrysene	218-01-9	0.21 J	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	0.012 J	0.011	0.055	1
08357	Fluoranthene	206-44-0	0.53 J	0.011	0.055	1
08357	Fluorene	86-73-7	0.018 J	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.045 J	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	0.023 J	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	0.020 J	0.011	0.055	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.055	1
08357	Phenanthrene	85-01-8	0.097 J	0.033	0.055	1
08357	Pyrene	129-00-0	0.32 J	0.011	0.055	1
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	40.4	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0090 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.251	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1

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

Sample Description: WS-007(0.5-1.0)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041988
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 13:30 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01072 SDG#: PEG98-10

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	
01750	Calcium	7440-70-2	6.94	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0321	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0304	0.0051	0.0150	1
01757	Magnesium	7439-95-4	5.61	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0257	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	0.0486	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00010 J	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	G131222AA	05/03/2013 03:10	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/03/2013 03:10	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13124WAB026	05/06/2013 11:22	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13124WAB026	05/05/2013 10:30	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 20:18	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 20:18	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 20:18	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 20:18	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 20:18	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 20:18	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 20:18	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 20:18	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 20:18	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 20:18	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 20:18	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 08:21	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-006 (SURFACE) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041989
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 14:10 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01061 SDG#: PEG98-11

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

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

Sample Description: WS-006 (SURFACE) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041989
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 14:10 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01061 SDG#: PEG98-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	15.0	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	0.0196	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.33	0.0640	0.200	1

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

Sample Description: WS-006 (SURFACE) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041989
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 14:10 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01061 SDG#: PEG98-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.63	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0011 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	0.0020 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	G131222AA	05/03/2013 03:32	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/03/2013 03:32	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13122WAB026	05/03/2013 22:47	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13122WAB026	05/02/2013 16:05	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 20:22	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 20:22	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 20:22	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 20:22	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 20:22	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 20:22	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 20:22	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 20:22	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 20:22	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 20:22	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 20:22	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 08:23	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041990
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 14:20 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01062 SDG#: PEG98-12

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(0.5-1.0)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041990
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 14:20 by AD

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

01062 SDG#: PEG98-12

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	15.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0194	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.35	0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041990
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 14:20 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01062 SDG#: PEG98-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0012 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.63	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0014 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0019 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	G131222AA	05/03/2013 03:54	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/03/2013 03:54	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13122WAB026	05/03/2013 23:14	Chad A Moline	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13122WAB026	05/02/2013 16:05	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 20:26	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 20:26	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 20:26	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 20:26	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 20:26	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 20:26	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 20:26	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 20:26	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 20:26	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 20:26	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 20:26	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 08:25	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-008 (SURFACE) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041991
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 14:59 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01081 SDG#: PEG98-13

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	3.4 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	0.5	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	0.2 J	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	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) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041991
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 14:59 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01081 SDG#: PEG98-13

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	1	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	0.3 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	1.2	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.015 J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	0.012 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	0.036 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	0.11	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.12	0.010	0.051	1
08357	Naphthalene	91-20-3	0.11	0.030	0.051	1
08357	Phenanthrene	85-01-8	0.054	0.030	0.051	1
08357	Pyrene	129-00-0	0.017 J	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	65.1	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0442	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	15.6	0.0640	0.200	1

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

Sample Description: WS-008 (SURFACE) 050113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041991
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013 14:59 by AD

ExxonMobil

Mobil Pipeline Company

Submitted: 05/02/2013 08:00

PO Box 4416

Reported: 05/07/2013 13:00

Houston TX 77210-4416

01081 SDG#: PEG98-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0014 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	6.32	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0037 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	G131222AA	05/03/2013 04:15	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/03/2013 04:15	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13122WAB026	05/03/2013 23:41	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13122WAB026	05/02/2013 16:05	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131236256010	05/03/2013 06:20	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131221848001	05/02/2013 20:38	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131221848001	05/02/2013 20:38	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131221848001	05/02/2013 20:38	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131221848001	05/02/2013 20:38	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131221848001	05/02/2013 20:38	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131221848001	05/02/2013 20:38	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131221848001	05/02/2013 20:38	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131221848001	05/02/2013 20:38	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131221848001	05/02/2013 20:38	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131221848001	05/02/2013 20:38	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131221848001	05/02/2013 20:38	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131225713001	05/03/2013 08:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131221848001	05/02/2013 10:45	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131225713001	05/02/2013 16:40	Nelli S Markaryan	1

