

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

April 22, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 04/09/2013

Group Number: 1381337

SDG: PEG05

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LLI)

WS-003(SURFACE)040813 Grab Surface Water	7014615
WS-002(SURFACE)040813 Grab Surface Water	7014616
WS-BKG-001(SURFACE)040813 Grab Surface Water	7014617
WS-005(SURFACE)040813 Grab Surface Water	7014618
WS-001(SURFACE)040813 Grab Surface Water	7014619
WS-001(0.5-1.0)040813 Grab Surface Water	7014620
WS-004(SURFACE)040813 Grab Surface Water	7014621
WS-004(0.5-1.0)040813 Grab Surface Water	7014622
WS-007(SURFACE)040813 Grab Surface Water	7014623
WS-007(0.5-1.0)040813 Grab Surface Water	7014624
WS-006(SURFACE)040813 Grab Surface Water	7014625
WS-006(0.5-1.0)040813 Grab Surface Water	7014626
WS-DUP2-04082013 Grab Surface Water	7014627
TB-WS-04-04082013 Water	7014628
WS-008(SURFACE)040813 Grab Surface Water	7014629

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

ELECTRONIC ARCADIS

COPY TO

Attn: Stephen Barrick

ELECTRONIC ARCADIS

COPY TO

Attn: Lyndi Mott

ELECTRONIC ExxonMobil

COPY TO

Attn: Scott Bushroe

ELECTRONIC ExxonMobil Pipeline Company

COPY TO

Attn: Timothy S. Martin

ELECTRONIC ExxonMobil
COPY TO

Attn: Michael J Firth

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1381337

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

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

Batch #: C130991AA (Sample number(s): 7014615-7014619 UNSPK: P14544)

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

Batch #: I130992AA (Sample number(s): 7014620-7014629 UNSPK: P12436)

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

SW-846 8270C SIM, GC/MS Semivolatiles

Sample #s: 7014624, 7014626, 7014627

Reporting limits were raised due to limited sample volume.

SW-846 6010B, Metals

Batch #: 130991848002 (Sample number(s): 7014615-7014627, 7014629 UNSPK: 7014618 BKG: 7014618)

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

April 15, 2013

Mr. Scott Bushroe
ExxonMobil
3225 Gallows Road
Fairfax, VA 22037

Dear Mr. Bushroe:

I am writing to inform you of revised analytical reports that are being issued for the following:

Projec: Mayflower, AR Pipeline Incident

Group No.: 1381337

SDG No.: PEG05

LLI Sample No.	Client Sample Identification	Collection Date
7014629	WS-008(SURFACE)040813 Grab Surface Water	04/08/2013

The correction to the data affects the PAHs in waters by SIM analysis only.

This sample was initially reported with a comment that surrogate recoveries were outside of QC limits in order to report rush results. As per your request, the re-extract data with acceptable surrogate recoveries is now reported.

The revised analytical report reflects this correction and is enclosed.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1910. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,



Rachel R. Cochis
Senior Specialist/Group Leader
GC/MS Semivolatiles

RRC/mc
Enclosures

cc: Stephen Barrick (email)
Michael J. Firth (email)
Kathy Klinefelter
Timothy S. Martin (email)
Lyndi Mott (email)

April 22, 2013

Mr. Scott Bushroe
ExxonMobil
3225 Gallows Road
Fairfax, VA 22037

Dear Mr. Bushroe:

I am writing to inform you of revised analytical reports that are being issued for the following:

Project No. Mayflower, AR, Pipeline Incident

Group No. 1381337

SDG No.: PEG05

LLI Sample No.	Client Sample Identification	Collection Date
7014616	WS-002(SURFACE)040813 Grab Surface Water	04/08/2013

The correction to the data affects the PAHs in waters by SIM analysis only.

In response to your inquiry regarding all target compounds except Napthalene being detected at J values, the extract was re-analyzed. All target compounds were ND in the re-analysis. The re-analysis is now reported. The sample was also re-extracted and the results from the re-extraction confirmed the re-analysis results.

The revised analytical report reflects this correction and is enclosed.

You are a valued client, and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1910. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,



Rachel R. Cochis
Group Leader
GC/MS Semivolatiles

RRC/slw
Enclosures

cc: Stephen Barrick (email)
Michael Firth (email)
Kathy Klinefelter
Timothy Martin (email)
Lyndi Mott (email)

REVISED

Sample Description: WS-003 (SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014615
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 08:30 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/22/2013 09:08

PO Box 4416

Houston TX 77210-4416

8-003 SDG#: PEG05-01

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

REVISED

Sample Description: WS-003 (SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014615
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 08:30 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

8-003 SDG#: PEG05-01

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	0.012 J	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.4	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0201	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.20	0.0640	0.200	1

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

REVISED

Sample Description: WS-003 (SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014615
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 08:30 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

8-003 SDG#: PEG05-01

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	1.54	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	C130991AA	04/10/2013 04:45	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 04:45	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAC026	04/10/2013 09:15	Brian K Graham	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAC026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:52	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848002	04/09/2013 21:24	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	130991848002	04/09/2013 21:24	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	130991848002	04/09/2013 21:24	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	130991848002	04/09/2013 21:24	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	130991848002	04/09/2013 21:24	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	130991848002	04/09/2013 21:24	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	130991848002	04/09/2013 21:24	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	130991848002	04/09/2013 21:24	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	130991848002	04/09/2013 21:24	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	130991848002	04/09/2013 21:24	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	130991848002	04/09/2013 21:24	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	130995713001	04/10/2013 07:30	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848002	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713001	04/09/2013 16:45	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-002 (SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014616
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 09:05 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

8-002 SDG#: PEG05-02

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

REVISED

Sample Description: WS-002 (SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014616
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 09:05 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

8-002 SDG#: PEG05-02

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.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.055	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	N.D.	0.011	0.055	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	12.6	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0161	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	2.76	0.0640	0.200	1

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

REVISED

Sample Description: WS-002 (SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014616
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 09:05 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

8-002 SDG#: PEG05-02

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	1.39	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	C130991AA	04/10/2013 05:07	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 05:07	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAC026	04/18/2013 14:18	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAC026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:52	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848002	04/09/2013 21:28	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	130991848002	04/09/2013 21:28	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	130991848002	04/09/2013 21:28	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	130991848002	04/09/2013 21:28	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	130991848002	04/09/2013 21:28	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	130991848002	04/09/2013 21:28	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	130991848002	04/09/2013 21:28	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	130991848002	04/09/2013 21:28	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	130991848002	04/09/2013 21:28	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	130991848002	04/09/2013 21:28	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	130991848002	04/09/2013 21:28	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	130995713001	04/10/2013 07:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848002	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713001	04/09/2013 16:45	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-BKG-001(SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014617
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 09:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

