

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

July 05, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 06/18/2013
Group Number: 1397806
SDG: PEI30
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
WS-003(Surface)061713 Grab Surface Water	7096383
WS-002(Surface)061713 Grab Surface Water	7096384
WS-005(Surface)061713 Grab Surface Water	7096385
WS-008(Surface)061713 Grab Surface Water	7096386
WS-001(Surface)061713 Grab Surface Water	7096387
WS-001(0.5-1.0)061713 Grab Surface Water	7096388
WS-004(Surface)061713 Grab Surface Water	7096389
WS-004(0.5-1.0)061713 Grab Surface Water	7096390
WS-007(Surface)061713 Grab Surface Water	7096391
WS-007(0.5-1.0)061713 Grab Surface Water	7096392
WS-006(Surface)061713 Grab Surface Water	7096393
WS-006(0.5-1.0)061713 Grab Surface Water	7096394
DUP-WS-42-061713 Grab Surface Water	7096395
WS-TB-75-061713 Water	7096396

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

ELECTRONIC COPY TO	ARCADIS	Attn: Stephen Barrick
ELECTRONIC COPY TO	ARCADIS	Attn: Lyndi Mott
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael J. Firth
ELECTRONIC COPY TO	ARCADIS	Attn: Emily Leamer
ELECTRONIC COPY TO	ARCADIS	Attn: Rhiannon Parmalee

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ELECTRONIC	ARCADIS	Attn: Jamie Pritchard
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ELECTRONIC	ExxonMobil	Attn: Michael L Sixsmith
COPY TO		
ELECTRONIC	ExxonMobil	Attn: Julie Foster
COPY TO		
ELECTRONIC	ExxonMobil	Attn: Carl Wideman
COPY TO		

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1397806

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 6010B, Metals**

Batch #: 131691848011 (Sample number(s): 7096383-7096395 UNSPK: 7096389 BKG: 7096389)

The duplicate RPD for the following analyte(s) exceeded the acceptance window:
Selenium, Chromium

July 8, 2013

Ms. Lyndi Mott
ARCADIS
2929 Briarpark Drive, Suite 300
Houston, TX 77042

Dear Ms. Mott:

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

Project: Mayflower, AR Pipeline Incident

Group No.: 1396775,1397455,1399494,1397668,1397806,1398443,1398099
SDG No.: various

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

During an additional review of this data it was determined that the peaks used to quantify benzo(b)fluoranthene, benzo(k)fluoranthene and benzo(a)pyrene were assigned incorrectly on the GC/MS, instrument 11165. This error was made during the calibration of this GC/MS on June 20, 2013 and was discovered on June 27, 2013. Including matrix spike and matrix spike duplicates, 28 samples had reportable concentrations of at least one of these compounds. See Attachment I for the original and revised concentrations of these 3 compounds in those 28 samples. These compounds were not detected in the other samples analyzed during this timeframe except for QC spikes. The revision did not cause any QC that recovered within the quality control limits originally to now be outside of specification. The initial calibrations, all affected QC, and sample data were corrected. The revised analytical reports reflect this correction and are enclosed. Revised EDDs and data packages will also be re-submitted.

In addition, at the request of the client, in the instances where no sample results changed but quality control data was impacted, only the data packages will be revised and resent. See Attachment II for a list of those sample delivery groups

Our quality control department has initiated an investigation of this issue and will provide an investigation summary letter upon completion.

The revised analytical report reflects this correction and is enclosed.

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Ms. Lyndi Mott
July 8, 2013

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. 1892. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,



Richard Karam
Manager
Environmental Sciences

RK/slw
Enclosures

cc: Stephen Barrick (email)
Michael Firth (email)
Julie Foster (email)
Kathy Klinefelter (email)
Emily Leamer (email)
Rhiannon Parmalee (email)
Jamie Pritchard (email)
Michael Sixsmith (email)
Carl Wideman (email)