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

Sample Description: WS-TB30-050113 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041992
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

1TB30 SDG#: PEG98-14TB*

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-TB30-050113 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7041992
LLI Group # 1386972
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/01/2013

ExxonMobil

Submitted: 05/02/2013 08:00

Mobil Pipeline Company

Reported: 05/07/2013 13:00

PO Box 4416

Houston TX 77210-4416

1TB30 SDG#: PEG98-14TB*

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	G131222AA	05/02/2013 22:52	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G131222AA	05/02/2013 22:52	Kevin A Sposito	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 05/07/13 at 01:00 PM

Group Number: 1386972

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: G131222AA	Sample number(s): 7041976-7041981, 7041983-7041992								
Acetone	N.D.	3.0	5.0	ug/l	111		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	116		61-130		
Benzene	N.D.	0.1	0.5	ug/l	100		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	93		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	93		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	87		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	114		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	113		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	113		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	114		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	103		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	87		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	101		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	73		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	116		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	117		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	117		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	94		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	95		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	92		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	108		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	112		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	110		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	61		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	101		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	87		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	104		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	107		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	91		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	102		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	94		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	95		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	100		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	95		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	84		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	87		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	99		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	103		61-125		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1386972

Reported: 05/07/13 at 01:00 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	101		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	112		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	92		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	83		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	101		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	117		80-120		
Styrene	N.D.	0.1	0.5	ug/l	102		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	102		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	96		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	131		65-131		
Toluene	N.D.	0.1	0.5	ug/l	104		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	100		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	105		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	99		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	98		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	106		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	88		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	99		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	112		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	112		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	81		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	102		80-120		

Batch number: 13122WAB026

Sample number(s): 7041976-7041981,7041983-7041984,7041989-7041991

Acenaphthene	N.D.	0.010	0.050	ug/l	98		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	96		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	95		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	95		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	98		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	105		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	92		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	100		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	97		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	84		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	100		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	96		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	123*		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	103		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	98		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	99		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	99		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	99		71-116		

Batch number: 13124WAB026

Sample number(s): 7041985-7041988

Acenaphthene	N.D.	0.010	0.050	ug/l	100	97	65-124	3	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	105	102	72-113	4	30
Anthracene	N.D.	0.010	0.050	ug/l	94	91	70-117	3	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	100	92	75-115	8	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	87	85	72-120	2	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	103	100	74-130	4	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	109	103	63-121	6	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	96	94	74-118	2	30
Chrysene	N.D.	0.010	0.050	ug/l	99	96	75-112	3	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	107	99	66-122	8	30
Fluoranthene	N.D.	0.010	0.050	ug/l	103	101	73-116	3	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: 1386972

Reported: 05/07/13 at 01:00 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	103	98	74-115	4	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	106	100	66-122	6	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	107	104	72-114	3	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	104	101	74-119	3	30
Naphthalene	N.D.	0.030	0.050	ug/l	101	99	67-118	2	30
Phenanthrene	N.D.	0.030	0.050	ug/l	100	97	72-109	3	30
Pyrene	N.D.	0.010	0.050	ug/l	103	96	71-116	7	30

Batch number: 131221848001

Sample number(s): 7041976-7041991

Arsenic	N.D.	0.0068	0.0200	mg/l	102		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	105		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	104		90-112		
Calcium	0.0805 J	0.0640	0.200	mg/l	104		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	104		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	106		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	103		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	107		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	100		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	102		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	106		90-110		