8-BKG SDG#: PEG05-03

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

REVISED

Sample Description: WS-BKG-001(SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014617
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 09:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

8-BKG SDG#: PEG05-03

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	0.054	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.054	1
08357	Anthracene	120-12-7	N.D.	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.054	1
08357	Chrysene	218-01-9	N.D.	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.054	1
08357	Fluoranthene	206-44-0	0.011 J	0.011	0.054	1
08357	Fluorene	86-73-7	N.D.	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.054	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.054	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.054	1
08357	Pyrene	129-00-0	N.D.	0.011	0.054	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	24.8	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0346	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.60	0.0640	0.200	1

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

REVISED

Sample Description: WS-BKG-001(SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014617
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 09:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

8-BKG SDG#: PEG05-03

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	2.01	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	C130991AA	04/10/2013 05:29	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 05:29	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAC026	04/10/2013 10:58	Chad A Moline	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13099WAC026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:52	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848002	04/09/2013 21:41	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	130991848002	04/09/2013 21:41	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	130991848002	04/09/2013 21:41	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	130991848002	04/09/2013 21:41	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	130991848002	04/09/2013 21:41	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	130991848002	04/09/2013 21:41	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	130991848002	04/09/2013 21:41	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	130991848002	04/09/2013 21:41	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	130991848002	04/09/2013 21:41	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	130991848002	04/09/2013 21:41	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	130991848002	04/09/2013 21:41	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	130995713001	04/10/2013 07:34	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848002	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713001	04/09/2013 16:45	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-005(SURFACE)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014618
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 11:00 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

8-005 SDG#: PEG05-04

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

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

REVISED

Sample Description: WS-005 (SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014618
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 11:00 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

8-005 SDG#: PEG05-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.055	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	N.D.	0.011	0.055	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	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	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0150	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.16	0.0640	0.200	1

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

Sample Description: WS-005(SURFACE)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014618
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 11:00 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

8-005 SDG#: PEG05-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.53	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0017 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	C130991AA	04/10/2013 05:52	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 05:52	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAC026	04/10/2013 11:25	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAC026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:52	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848002	04/09/2013 20:58	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	130991848002	04/10/2013 05:24	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	130991848002	04/09/2013 20:58	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	130991848002	04/09/2013 20:58	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	130991848002	04/09/2013 20:58	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	130991848002	04/09/2013 20:58	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	130991848002	04/09/2013 20:58	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	130991848002	04/09/2013 20:58	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	130991848002	04/09/2013 20:58	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	130991848002	04/09/2013 20:58	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	130991848002	04/09/2013 20:58	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	130995713001	04/10/2013 07:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848002	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713001	04/09/2013 16:45	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-001(SURFACE)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014619
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 12:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80011 SDG#: PEG05-05

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

REVISED

Sample Description: WS-001(SURFACE)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014619
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 12:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80011 SDG#: PEG05-05

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.	0.011	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	15.3	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	3.55	0.0640	0.200	1

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

REVISED

Sample Description: WS-001(SURFACE)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014619
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 12:40 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80011 SDG#: PEG05-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.56	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0021 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0021 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	C130991AA	04/10/2013 06:14	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C130991AA	04/10/2013 06:14	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAC026	04/10/2013 11:52	Chad A Moline	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13099WAC026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:52	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848002	04/09/2013 21:45	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	130991848002	04/09/2013 21:45	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	130991848002	04/09/2013 21:45	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	130991848002	04/09/2013 21:45	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	130991848002	04/09/2013 21:45	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	130991848002	04/09/2013 21:45	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	130991848002	04/09/2013 21:45	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	130991848002	04/09/2013 21:45	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	130991848002	04/09/2013 21:45	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	130991848002	04/09/2013 21:45	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	130991848002	04/09/2013 21:45	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	130995713001	04/10/2013 07:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848002	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713001	04/09/2013 16:45	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-001(0.5-1.0)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014620
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 12:45 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/22/2013 09:08

PO Box 4416

Houston TX 77210-4416

80012 SDG#: PEG05-06

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

REVISED

Sample Description: WS-001(0.5-1.0)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014620
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 12:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80012 SDG#: PEG05-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	0.015 J	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	0.012 J	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	0.019 J	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.055	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	0.016 J	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	14.9	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0203	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.39	0.0640	0.200	1

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

REVISED

Sample Description: WS-001(0.5-1.0)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014620
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 12:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80012 SDG#: PEG05-06

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

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I130992AA	04/10/2013 01:19	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130992AA	04/10/2013 01:19	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAC026	04/10/2013 12:20	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAC026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:52	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848002	04/09/2013 21:50	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	130991848002	04/09/2013 21:50	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	130991848002	04/09/2013 21:50	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	130991848002	04/09/2013 21:50	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	130991848002	04/09/2013 21:50	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	130991848002	04/09/2013 21:50	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	130991848002	04/09/2013 21:50	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	130991848002	04/09/2013 21:50	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	130991848002	04/09/2013 21:50	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	130991848002	04/09/2013 21:50	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	130991848002	04/09/2013 21:50	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	130995713001	04/10/2013 07:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848002	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713001	04/09/2013 16:45	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-004(SURFACE)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014621
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 13:20 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80041 SDG#: PEG05-07

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

REVISED

Sample Description: WS-004(SURFACE)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014621
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 13:20 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80041 SDG#: PEG05-07

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	0.3 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.7	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.050	1
08357	Fluorene	86-73-7	0.014 J	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	0.013 J	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	14.4	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0215	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.30	0.0640	0.200	1

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

REVISED

Sample Description: WS-004 (SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014621
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 13:20 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80041 SDG#: PEG05-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0015 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.49	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0016 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0023 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	I130992AA	04/10/2013 01:40	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130992AA	04/10/2013 01:40	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAC026	04/10/2013 12:47	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAC026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:52	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848002	04/09/2013 21:54	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	130991848002	04/09/2013 21:54	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	130991848002	04/09/2013 21:54	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	130991848002	04/09/2013 21:54	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	130991848002	04/09/2013 21:54	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	130991848002	04/09/2013 21:54	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	130991848002	04/09/2013 21:54	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	130991848002	04/09/2013 21:54	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	130991848002	04/09/2013 21:54	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	130991848002	04/09/2013 21:54	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	130991848002	04/09/2013 21:54	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	130995713001	04/10/2013 07:42	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848002	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713001	04/09/2013 16:45	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-004(0.5-1.0)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014622
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 13:25 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/22/2013 09:08