ATTACHMENT I

SDG	Group	ELLE Sample No.	Client Sample Identification	Compound Name	Original Result (ug/L)	Revised Result (ug/L)
PEI19	1396775	7091218	WS-008(Surface)061213MS Grab Surface Water	Benzo(b)fluoranthene	0.77	0.9
PEI19	1396775	7091218	WS-008(Surface)061213MS Grab Surface Water	Benzo(k)fluoranthene	0.68	0.82
PEI19	1396775	7091218	WS-008(Surface)061213MS Grab Surface Water	Benzo(a)pyrene	0.82	0.69
PEI19	1396775	7091219	WS-008(Surface)061213MSD Grab Surface Water	Benzo(b)fluoranthene	0.79	0.91
PEI19	1396775	7091219	WS-008(Surface)061213MSD Grab Surface Water	Benzo(k)fluoranthene	0.73	0.86
PEI19	1396775	7091219	WS-008(Surface)061213MSD Grab Surface Water	Benzo(a)pyrene	0.87	0.72
PEI19	1396775	7091224	WS-004(0.5-1.0)061213 Grab Surface Water	Benzo(b)fluoranthene	N.D.	0.011 J
PEI19	1396775	7091226	WS-007(0.5-1.0)061213 Grab Surface Water	Benzo(b)fluoranthene	0.2	0.4
PEI19	1396775	7091226	WS-007(0.5-1.0)061213 Grab Surface Water	Benzo(k)fluoranthene	0.12	0.13
PEI19	1396775	7091226	WS-007(0.5-1.0)061213 Grab Surface Water	Benzo(a)pyrene	0.13	0.12
PEI23	1397455	7094720	WS-007(Surface)061413 Grab Surface Water	Benzo(b)fluoranthene	0.11	0.24
PEI23	1397455	7094720	WS-007(Surface)061413 Grab Surface Water	Benzo(k)fluoranthene	0.071	0.072
PEI23	1397455	7094720	WS-007(Surface)061413 Grab Surface Water	Benzo(a)pyrene	0.076	0.069
PEI23	1397455	7094721	WS-007(Surface)061413 MS Grab Surface Water	Benzo(b)fluoranthene	0.75	0.92
PEI23	1397455	7094721	WS-007(Surface)061413 MS Grab Surface Water	Benzo(k)fluoranthene	0.74	0.82
PEI23	1397455	7094721	WS-007(Surface)061413 MS Grab Surface Water	Benzo(a)pyrene	0.78	0.77
PEI23	1397455	7094722	WS-007(Surface)061413 MSD Grab Surface Water	Benzo(b)fluoranthene	0.7	0.88
PEI23	1397455	7094722	WS-007(Surface)061413 MSD Grab Surface Water	Benzo(k)fluoranthene	0.74	0.78
PEI23	1397455	7094722	WS-007(Surface)061413 MSD Grab Surface Water	Benzo(a)pyrene	0.74	0.73
PEI23	1397455	7094724	WS-007(0.5-1.0)061413 Grab Surface Water	Benzo(b)fluoranthene	0.61	1.3
PEI23	1397455	7094724	WS-007(0.5-1.0)061413 Grab Surface Water	Benzo(k)fluoranthene	0.41	0.4