Batch number: 131225713001

Sample number(s): 7041976-7041991

Mercury	N.D.	0.00007	0.00020	mg/l	93		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: G131222AA	Sample number(s): 7041976-7041981, 7041983-7041992 UNSPK: 7041979								
Acetone	120	117	57-163	2	30				
Allyl Chloride	128	132	67-139	3	30				
Benzene	109	111	87-126	1	30				
Bromobenzene	117	119	80-123	2	30				
Bromochloromethane	105	109	82-125	3	30				
Bromodichloromethane	99	102	82-133	3	30				
Bromoform	95	99	60-138	4	30				
Bromomethane	89	92	41-145	3	30				
2-Butanone	112	111	63-146	1	30				
n-Butylbenzene	127	131	83-131	3	30				
sec-Butylbenzene	125	130*	84-128	4	30				
tert-Butylbenzene	125	128	84-135	3	30				
Carbon Tetrachloride	116	119	81-148	2	30				
Chlorobenzene	112	112	78-133	0	30				
Chloroethane	90	95	70-139	6	30				
Chloroform	107	110	86-136	2	30				
Chloromethane	77	79	55-152	3	30				
2-Chlorotoluene	125*	131*	81-120	4	30				
4-Chlorotoluene	125*	129*	82-119	3	30				
1,2-Dibromo-3-chloropropane	106	111	43-143	5	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: 05/07/13 at 01:00 PM

Group Number: 1386972

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	97	100	79-125	3	30				
1,2-Dibromoethane	96	97	84-127	1	30				
Dibromomethane	95	98	83-126	3	30				
1,2-Dichlorobenzene	114	117	83-117	3	30				
1,3-Dichlorobenzene	117	121*	81-118	3	30				
1,4-Dichlorobenzene	115	118	79-120	2	30				
Dichlorodifluoromethane	63	65	28-136	3	30				
1,1-Dichloroethane	108	111	88-136	3	30				
1,2-Dichloroethane	89	92	82-135	2	30				
1,1-Dichloroethene	119	121	83-150	2	30				
cis-1,2-Dichloroethene	112	115	82-129	2	30				
trans-1,2-Dichloroethene	116	120	88-127	4	30				
Dichlorofluoromethane	96	98	59-176	3	30				
1,2-Dichloropropane	108	111	91-126	2	30				
1,3-Dichloropropane	97	99	80-127	2	30				
2,2-Dichloropropane	106	108	80-134	2	30				
1,1-Dichloropropene	114	114	86-139	1	30				
cis-1,3-Dichloropropene	100	104	74-132	3	30				
trans-1,3-Dichloropropene	89	91	71-128	2	30				
Ethyl ether	90	93	67-127	2	30				
Ethylbenzene	113	115	80-140	1	30				
Freon 113	112	114	87-158	2	30				
Hexachlorobutadiene	115	120	65-128	4	30				
Isopropylbenzene	111	112	81-133	1	30				
p-Isopropyltoluene	123	127*	84-124	3	30				
Methyl Tertiary Butyl Ether	94	97	82-132	3	30				
4-Methyl-2-Pentanone	84	86	69-149	3	30				
Methylene Chloride	109	109	84-122	1	30				
n-Propylbenzene	129	132*	79-131	2	30				
Styrene	110	113	63-151	3	30				
1,1,1,2-Tetrachloroethane	108	111	87-126	3	30				
1,1,2,2-Tetrachloroethane	110	115	75-131	4	30				
Tetrachloroethene	105	107	75-129	1	30				
Tetrahydrofuran	121	118	56-154	2	30				
Toluene	113	114	83-127	1	30				
1,2,3-Trichlorobenzene	104	110	73-125	6	30				
1,2,4-Trichlorobenzene	112	116	77-120	4	30				
1,1,1-Trichloroethane	109	113	85-140	3	30				
1,1,2-Trichloroethane	99	101	85-129	2	30				
Trichloroethene	117	120	85-131	2	30				
Trichlorofluoromethane	92	96	67-161	3	30				
1,2,3-Trichloropropane	100	102	76-120	2	30				
1,2,4-Trimethylbenzene	122	126	87-126	3	30				
1,3,5-Trimethylbenzene	124	127	89-129	3	30				
Vinyl Chloride	87	90	65-151	3	30				
Xylene (Total)	112	113	81-137	1	30				