PO Box 4416

Houston TX 77210-4416

80042 SDG#: PEG05-08

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

REVISED

Sample Description: WS-004(0.5-1.0)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014622
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 13:25 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/22/2013 09:08

PO Box 4416

Houston TX 77210-4416

80042 SDG#: PEG05-08

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	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.2 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.7	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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	0.014 J	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.017 J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.011 J	0.010	0.052	1
08357	Naphthalene	91-20-3	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	15.0	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	0.0234	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.42	0.0640	0.200	1

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

REVISED

Sample Description: WS-004(0.5-1.0)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014622
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 13:25 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80042 SDG#: PEG05-08

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	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.56	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0024 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	0.0023 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	I130992AA	04/10/2013 02:01	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130992AA	04/10/2013 02:01	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAC026	04/10/2013 13:14	Chad A Moline	1
10470	BNP Water Extraction (SIM)	SW-846 3510C	1	13099WAC026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:52	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848002	04/09/2013 21:58	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	130991848002	04/09/2013 21:58	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	130991848002	04/09/2013 21:58	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	130991848002	04/09/2013 21:58	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	130991848002	04/09/2013 21:58	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	130991848002	04/09/2013 21:58	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	130991848002	04/09/2013 21:58	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	130991848002	04/09/2013 21:58	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	130991848002	04/09/2013 21:58	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	130991848002	04/09/2013 21:58	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	130991848002	04/09/2013 21:58	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	130995713001	04/10/2013 07:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848002	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713001	04/09/2013 16:45	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-007(SURFACE)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014623
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 13:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80071 SDG#: PEG05-09

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

REVISED

Sample Description: WS-007(SURFACE)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014623
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 13:45 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/22/2013 09:08

PO Box 4416

Houston TX 77210-4416

80071 SDG#: PEG05-09

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	0.3 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.8	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.017 J	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	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	15.5	0.064	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0278	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.50	0.0640	0.200	1

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

REVISED

Sample Description: WS-007 (SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014623
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 13:45 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80071 SDG#: PEG05-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0017 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.64	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0024 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	0.0035 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	I130992AA	04/10/2013 02:22	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130992AA	04/10/2013 02:22	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAX026	04/10/2013 09:56	Chad A Moline	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13099WAX026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:52	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848002	04/09/2013 22:02	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	130991848002	04/09/2013 22:02	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	130991848002	04/09/2013 22:02	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	130991848002	04/09/2013 22:02	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	130991848002	04/09/2013 22:02	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	130991848002	04/09/2013 22:02	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	130991848002	04/09/2013 22:02	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	130991848002	04/09/2013 22:02	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	130991848002	04/09/2013 22:02	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	130991848002	04/09/2013 22:02	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	130991848002	04/09/2013 22:02	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	130995713001	04/10/2013 07:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848002	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713001	04/09/2013 16:45	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-007(0.5-1.0)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014624
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 13:50 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80072 SDG#: PEG05-10

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

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

REVISED

Sample Description: WS-007(0.5-1.0)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014624
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 13:50 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80072 SDG#: PEG05-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.1 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	0.3 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	0.7	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	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	0.019 J	0.011	0.056	1
08357	Fluorene	86-73-7	0.012 J	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.	0.033	0.056	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.056	1
08357	Pyrene	129-00-0	N.D.	0.011	0.056	1
Reporting limits were raised due to limited sample volume.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	16.8	0.064	0.20	1
	SW-846 6010B		mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0366	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

REVISED

Sample Description: WS-007(0.5-1.0)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014624
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 13:50 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80072 SDG#: PEG05-10

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	3.84	0.0640	0.200	1
07051	Chromium	7440-47-3	0.0018 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.75	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0028 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0041 J	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	I130992AA	04/10/2013 02:43	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130992AA	04/10/2013 02:43	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAX026	04/10/2013 10:23	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAX026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:52	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848002	04/09/2013 22:07	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	130991848002	04/09/2013 22:07	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	130991848002	04/09/2013 22:07	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	130991848002	04/09/2013 22:07	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	130991848002	04/09/2013 22:07	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	130991848002	04/09/2013 22:07	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	130991848002	04/09/2013 22:07	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	130991848002	04/09/2013 22:07	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	130991848002	04/09/2013 22:07	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	130991848002	04/09/2013 22:07	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	130991848002	04/09/2013 22:07	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	130995713001	04/10/2013 07:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848002	04/09/2013 12:30	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713001	04/09/2013 16:45	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-006 (SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014625
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 14:10 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80061 SDG#: PEG05-11

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

REVISED

Sample Description: WS-006 (SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014625
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 14:10 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80061 SDG#: PEG05-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	15.8	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	0.0167	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.64	0.0640	0.200	1

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

REVISED

Sample Description: WS-006 (SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014625
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 14:10 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80061 SDG#: PEG05-11

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	1.64	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	I130992AA	04/10/2013 03:04	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130992AA	04/10/2013 03:04	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAX026	04/10/2013 10:51	Chad A Moline	1
10470	BNW Water Extraction (SIM)	SW-846 3510C	1	13099WAX026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:52	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848002	04/09/2013 22:11	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	130991848002	04/09/2013 22:11	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	130991848002	04/09/2013 22:11	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	130991848002	04/09/2013 22:11	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	130991848002	04/09/2013 22:11	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	130991848002	04/09/2013 22:11	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	130991848002	04/09/2013 22:11	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	130991848002	04/09/2013 22:11	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	130991848002	04/09/2013 22:11	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	130991848002	04/09/2013 22:11	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	130991848002	04/09/2013 22:11	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	130995713001	04/10/2013 08:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848002	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713001	04/09/2013 16:45	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-006(0.5-1.0)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014626
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 14:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80062 SDG#: PEG05-12

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

REVISED

Sample Description: WS-006(0.5-1.0)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014626
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 14:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80062 SDG#: PEG05-12

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	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.055	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	N.D.	0.011	0.055	1
Reporting limits were raised due to limited sample volume.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	15.3	0.064	0.20	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	0.0197	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