SDG	Group	ELLE Sample No.	Client Sample Identification	Compound Name	Original Result (ug/L)	Revised Result (ug/L)
PEI23	1397455	7094724	WS-007(0.5-1.0)061413 Grab Surface Water	Benzo(a)pyrene	0.41	0.4
PEI28	1397668	7095864	WS-004(Surface)061513 Grab Surface Water	Benzo(b)fluoranthene	0.011 J	0.022 J
PEI28	1397668	7095865	WS-004(0.5-1.0)061513 Grab Surface Water	Benzo(b)fluoranthene	0.015 J	0.029 J
PEI28	1397668	7095865	WS-004(0.5-1.0)061513 Grab Surface Water	Benzo(k)fluoranthene	0.012 J	0.011 J
PEI28	1397668	7095865	WS-004(0.5-1.0)061513 Grab Surface Water	Benzo(a)pyrene	0.011 J	0.012 J
PEI28	1397668	7095866	WS-007(Surface)061513 Grab Surface Water	Benzo(b)fluoranthene	0.020 J	0.039 J
PEI28	1397668	7095866	WS-007(Surface)061513 Grab Surface Water	Benzo(k)fluoranthene	0.011 J	0.014 J
PEI28	1397668	7095866	WS-007(Surface)061513 Grab Surface Water	Benzo(a)pyrene	0.013 J	N.D.
PEI28	1397668	7095867	WS-007(0.5-1.0)061513 Grab Surface Water	Benzo(b)fluoranthene	4.2	11
PEI28	1397668	7095867	WS-007(0.5-1.0)061513 Grab Surface Water	Benzo(k)fluoranthene	2.5	3.4
PEI28	1397668	7095867	WS-007(0.5-1.0)061513 Grab Surface Water	Benzo(a)pyrene	3.1	2.5
PEI28	1397668	7095870	DUP-WS-41-061513 Grab Surface Water	Benzo(b)fluoranthene	0.026 J	0.049 J
PEI28	1397668	7095870	DUP-WS-41-061513 Grab Surface Water	Benzo(a)pyrene	0.016 J	N.D.
PEI28	1397668	7095877	WS-004(0.5-1.0)061613 Grab Surface Water	Benzo(b)fluoranthene	0.020 J	0.036 J
PEI28	1397668	7095877	WS-004(0.5-1.0)061613 Grab Surface Water	Benzo(k)fluoranthene	0.016 J	0.013 J
PEI28	1397668	7095877	WS-004(0.5-1.0)061613 Grab Surface Water	Benzo(a)pyrene	0.014 J	0.015 J
PEI28	1397668	7095878	WS-007(Surface)061613 Grab Surface Water	Benzo(b)fluoranthene	0.11	0.27
PEI28	1397668	7095878	WS-007(Surface)061613 Grab Surface Water	Benzo(k)fluoranthene	0.050 J	0.09
PEI28	1397668	7095878	WS-007(Surface)061613 Grab Surface Water	Benzo(a)pyrene	0.082	0.052
PEI28	1397668	7095879	WS-007(Surface)061613 MS Grab Surface Water	Benzo(b)fluoranthene	0.83	1.1
PEI28	1397668	7095879	WS-007(Surface)061613 MS Grab Surface Water	Benzo(k)fluoranthene	0.89	0.88
PEI28	1397668	7095879	WS-007(Surface)061613 MS Grab Surface Water	Benzo(a)pyrene	0.86	0.9

SDG	Group	ELLE Sample No.	Client Sample Identification	Compound Name	Original Result (ug/L)	Revised Result (ug/L)
PEI28	1397668	7095880	WS-007(Surface)061613 MSD Grab Surface Water	Benzo(b)fluoranthene	0.88	1.1
PEI28	1397668	7095880	WS-007(Surface)061613 MSD Grab Surface Water	Benzo(k)fluoranthene	0.94	1.1
PEI28	1397668	7095880	WS-007(Surface)061613 MSD Grab Surface Water	Benzo(a)pyrene	1	0.94
PEI28	1397668	7095882	WS-007(0.5-1.0)061613 Grab Surface Water	Benzo(b)fluoranthene	1.5	3.7
PEI28	1397668	7095882	WS-007(0.5-1.0)061613 Grab Surface Water	Benzo(k)fluoranthene	0.97	1.4
PEI28	1397668	7095882	WS-007(0.5-1.0)061613 Grab Surface Water	Benzo(a)pyrene	1.2	0.89
PEI30	1397806	7096390	WS-004(0.5-1.0)061713 Grab Surface Water	Benzo(b)fluoranthene	0.026 J	0.041 J
PEI30	1397806	7096390	WS-004(0.5-1.0)061713 Grab Surface Water	Benzo(k)fluoranthene	0.019 J	0.021 J
PEI30	1397806	7096390	WS-004(0.5-1.0)061713 Grab Surface Water	Benzo(a)pyrene	0.020 J	0.018 J
PEI30	1397806	7096391	WS-007(Surface)061713 Grab Surface Water	Benzo(b)fluoranthene	0.015 J	0.021 J
PEI30	1397806	7096391	WS-007(Surface)061713 Grab Surface Water	Benzo(a)pyrene	0.011 J	N.D.
PEI30	1397806	7096392	WS-007(0.5-1.0)061713 Grab Surface Water	Benzo(b)fluoranthene	0.67	1.6
PEI30	1397806	7096392	WS-007(0.5-1.0)061713 Grab Surface Water	Benzo(k)fluoranthene	0.39	0.49
PEI30	1397806	7096392	WS-007(0.5-1.0)061713 Grab Surface Water	Benzo(a)pyrene	0.48	0.39
PEI30	1397806	7096395	DUP-WS-42-061713 Grab Surface Water	Benzo(b)fluoranthene	0.011 J	0.013 J
PEI32	1398099	7097737	WS-003(Surface)061813 Grab Surface Water	Benzo(b)fluoranthene	N.D.	0.014 J
PEI32	1398099	7097741	WS-008(Surface)061813MS Grab Surface Water	Benzo(b)fluoranthene	0.96	1.1
PEI32	1398099	7097741	WS-008(Surface)061813MS Grab Surface Water	Benzo(k)fluoranthene	0.51	0.99
PEI32	1398099	7097741	WS-008(Surface)061813MS Grab Surface Water	Benzo(a)pyrene	0.96	0.52
PEI32	1398099	7097742	WS-008(Surface)061813MSD Grab Surface Water	Benzo(b)fluoranthene	0.88	1
PEI32	1398099	7097742	WS-008(Surface)061813MSD Grab Surface Water	Benzo(k)fluoranthene	0.47	1
PEI32	1398099	7097742	WS-008(Surface)061813MSD Grab Surface Water	Benzo(a)pyrene	0.98	0.48