Batch number: 13122WAB026

Sample number(s): 7041976-7041981, 7041983-7041984, 7041989-7041991 UNSPK: 7041979

Acenaphthene	92	91	59-127	7	30
Acenaphthylene	99	95	33-146	9	30
Anthracene	69	67*	69-119	8	30
Benzo(a)anthracene	89	85	67-124	9	30

*- Outside of specification

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

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

Quality Control SummaryClient Name: ExxonMobil
Reported: 05/07/13 at 01:00 PM

Group Number: 1386972

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Benzo(a)pyrene	77	75	64-123	8	30			
Benzo(b)fluoranthene	92	88	61-133	9	30			
Benzo(g,h,i)perylene	69	65	36-138	10	30			
Benzo(k)fluoranthene	87	84	59-128	8	30			
Chrysene	88	85	62-118	8	30			
Dibenz(a,h)anthracene	72	69	32-141	10	30			
Fluoranthene	102	97	65-123	9	30			
Fluorene	99	94	69-124	10	30			
Indeno(1,2,3-cd)pyrene	76	71	29-143	12	30			
1-Methylnaphthalene	103	101	67-117	6	30			
2-Methylnaphthalene	99	97	71-126	7	30			
Naphthalene	100	96	58-131	8	30			
Phenanthrene	97	93	67-117	9	30			
Pyrene	89	87	59-125	7	30			

Batch number: 131221848001	Sample number(s): 7041976-7041991 UNSPK: 7041979 BKG: 7041979							
Arsenic	103	102	81-123	1	20	N.D.	N.D.	0 (1) 20
Barium	104	104	78-118	0	20	0.0188	0.0188	0 (1) 20
Cadmium	104	103	83-116	1	20	N.D.	N.D.	0 (1) 20
Calcium	109	105	81-118	2	20	3.51	3.51	0 20
Chromium	105	104	81-120	1	20	N.D.	N.D.	0 (1) 20
Lead	108	107	75-125	1	20	N.D.	N.D.	0 (1) 20
Magnesium	103	104	75-125	0	20	1.69	1.69	0 20
Nickel	107	106	86-115	1	20	0.0013 J	0.0021 J	49* (1) 20
Selenium	100	99	75-125	1	20	N.D.	N.D.	0 (1) 20
Silver	101	101	75-125	0	20	N.D.	N.D.	0 (1) 20
Vanadium	106	106	90-111	0	20	0.0015 J	N.D.	200* (1) 20

Batch number: 131225713001	Sample number(s): 7041976-7041991 UNSPK: 7041979 BKG: 7041979							
Mercury	90	90	80-120	1	20	N.D.	N.D.	0 (1) 20

Surrogate Quality ControlSurrogate 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: G131222AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7041976	98	92	98	95
7041977	97	88	96	93
7041978	97	91	96	93
7041979	95	91	96	92
7041980	96	90	99	95
7041981	96	92	97	94
7041983	96	90	96	93
7041984	97	92	97	94
7041985	97	92	97	93

*- 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: 1386972

Reported: 05/07/13 at 01:00 PM

Surrogate Quality Control

7041986	96	91	96	94
7041987	96	90	97	93
7041988	96	91	97	95
7041989	97	92	97	94
7041990	97	94	96	92
7041991	96	93	98	96
7041992	97	94	95	95
Blank	97	92	96	93
LCS	96	89	98	96
MS	96	90	99	95
MSD	96	92	97	94

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

Analysis Name: PAHs in waters by SIM

Batch number: 13122WAB026

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

7041976	88	80	83
7041977	89	76	82
7041978	87	86	81
7041979	90	77	86
7041980	94	81	90
7041981	88	78	86
7041983	74	59*	73
7041984	83	80	82
7041989	86	76	82
7041990	87	79	84
7041991	96	91	91
Blank	79	82	77
LCS	90	93	91
MS	94	81	90
MSD	88	78	86

Limits: 64-120 62-141 58-134

Analysis Name: PAHs in waters by SIM

Batch number: 13124WAB026

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

7041985	59*	38*	71
7041986	66	45*	77
7041987	56*	54*	74
7041988	49*	33*	57*
Blank	103	113	98
LCS	95	103	94
LCSD	92	101	92

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

For Lancaster Laboratories use only
Group # 1386972 Sample # 7041976-92
Instructions on reverse side correspond with circled numbers.