REVISED

Sample Description: WS-006(0.5-1.0)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014626
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 14:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80062 SDG#: PEG05-12

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	
01750	Calcium	7440-70-2	3.46	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	1.61	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	0.0014 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	I130992AA	04/10/2013 03:25	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130992AA	04/10/2013 03:25	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAX026	04/10/2013 11:18	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAX026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:52	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848002	04/09/2013 22:15	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	130991848002	04/10/2013 05:35	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	130991848002	04/09/2013 22:15	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	130991848002	04/09/2013 22:15	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	130991848002	04/09/2013 22:15	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	130991848002	04/09/2013 22:15	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	130991848002	04/09/2013 22:15	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	130991848002	04/09/2013 22:15	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	130991848002	04/09/2013 22:15	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	130991848002	04/09/2013 22:15	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	130991848002	04/09/2013 22:15	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	130995713001	04/10/2013 08:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848002	04/09/2013 12:30	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713001	04/09/2013 16:45	Nelli S Markaryan	1

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

REVISED

Sample Description: WS-DUP2-04082013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014627
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 by JL

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/22/2013 09:08

PO Box 4416

Houston TX 77210-4416

8DUP2 SDG#: PEG05-13FD

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

REVISED

Sample Description: WS-DUP2-04082013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014627
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

8DUP2 SDG#: PEG05-13FD

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
Reporting limits were raised due to limited sample volume.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	12.7	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	0.0168	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

REVISED

Sample Description: WS-DUP2-04082013 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014627
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

8DUP2 SDG#: PEG05-13FD

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	2.75	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	1.41	0.0606	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	I130992AA	04/10/2013 03:47	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130992AA	04/10/2013 03:47	Sara E Johnson	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13099WAX026	04/10/2013 11:46	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13099WAX026	04/09/2013 18:45	Nicholas W Shroyer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:52	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848002	04/09/2013 22:20	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	130991848002	04/09/2013 22:20	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	130991848002	04/09/2013 22:20	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	130991848002	04/09/2013 22:20	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	130991848002	04/09/2013 22:20	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	130991848002	04/09/2013 22:20	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	130991848002	04/09/2013 22:20	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	130991848002	04/09/2013 22:20	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	130991848002	04/09/2013 22:20	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	130991848002	04/09/2013 22:20	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	130991848002	04/09/2013 22:20	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	130995713001	04/10/2013 08:04	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848002	04/09/2013 12:30	James L Mertzt	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713001	04/09/2013 16:45	Nelli S Markaryan	1

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

REVISED

Sample Description: TB-WS-04-04082013 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014628
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/22/2013 09:08

PO Box 4416

Houston TX 77210-4416

8WS04 SDG#: PEG05-14TB

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

REVISED

Sample Description: TB-WS-04-04082013 Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014628
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013

ExxonMobil

Submitted: 04/09/2013 09:25

Mobil Pipeline Company

Reported: 04/22/2013 09:08

PO Box 4416

Houston TX 77210-4416

8WS04 SDG#: PEG05-14TB

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	I130992AA	04/09/2013 22:52	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130992AA	04/09/2013 22:52	Sara E Johnson	1

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

REVISED

Sample Description: WS-008(SURFACE)040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014629
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 16:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80081 SDG#: PEG05-15*

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	25	1.0	5.0	10
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	0.8	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	1.4	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	1.1	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	2.9	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	11	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	2.2	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	1.2	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

REVISED

Sample Description: WS-008 (SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014629
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 16:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80081 SDG#: PEG05-15*

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	3.6	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	54	1.0	5.0	10
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	17	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	7.8	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	67	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.25	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.14	0.010	0.051	1
08357	Anthracene	120-12-7	0.17	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.15	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.093	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.13	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.17	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.024 J	0.010	0.051	1
08357	Chrysene	218-01-9	0.40	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.039 J	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.11	0.010	0.051	1
08357	Fluorene	86-73-7	0.82	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.052	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	4.4	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	5.5	0.010	0.051	1
08357	Naphthalene	91-20-3	2.5	0.031	0.051	1
08357	Phenanthrene	85-01-8	1.7	0.031	0.051	1
08357	Pyrene	129-00-0	0.37	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	30.0	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	0.155	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	6.18	0.0640	0.200	1

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

REVISED

Sample Description: WS-008 (SURFACE) 040813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LLI Sample # WW 7014629
LLI Group # 1381337
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 04/08/2013 16:15 by JL

ExxonMobil

Mobil Pipeline Company

Submitted: 04/09/2013 09:25

PO Box 4416

Reported: 04/22/2013 09:08

Houston TX 77210-4416

80081 SDG#: PEG05-15*

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	0.0115 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0142 J	0.0051	0.0150	1
01757	Magnesium	7439-95-4	3.55	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0104	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	0.0198	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	I130992AA	04/10/2013 04:08	Sara E Johnson	1
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	G131001AA	04/10/2013 10:23	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I130992AA	04/10/2013 04:08	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G131001AA	04/10/2013 10:23	Jason M Long	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13100WAA026	04/10/2013 23:27	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	13100WAA026	04/10/2013 14:00	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131006256001	04/10/2013 05:52	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	130991848002	04/09/2013 22:32	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	130991848002	04/09/2013 22:32	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	130991848002	04/09/2013 22:32	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	130991848002	04/09/2013 22:32	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	130991848002	04/09/2013 22:32	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	130991848002	04/09/2013 22:32	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	130991848002	04/09/2013 22:32	John W Yanzuk II	1
07061	Nickel	SW-846 6010B	1	130991848002	04/09/2013 22:32	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	130991848002	04/09/2013 22:32	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	130991848002	04/09/2013 22:32	John W Yanzuk II	1
07071	Vanadium	SW-846 6010B	1	130991848002	04/09/2013 22:32	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	130995713001	04/10/2013 08:06	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	130991848002	04/09/2013 12:30	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	130995713001	04/09/2013 16:45	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 04/22/13 at 09:08 AM

Group Number: 1381337

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: C130991AA	Sample number(s): 7014615-7014619								
Acetone	N.D.	3.0	5.0	ug/l	107		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	108		61-130		
Benzene	N.D.	0.1	0.5	ug/l	106		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	99		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	101		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	99		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	103		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	108		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	109		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	116		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	102		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	110		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	93		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	105		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	105		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	118		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	99		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	94		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	96		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	107		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	108		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	106		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	86		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	113		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	102		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	115		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	112		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	128		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	104		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	94		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	115		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	108		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	101		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	90		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	74		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	115		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	120		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: 1381337