SDG	Group	ELLE Sample No.	Client Sample Identification	Compound Name	Original Result (ug/L)	Revised Result (ug/L)
PEI32	1398099	7097749	WS-007(0.5-1.0)061813 Grab Surface Water	Benzo(b)fluoranthene	0.22	0.45
PEI32	1398099	7097749	WS-007(0.5-1.0)061813 Grab Surface Water	Benzo(k)fluoranthene	0.13	0.16
PEI32	1398099	7097749	WS-007(0.5-1.0)061813 Grab Surface Water	Benzo(a)pyrene	0.16	0.13
PEI34	1398443	7099555	SO-NS40-EA-RB-01-061913 Grab Water	Benzo(a)pyrene	0.014 J	N.D.
PEI48	1399494	7105849	WG-NS50-PH-062413 Grab Groundwater	Benzo(b)fluoranthene	0.051 J	0.12
PEI48	1399494	7105849	WG-NS50-PH-062413 Grab Groundwater	Benzo(k)fluoranthene	0.051 J	0.049 J
PEI48	1399494	7105849	WG-NS50-PH-062413 Grab Groundwater	Benzo(a)pyrene	0.046 J	0.049 J

ATTACHMENT II

Sample delivery groups that will have revised raw data packages only.

Note: No sample results changed but quality control data was impacted.

Group	SDG
1396416	PEI16
1396792	PEI20
1397456	PEI25
1398761	PEI38
1399117	PEI41
1397675	PEI26
1397807	PEI31
1398111	PEI33

Sample Description: WS-003 (Surface) 061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096383
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 08:20 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 06/18/2013 09:40 PO Box 4416
Reported: 07/05/2013 08:42 Houston TX 77210-4416

17003 SDG#: PEI30-01

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

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

Sample Description: **WS-003 (Surface) 061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096383**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 08:20 by TM

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17003 SDG#: PEI30-01

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	0.054	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.054	1
08357	Anthracene	120-12-7	N.D.	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.054	1
08357	Chrysene	218-01-9	N.D.	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.054	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.054	1
08357	Fluorene	86-73-7	N.D.	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.054	1
08357	Naphthalene	91-20-3	N.D.	0.032	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	22.8	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	0.0214	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.21	0.0640	0.200	1

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

Sample Description: **WS-003 (Surface) 061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096383**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 08:20 by **TM** ExxonMobil
 Submitted: 06/18/2013 09:40 Mobil Pipeline Company
 Reported: 07/05/2013 08:42 PO Box 4416
 Houston TX 77210-4416