Pg #1

1 Client Information				4 Matrix				5 Analyses Requested												6 Preservation Code		7 SCR#:	
Facility #/SID <u>Mayflower Pipeline Incident</u>				☐ Sediment ☐ Potable ☐ Ground ☐ NPDES ☒ Surface ☐ Water ☐ Oil ☐ Air ☐ Composite				Total # of Containers <u>VOC 8260 B</u> <u>PAH 8270 SIM</u> <u>GLCRA Metals Ni, V, Cr, Pb, Cu, Zn, Cd, Hg, Mn, Fe, Co, Mo, Se, Sb, Sn, Ti, W, Bi, Br, Ca, Cl, F, Ga, Ge, In, Ir, K, Li, Mg, Na, Nb, Pd, P, Pt, Rb, S, Si, Sr, Ta, Te, Th, Tl, U, Y, Zn, Zr</u>												Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		Remarks <u>Data analysis question</u> <u>Lyndi Mott - ARCADIS</u>	
Site Address <u>Mayflower, AR</u>																							
ExxonMobil PM <u>Scott Buhse</u>																							
Cost Center/AFE																							
Consultant/Office <u>ARCADIS</u>																							
Consultant PM <u>Steve Barrick</u>				Consultant Phone # <u>919-302-6799</u>																			
Sampler <u>Aaron Dwyer/Angie Parrinello (734) 604-1707</u>																							
2 Sample Identification			3 Collected		Grab	Composite																	
Date	Time																						
WS-003 (Surface) 050113	5/1/13	0900	X																				
WS-002 (Surface) 050113		0920																					
WS-BKG-01 (Surface) 050113		0950																					
WS-005 (Surface) 050113		1030																					
WS-001 (Surface) 050113		1115																					
WS-001 (0.5-1.0) 050113		1120																					
WS-004 (Surface) 050113		1130																					
WS-004 (0.5-1.0) 050113		1135																					
WS-007 (Surface) 050113		1325																					
WS-007 (0.5-1.0) 050113		1330																					
WS-006 (Surface) 050113		1410																					
WS-006 (0.5-1.0) 050113		1420																					
7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day <u>72 hour</u> 48 hour 24 hour				Relinquished by <u>[Signature]</u> Relinquished by <u>[Signature]</u> Relinquished by <u>[Signature]</u> Relinquished by Commercial Carrier UPS FedEx <u>X</u> Other _____				Date <u>5-1-13</u> Time <u>1730</u> Received by <u>[Signature]</u> Date <u>5-2-13</u> Time <u>0800</u>				Received by <u>[Signature]</u> Date <u>5-2-13</u> Time <u>0800</u>											
																Temperature Upon Receipt <u>0.8-1.8</u> °C Custody Seals Intact? <u>Yes</u> No							
8 Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____				EDD (circle if required) Locus EIM (default) Other _____																			

Eurofins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300
The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management
7053.01

For Lancaster Laboratories use only
Acct. # 14739 Group # 1386972 Sample # 7041976-92
Instructions on reverse side correspond with circled numbers.

For Lancaster Laboratories use only
 up # 1386972 Sample # 704
 Instructions on reverse side correspond with circled numbers

Pg #2

[illegible]

Eurolins Lancaster Laboratories, Inc. • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300
The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.

Issued by Dept. 40 Management
7053.01

Environmental Sample Administration
Receipt Documentation Log

1386972

Client/Project: ArcadisShipping Container Sealed: YES NODate of Receipt: 5-2-13Custody Seal Present * : YES NOTime of Receipt: 0800* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: ESOPackage: 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	2737	1.8	TB	WZ	Y	B	
2	↓	0.8	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:

Pat gh 3472

Date/Time:

5-2-13 0850

Issued by Dept. 6042 Management

2174.06

Explanation of Symbols and Abbreviations

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

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