Reported: 04/22/13 at 09:08 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	108		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	110		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	91		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	89		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	106		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	106		80-120		
Styrene	N.D.	0.1	0.5	ug/l	106		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	107		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	93		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	113		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	105		65-131		
Toluene	N.D.	0.1	0.5	ug/l	106		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	115		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	113		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	116		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	97		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	111		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	92		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	107		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	107		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	97		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	108		80-120		

Batch number: G131001AA

Sample number(s): 7014629

Benzene	N.D.	0.1	0.5	ug/l	102	102	80-120	0	30
Toluene	N.D.	0.1	0.5	ug/l	106	108	80-120	1	30

Batch number: I130992AA

Sample number(s): 7014620-7014629

Acetone	N.D.	3.0	5.0	ug/l	110		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	116		61-130		
Benzene	N.D.	0.1	0.5	ug/l	102		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	87		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	90		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	104		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	86		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	91		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	118		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	93		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	87		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	108		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	92		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	100		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	107		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	98		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	90		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	92		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	99		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	87		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	97		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	90		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	92		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	91		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	81		39-120		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1381337

Reported: 04/22/13 at 09:08 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	113		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	114		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	103		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	98		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	100		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	125		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	109		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	96		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	101		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	105		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	100		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	91		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	76		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	102		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	81		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	92		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	91		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	93		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	99		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	102		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	97		80-120		
Styrene	N.D.	0.1	0.5	ug/l	89		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	93		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	91		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	89		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	108		65-131		
Toluene	N.D.	0.1	0.5	ug/l	93		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	78		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	81		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	107		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	91		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	101		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	103		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	88		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	98		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	91		80-120		

Batch number: 13099WAC026

Sample number(s): 7014615-7014622

Acenaphthene	N.D.	0.0025	0.013	ug/l	95	96	65-124	0	30
Acenaphthylene	N.D.	0.0025	0.013	ug/l	102	101	72-113	1	30
Anthracene	N.D.	0.0025	0.013	ug/l	98	99	70-117	1	30
Benzo(a)anthracene	N.D.	0.0025	0.013	ug/l	100	99	75-115	0	30
Benzo(a)pyrene	N.D.	0.0025	0.013	ug/l	101	102	72-120	1	30
Benzo(b)fluoranthene	N.D.	0.0025	0.013	ug/l	106	105	74-130	1	30
Benzo(g,h,i)perylene	N.D.	0.0025	0.013	ug/l	98	89	63-121	10	30
Benzo(k)fluoranthene	N.D.	0.0025	0.013	ug/l	110	107	74-118	3	30
Chrysene	N.D.	0.0025	0.013	ug/l	101	99	75-112	3	30
Dibenz(a,h)anthracene	N.D.	0.0025	0.013	ug/l	96	77	66-122	23	30
Fluoranthene	N.D.	0.0025	0.013	ug/l	102	102	73-116	0	30
Fluorene	N.D.	0.0025	0.013	ug/l	98	99	74-115	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.0025	0.013	ug/l	98	86	66-122	13	30
1-Methylnaphthalene	N.D.	0.0025	0.013	ug/l	101	100	72-114	2	30
2-Methylnaphthalene	N.D.	0.0025	0.013	ug/l	104	102	74-119	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: 1381337

Reported: 04/22/13 at 09:08 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Naphthalene	N.D.	0.0075	0.013	ug/l	100	98	67-118	3	30
Phenanthrene	N.D.	0.0075	0.013	ug/l	99	98	72-109	1	30
Pyrene	N.D.	0.0025	0.013	ug/l	101	102	71-116	0	30

Batch number: 13099WAX026

Sample number(s): 7014623-7014627

Acenaphthene	N.D.	0.010	0.050	ug/l	97	97	65-124	0	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	103	101	72-113	2	30
Anthracene	N.D.	0.010	0.050	ug/l	102	102	70-117	0	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	105	104	75-115	1	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	100	102	72-120	2	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	103	103	74-130	1	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	100	93	63-121	8	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	104	103	74-118	1	30
Chrysene	N.D.	0.010	0.050	ug/l	97	94	75-112	2	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	94	77	66-122	21	30
Fluoranthene	N.D.	0.010	0.050	ug/l	108	105	73-116	3	30
Fluorene	N.D.	0.010	0.050	ug/l	99	97	74-115	2	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	99	89	66-122	10	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	100	98	72-114	1	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	100	99	74-119	1	30
Naphthalene	N.D.	0.030	0.050	ug/l	104	102	67-118	2	30
Phenanthrene	N.D.	0.030	0.050	ug/l	103	100	72-109	2	30
Pyrene	N.D.	0.010	0.050	ug/l	99	97	71-116	2	30

Batch number: 13100WAA026

Sample number(s): 7014629

Acenaphthene	N.D.	0.010	0.050	ug/l	101		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	104		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	106		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	105		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	104		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	109		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	100		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	106		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	99		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	95		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	110		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	101		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	99		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	98		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	99		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	103		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	104		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	99		71-116		

Batch number: 130991848002

Sample number(s): 7014615-7014627, 7014629

Arsenic	N.D.	0.0068	0.0200	mg/l	102		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	104		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	105		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	103		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	102		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	109		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	103		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	95		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	107		90-110		

*- 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: 1381337

Reported: 04/22/13 at 09:08 AM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 130995713001	Sample number(s): 7014615-7014627, 7014629								
Mercury	N.D.	0.00007	0.00020	mg/l	97		80-120		
		0							