17003 SDG#: PEI30-01

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	2.39	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0013 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	C131692AA	06/18/2013 21:29	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131692AA	06/18/2013 21:29	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 04:25	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131746256001	06/23/2013 22:25	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131691848011	06/22/2013 00:16	John P Hook	1
07046	Barium	SW-846 6010B	1	131691848011	06/22/2013 00:16	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131691848011	06/22/2013 00:16	John P Hook	1
01750	Calcium	SW-846 6010B	1	131691848011	06/22/2013 00:16	John P Hook	1
07051	Chromium	SW-846 6010B	1	131691848011	06/22/2013 00:16	John P Hook	1
07055	Lead	SW-846 6010B	1	131691848011	06/22/2013 00:16	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131691848011	06/22/2013 00:16	John P Hook	1
07061	Nickel	SW-846 6010B	1	131691848011	06/22/2013 00:16	John P Hook	1
07036	Selenium	SW-846 6010B	1	131691848011	06/22/2013 00:16	John P Hook	1
07066	Silver	SW-846 6010B	1	131691848011	06/22/2013 00:16	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131691848011	06/22/2013 00:16	John P Hook	1
00259	Mercury	SW-846 7470A	1	131695713008	06/20/2013 07:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131691848011	06/19/2013 10:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131695713008	06/19/2013 15:30	Nelli S Markaryan	1

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

Sample Description: **WS-002 (Surface) 061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096384**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 08:40 by **TM** ExxonMobil
 Submitted: 06/18/2013 09:40 Mobil Pipeline Company
 Reported: 07/05/2013 08:42 PO Box 4416
 Houston TX 77210-4416

17002 SDG#: PEI30-02

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

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

Sample Description: **WS-002 (Surface) 061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096384**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 08:40 by **TM** ExxonMobil
 Submitted: 06/18/2013 09:40 Mobil Pipeline Company
 Reported: 07/05/2013 08:42 PO Box 4416
 Houston TX 77210-4416

17002 SDG#: PEI30-02

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	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	21.8	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	0.0226	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.97	0.0640	0.200	1

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

Sample Description: WS-002 (Surface) 061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096384
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 08:40 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 06/18/2013 09:40 PO Box 4416
Reported: 07/05/2013 08:42 Houston TX 77210-4416

17002 SDG#: PEI30-02

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	2.27	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	C131692AA	06/18/2013 21:52	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131692AA	06/18/2013 21:52	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 04:54	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131746256001	06/23/2013 22:25	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131691848011	06/22/2013 00:20	John P Hook	1
07046	Barium	SW-846 6010B	1	131691848011	06/22/2013 00:20	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131691848011	06/22/2013 00:20	John P Hook	1
01750	Calcium	SW-846 6010B	1	131691848011	06/22/2013 00:20	John P Hook	1
07051	Chromium	SW-846 6010B	1	131691848011	06/22/2013 00:20	John P Hook	1
07055	Lead	SW-846 6010B	1	131691848011	06/22/2013 00:20	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131691848011	06/22/2013 00:20	John P Hook	1
07061	Nickel	SW-846 6010B	1	131691848011	06/22/2013 00:20	John P Hook	1
07036	Selenium	SW-846 6010B	1	131691848011	06/22/2013 00:20	John P Hook	1
07066	Silver	SW-846 6010B	1	131691848011	06/22/2013 00:20	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131691848011	06/22/2013 00:20	John P Hook	1
00259	Mercury	SW-846 7470A	1	131695713008	06/20/2013 07:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131691848011	06/19/2013 10:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131695713008	06/19/2013 15:30	Nelli S Markaryan	1

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

Sample Description: **WS-005(Surface)061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096385**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 09:30 by TM

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17005 SDG#: PEI30-03

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

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

Sample Description: **WS-005 (Surface) 061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096385**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 09:30 by TM

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17005 SDG#: PEI30-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
			ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	22.6	0.064	0.20	1
SW-846 6010B						
			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0168	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.32	0.0640	0.200	1

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

Sample Description: WS-005 (Surface) 061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096385
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 09:30 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 06/18/2013 09:40 PO Box 4416
Reported: 07/05/2013 08:42 Houston TX 77210-4416

17005 SDG#: PEI30-03

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	2.27	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	C131692AA	06/18/2013 22:59	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131692AA	06/18/2013 22:59	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 05:23	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131746256001	06/23/2013 22:25	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131691848011	06/22/2013 00:24	John P Hook	1
07046	Barium	SW-846 6010B	1	131691848011	06/22/2013 00:24	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131691848011	06/22/2013 00:24	John P Hook	1
01750	Calcium	SW-846 6010B	1	131691848011	06/22/2013 00:24	John P Hook	1
07051	Chromium	SW-846 6010B	1	131691848011	06/22/2013 00:24	John P Hook	1
07055	Lead	SW-846 6010B	1	131691848011	06/22/2013 00:24	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131691848011	06/22/2013 00:24	John P Hook	1
07061	Nickel	SW-846 6010B	1	131691848011	06/22/2013 00:24	John P Hook	1
07036	Selenium	SW-846 6010B	1	131691848011	06/22/2013 00:24	John P Hook	1
07066	Silver	SW-846 6010B	1	131691848011	06/22/2013 00:24	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131691848011	06/22/2013 00:24	John P Hook	1
00259	Mercury	SW-846 7470A	1	131695713008	06/20/2013 07:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131691848011	06/19/2013 10:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131695713008	06/19/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-008 (Surface) 061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096386
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 10:00 by TM