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: C130991AA	Sample number(s): 7014615-7014619 UNSPK: P014544								
Acetone	108	109	57-163	0	30				
Allyl Chloride	123	121	67-139	2	30				
Benzene	118	120	87-126	1	30				
Bromobenzene	107	107	80-123	0	30				
Bromochloromethane	109	107	82-125	2	30				
Bromodichloromethane	110	110	82-133	0	30				
Bromoform	103	102	60-138	1	30				
Bromomethane	111	112	41-145	1	30				
2-Butanone	109	110	63-146	1	30				
n-Butylbenzene	121	122	83-131	1	30				
sec-Butylbenzene	120	121	84-128	1	30				
tert-Butylbenzene	119	120	84-135	1	30				
Carbon Tetrachloride	137	137	81-148	0	30				
Chlorobenzene	117	118	78-133	1	30				
Chloroethane	110	111	70-139	1	30				
Chloroform	121	122	86-136	1	30				
Chloromethane	97	98	55-152	1	30				
2-Chlorotoluene	115	115	81-120	0	30				
4-Chlorotoluene	113	114	82-119	1	30				
1,2-Dibromo-3-chloropropane	119	114	43-143	4	30				
Dibromochloromethane	108	106	79-125	1	30				
1,2-Dibromoethane	101	101	84-127	0	30				
Dibromomethane	103	104	83-126	2	30				
1,2-Dichlorobenzene	113	112	83-117	0	30				
1,3-Dichlorobenzene	117	117	81-118	0	30				
1,4-Dichlorobenzene	114	114	79-120	0	30				
Dichlorodifluoromethane	97	97	28-136	0	30				
1,1-Dichloroethane	125	126	88-136	1	30				
1,2-Dichloroethane	111	111	82-135	0	30				
1,1-Dichloroethene	130	132	83-150	2	30				
cis-1,2-Dichloroethene	117	118	82-129	1	30				
trans-1,2-Dichloroethene	125	126	88-127	1	30				
Dichlorofluoromethane	138	141	59-176	2	30				
1,2-Dichloropropane	114	114	91-126	0	30				
1,3-Dichloropropane	102	102	80-127	0	30				
2,2-Dichloropropane	134	134	80-134	0	30				
1,1-Dichloropropene	125	125	86-139	0	30				
cis-1,3-Dichloropropene	110	111	74-132	1	30				
trans-1,3-Dichloropropene	97	97	71-128	1	30				
Ethyl ether	106	105	67-127	1	30				

*- Outside of specification

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

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

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

Quality Control SummaryClient Name: ExxonMobil
Reported: 04/22/13 at 09:08 AM

Group Number: 1381337

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Ethylbenzene	121	122	80-140	1	30				
Freon 113	137	136	87-158	0	30				
Hexachlorobutadiene	133*	132*	65-128	0	30				
Isopropylbenzene	122	123	81-133	1	30				
p-Isopropyltoluene	123	124	84-124	1	30				
Methyl Tertiary Butyl Ether	96	96	82-132	1	30				
4-Methyl-2-Pentanone	93	94	69-149	0	30				
Methylene Chloride	115	116	84-122	1	30				
n-Propylbenzene	118	119	79-131	1	30				
Styrene	116	116	63-151	0	30				
1,1,1,2-Tetrachloroethane	117	117	87-126	0	30				
1,1,2,2-Tetrachloroethane	98	98	75-131	0	30				
Tetrachloroethene	130*	132*	75-129	1	30				
Tetrahydrofuran	104	105	56-154	1	30				
Toluene	118	119	83-127	0	30				
1,2,3-Trichlorobenzene	119	121	73-125	2	30				
1,2,4-Trichlorobenzene	118	120	77-120	2	30				
1,1,1-Trichloroethane	133	133	85-140	0	30				
1,1,2-Trichloroethane	103	103	85-129	0	30				
Trichloroethene	122	124	85-131	1	30				
Trichlorofluoromethane	124	124	67-161	0	30				
1,2,3-Trichloropropane	96	96	76-120	0	30				
1,2,4-Trimethylbenzene	119	119	87-126	0	30				
1,3,5-Trimethylbenzene	118	118	89-129	0	30				
Vinyl Chloride	108	109	65-151	2	30				
Xylene (Total)	119	120	81-137	1	30				

Batch number: G131001AA

Sample number(s): 7014629 UNSPK: P010195

Benzene	105	110	87-126	4	30
Toluene	109	114	83-127	5	30

Batch number: I130992AA

Sample number(s): 7014620-7014629 UNSPK: P012436

Acetone	117	107	57-163	9	30
Allyl Chloride	123	125	67-139	2	30
Benzene	109	114	87-126	5	30
Bromobenzene	91	97	80-123	7	30
Bromochloromethane	101	102	82-125	1	30
Bromodichloromethane	108	114	82-133	5	30
Bromoform	89	96	60-138	8	30
Bromomethane	98	104	41-145	6	30
2-Butanone	112	107	63-146	4	30
n-Butylbenzene	98	103	83-131	5	30
sec-Butylbenzene	98	104	84-128	6	30
tert-Butylbenzene	95	100	84-135	6	30
Carbon Tetrachloride	119	126	81-148	6	30
Chlorobenzene	97	102	78-133	5	30
Chloroethane	105	109	70-139	4	30
Chloroform	112	117	86-136	4	30
Chloromethane	99	104	55-152	5	30
2-Chlorotoluene	95	100	81-120	5	30
4-Chlorotoluene	94	99	82-119	5	30
1,2-Dibromo-3-chloropropane	97	94	43-143	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
Reported: 04/22/13 at 09:08 AM

Group Number: 1381337

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	99	106	79-125	7	30				
1,2-Dibromoethane	90	97	84-127	7	30				
Dibromomethane	102	107	83-126	4	30				
1,2-Dichlorobenzene	93	98	83-117	6	30				
1,3-Dichlorobenzene	95	101	81-118	5	30				
1,4-Dichlorobenzene	94	99	79-120	5	30				
Dichlorodifluoromethane	84	87	28-136	4	30				
1,1-Dichloroethane	118	122	88-136	3	30				
1,2-Dichloroethane	115	120	82-135	4	30				
1,1-Dichloroethene	117	125	83-150	7	30				
cis-1,2-Dichloroethene	106	112	82-129	5	30				
trans-1,2-Dichloroethene	110	117	88-127	5	30				
Dichlorofluoromethane	127	135	59-176	6	30				
1,2-Dichloropropane	115	118	91-126	2	30				
1,3-Dichloropropane	98	103	80-127	6	30				
2,2-Dichloropropane	111	115	80-134	4	30				
1,1-Dichloropropene	115	120	86-139	5	30				
cis-1,3-Dichloropropene	107	113	74-132	5	30				
trans-1,3-Dichloropropene	91	97	71-128	6	30				
Ethyl ether	104	111	67-127	6	30				
Ethylbenzene	99	104	80-140	5	30				
Freon 113	116	122	87-158	5	30				
Hexachlorobutadiene	91	98	65-128	8	30				
Isopropylbenzene	98	103	81-133	6	30				
p-Isopropyltoluene	96	102	84-124	6	30				
Methyl Tertiary Butyl Ether	98	103	82-132	4	30				
4-Methyl-2-Pentanone	104	106	69-149	2	30				
Methylene Chloride	109	114	84-122	4	30				
n-Propylbenzene	100	106	79-131	5	30				
Styrene	92	98	63-151	6	30				
1,1,1,2-Tetrachloroethane	98	104	87-126	6	30				
1,1,2,2-Tetrachloroethane	91	94	75-131	3	30				
Tetrachloroethene	-137 (2)	-239 (2)	75-129	2	30				
Tetrahydrofuran	102	101	56-154	0	30				
Toluene	97	102	83-127	5	30				
1,2,3-Trichlorobenzene	81	86	73-125	6	30				
1,2,4-Trichlorobenzene	86	91	77-120	5	30				
1,1,1-Trichloroethane	117	122	85-140	4	30				
1,1,2-Trichloroethane	93	97	85-129	4	30				
Trichloroethene	109 (2)	107 (2)	85-131	0	30				
Trichlorofluoromethane	111	118	67-161	6	30				
1,2,3-Trichloropropane	92	94	76-120	2	30				
1,2,4-Trimethylbenzene	96	101	87-126	5	30				
1,3,5-Trimethylbenzene	97	102	89-129	5	30				
Vinyl Chloride	105	111	65-151	6	30				
Xylene (Total)	96	101	81-137	5	30				
Batch number: 13100WAA026 Sample number(s): 7014629 UNSPK: P016163									
Acenaphthene	98	101	59-127	2	30				
Acenaphthylene	105	107	33-146	2	30				
Anthracene	99	99	69-119	0	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: 04/22/13 at 09:08 AM

Group Number: 1381337

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)anthracene	112	111	67-124	1	30				
Benzo(a)pyrene	100	97	64-123	3	30				
Benzo(b)fluoranthene	106	102	61-133	4	30				
Benzo(g,h,i)perylene	93	90	36-138	3	30				
Benzo(k)fluoranthene	100	97	59-128	3	30				
Chrysene	96	92	62-118	4	30				
Dibenz(a,h)anthracene	91	87	32-141	4	30				
Fluoranthene	109	109	65-123	1	30				
Fluorene	99	101	69-124	2	30				
Indeno(1,2,3-cd)pyrene	97	93	29-143	4	30				
1-Methylnaphthalene	96	98	67-117	2	30				
2-Methylnaphthalene	97	99	71-126	3	30				
Naphthalene	100	103	58-131	3	30				
Phenanthrene	104	105	67-117	1	30				
Pyrene	107	106	59-125	1	30				

Batch number: 130991848002	Sample number(s): 7014615-7014627,7014629 UNSPK: 7014618 BKG: 7014618								
Arsenic	100	102	81-123	2	20	N.D.	N.D.	0 (1)	20
Barium	102	103	78-118	0	20	0.0150	0.0152	2 (1)	20
Cadmium	104	104	83-116	0	20	N.D.	N.D.	0 (1)	20
Calcium	100	103	81-118	2	20	3.16	3.17	0	20
Chromium	103	103	81-120	0	20	N.D.	N.D.	0 (1)	20
Lead	105	104	75-125	1	20	N.D.	N.D.	0 (1)	20
Magnesium	97	100	75-125	2	20	1.53	1.53	0	20
Nickel	108	108	86-115	0	20	N.D.	N.D.	0 (1)	20
Selenium	100	101	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	92	94	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	104	105	90-111	1	20	0.0017 J	N.D.	200* (1)	20

Batch number: 130995713001	Sample number(s): 7014615-7014627,7014629 UNSPK: 7014621 BKG: 7014621								
Mercury	101	98	80-120	3	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

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

Analysis Name: NHDES VOCs 25ml purge

Batch number: C130991AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7014615	100	94	100	97
7014616	100	94	100	96
7014617	100	93	100	96
7014618	100	93	100	96
7014619	101	94	100	96
Blank	98	92	102	96
LCS	99	93	101	97
MS	99	92	101	97

*- 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: 04/22/13 at 09:08 AM

Group Number: 1381337

Surrogate Quality Control

MSD	99	92	101	97
Limits:	77-114	74-113	77-110	78-110

Analysis Name: NHDES VOCs 25ml purge
Batch number: I130992AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7014620	102	93	99	103
7014621	101	94	100	104
7014622	101	92	100	103
7014623	102	96	99	105
7014624	101	94	99	105
7014625	102	96	99	104
7014626	104	99	98	105
7014627	102	96	99	104
7014628	102	95	100	104
7014629	99	93	104	110
Blank	101	95	100	103
LCS	102	91	101	104
MS	101	91	97	102
MSD	101	89	98	101
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13099WAC026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7014615	93	80	89
7014616	92	91	90
7014617	91	90	87
7014618	97	94	89
7014619	93	92	88
7014620	97	95	93
7014621	91	88	91
7014622	96	94	93
Blank	90	93	86
LCS	94	105	95
LCSD	93	102	92
Limits:	64-120	62-141	58-134

Analysis Name: PAHs in waters by SIM
Batch number: 13099WAX026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7014623	85	76	86
7014624	83	69	86
7014625	96	90	91
7014626	95	91	92
7014627	99	97	94
Blank	96	93	90
LCS	100	104	98

*- 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: 04/22/13 at 09:08 AM

Group Number: 1381337

Surrogate Quality Control

LCSD	97	102	96
Limits:	64-120	62-141	58-134
Analysis Name: PAHs in waters by SIM			
Batch number: 13100WAA026			
	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7014629	103	70	104
Blank	96	100	88
LCS	100	103	94
MS	100	103	91
MSD	100	100	94
Limits:	64-120	62-141	58-134

*- Outside of specification

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

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

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

ExxonMobil Analysis Request/Chain of Custody



Lancaster
Laboratories

Acct. # 14739 Group # 1381337 Sample # 7014615-29
For Lancaster Laboratories use only
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix		5 Analyses Requested										6 Remarks																									
Facility #/SID				Total # of Containers		Preservation Code																																			
Site Address ARCADIS-MAYFLOWER PIPE INCIDENT				☐ Sediment ☐ Potable ☐ Water ☐ Soil ☐ Grab ☐ Composite	☐ Ground ☒ Surface ☐ NPDES ☐ Air	<table border="1" style="width:100%; text-align: center;"> <tr> <th>H</th><th>N</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										H	N																							Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other	
H	N																																								
ExxonMobil PM SCOTT BUSHROE				Cost Center/AFE		6 Remarks DATA ANALYSIS QUESTIONS: LYNDI MOTT - ARCADIS																																			
Consultant/Office ARCADIS				Consultant PM STEPHEN BARRICK		Consultant Phone # 919 302 6799																																			
Sampler Jon LEMESSURIER				315 558 1904																																					
2 Sample Identification			3 Collected																																						
Sample	Date	Time	Grab	Composite																																					
WS-003 (SURFACE)	040813	4/8/13	0830	X																																					
WS-002 (SURFACE)	040813		0905	X																																					
WS-BBP																																									
WS-BKG-001 (SURFACE)	040813		0945	X																																					
WS-005 (SURFACE)	040813		1100	X																																					
WS-001 (SURFACE)	040813		1240	X																																					
WS-001 (0.5-1.0)	040813		1245	X																																					
WS-004 (SURFACE)	040813		1320	X																																					
WS-004 (0.5-1.0)	040813		1325	X																																					
WS-007 (SURFACE)	040813		1345	X																																					
WS-007 (0.5-1.0)	040813		1350	X																																					
WS-006 (SURFACE)	040813		1410	X																																					
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by		Date		Time		Received by		Date		Time		9																									
Standard 5 day 4 day				<i>[Signature]</i>		4/8/13		1830																																	
72 hour 48 hour 24 hour				Relinquished by		Date		Time		Received by		Date		Time																											
				Relinquished by		Date		Time		Received by		Date		Time																											
8 Data Package (circle if required)				EDD (circle if required)		Relinquished by Commercial Carrier		Date		Time		Received by		Date		Time																									
Type I - Full				Locus EIM (default)		UPS FedEx X Other						<i>[Signature]</i>		4/9/13		0925																									
Type VI (Raw Data)				Other		Temperature Upon Receipt <u>1.7-5.2 °C</u>						Custody Seals Intact?		Yes		No																									
NJ Reduced																																									
Other																																									

ExxonMobil Analysis Request/Chain of Custody



Lancaster
Laboratories

Acct. # 14739 For Lancaster Laboratories use only
Group # 1381337 Sample # 7014615-29
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix		5 Analyses Requested										6 Preservation Code		SCR#:	
Facility #/SID				Sediment ☐ Ground ☐ Surface ☒ Potable ☐ NPDES ☐ Air ☐ Water ☐ Oil ☐		H ☐ N ☐ VOCs - 8260B PAH - 8260 SIM RCRA - METALS										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		6 Remarks DATA ANALYSIS QUESTIONS LYNDI MOTT - ARCADIS	
Site Address ARCADIS-MAYFLOWER PIPELINE INCIDENT																			
ExxonMobil PM SCOTT BUSHROE		Cost Center/AFE																	
Consultant/Office ARCADIS		Consultant Phone # 919 302 6799																	
Sampler JON LEMESSURIER		315 558 1904																	
2 Sample Identification				3		Total # of Containers 6 X X X 6 X X X 1 X 6 X X X													
Collected		Grab		Composite															
Date Time		Soil		Water															
WS-006 (0.5-1.0) 040813		4/8/13		1415															
WS-DUP2-04082013		4/8/13		1415															
TB-WS-04-04082013		4/8/13		1615															
WS-008 (SURFACE) 040813		4/8/13		1615															
7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour 24 hour				Relinquished by		Date		Time		Received by		Date		Time					
				Relinquished by		Date		Time		Received by		Date		Time					
				Relinquished by		Date		Time		Received by		Date		Time					
				Relinquished by Commercial Carrier		Date		Time		Received by		Date		Time					
8 Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____				EDD (circle if required) Locus EIM (default) Other _____		UPS _____ FedEx X Other _____		Temperature Upon Receipt <u>1.7-5.2 °C</u>		Custody Seals Intact?		Yes ☒ No ☐							

Kathy Klinefelter A# 14739, Gr # 1381337, Samples 7014615-29

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Tuesday, April 09, 2013 11:46 AM
To: SA Env Entry; Kathy Klinefelter
Subject: Surface Water cocs Ca-Mg Hardness Added
Attachments: XOM_Mayflower_04072013.pdf; XOM_Mayflower_04082013.pdf

Please add calcium, magnesium and Ca-Mg Hardness calculation to the sw samples listed on these cocs.

The Project Team has decided that we would need Ca-Mg Hardness calculation on each surface water sample submitted from 040613 collection date going forward.

Thank you,
Lyndi

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

From: Mott, Lyndi
Sent: Monday, April 08, 2013 7:43 PM
To: SA Env Entry; 'Kathy Klinefelter'
Subject: FW: COCs for Surface Water

Please add the collection date to the sample Ids. Metals is RCRA metals, including mercury, plus nickel and vanadium.

TAT is 24 hours or best available.

Lyndi Mott

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

NOTICE: This e-mail and any files transmitted with it are the property of ARCADIS U.S., Inc. and its affiliates. All rights, including without limitation copyright, are reserved. The proprietary information contained in this e-mail message, and any files transmitted with it, is intended for the use of the recipient (s) named above. If the reader of this e-mail is not the intended recipient, you are hereby notified that you have received this e-mail in error and that any review, distribution or copying of this e-mail or any files transmitted with it is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately and delete the original message and any files transmitted. The unauthorized use of this e-mail or any files transmitted with it is prohibited and disclaimed by ARCADIS U.S., Inc. and its affiliates. Nothing herein is intended to constitute the offering or performance of services where otherwise restricted by law.

4/9/2013

Environmental Sample Administration
Receipt Documentation Log

1381337

Client/Project: ARCADIS-MAYFLOWERShipping Container Sealed: YES NODate of Receipt: 4/9/13Custody Seal Present *: YES NOTime of Receipt: 0925* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 50-1Package: 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	2783	2.1	TB	WI	Y	B	
2		1.9					
3		5.2					
4		2.5					
5		1.7					
6		2.7					

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Daneshund / 208 Date/Time: 4/9/13 / 1015

Issued by Dept. 6042 Management

2174.06

Environmental Sample Administration
Receipt Documentation Log

1381337

Client/Project: ARCADIS-MAYFLOWER Shipping Container Sealed: YES NODate of Receipt: 4/9/13Custody Seal Present *: YES NOTime of Receipt: 0925* Custody seal was intact unless otherwise noted in the
discrepancy sectionSource Code: 50-1Package: 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
7	2783	1.7	TB	WI	Y	B	
8	↓	3.3	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Danesh / 208 Date/Time: 4/9/13 / 1015

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.

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