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17008 SDG#: PEI30-04

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	9.1	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-008 (Surface) 061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096386
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 10:00 by TM

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17008 SDG#: PEI30-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL purge						
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						
08357	Acenaphthene	83-32-9	0.063	0.011	0.053	1
08357	Acenaphthylene	208-96-8	0.028 J	0.011	0.053	1
08357	Anthracene	120-12-7	0.013 J	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	0.017 J	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	0.036 J	0.011	0.053	1
08357	Fluorene	86-73-7	0.037 J	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	0.046 J	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.031 J	0.011	0.053	1
08357	Naphthalene	91-20-3	0.33	0.032	0.053	1
08357	Phenanthrene	85-01-8	0.041 J	0.032	0.053	1
08357	Pyrene	129-00-0	0.035 J	0.011	0.053	1
Metals SM 2340 B-1997						
06256	Total Hardness as CaCO3	471-34-1	93.5	0.064	0.20	1
SW-846 6010B						
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0664	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	20.5	0.0640	0.200	1

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

Sample Description: WS-008 (Surface) 061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096386
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 10:00 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 06/18/2013 09:40 PO Box 4416
Reported: 07/05/2013 08:42 Houston TX 77210-4416

17008 SDG#: PEI30-04

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	0.0016 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	10.3	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0064 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0016 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	C131692AA	06/18/2013 23:21	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131692AA	06/18/2013 23:21	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 05:53	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131746256001	06/23/2013 22:25	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131691848011	06/22/2013 00:28	John P Hook	1
07046	Barium	SW-846 6010B	1	131691848011	06/22/2013 00:28	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131691848011	06/22/2013 00:28	John P Hook	1
01750	Calcium	SW-846 6010B	1	131691848011	06/22/2013 00:28	John P Hook	1
07051	Chromium	SW-846 6010B	1	131691848011	06/22/2013 00:28	John P Hook	1
07055	Lead	SW-846 6010B	1	131691848011	06/22/2013 00:28	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131691848011	06/22/2013 00:28	John P Hook	1
07061	Nickel	SW-846 6010B	1	131691848011	06/22/2013 00:28	John P Hook	1
07036	Selenium	SW-846 6010B	1	131691848011	06/22/2013 00:28	John P Hook	1
07066	Silver	SW-846 6010B	1	131691848011	06/22/2013 00:28	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131691848011	06/22/2013 00:28	John P Hook	1
00259	Mercury	SW-846 7470A	1	131695713008	06/20/2013 07:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131691848011	06/19/2013 10:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131695713008	06/19/2013 15:30	Nelli S Markaryan	1

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

Sample Description: **WS-001(Surface)061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096387**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 10:20 by **TM** ExxonMobil
 Submitted: 06/18/2013 09:40 Mobil Pipeline Company
 Reported: 07/05/2013 08:42 PO Box 4416
 Houston TX 77210-4416

17011 SDG#: PEI30-05

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

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

Sample Description: WS-001(Surface)061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096387
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 10:20 by TM

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17011 SDG#: PEI30-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	22.2	0.064	0.20	1
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0284	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.10	0.0640	0.200	1

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

Sample Description: WS-001(Surface)061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096387
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 10:20 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 06/18/2013 09:40 PO Box 4416
Reported: 07/05/2013 08:42 Houston TX 77210-4416

17011 SDG#: PEI30-05

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	2.29	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0014 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	C131692AA	06/18/2013 23:43	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131692AA	06/18/2013 23:43	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 06:22	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131746256001	06/23/2013 22:25	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131691848011	06/22/2013 00:31	John P Hook	1
07046	Barium	SW-846 6010B	1	131691848011	06/22/2013 00:31	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131691848011	06/22/2013 00:31	John P Hook	1
01750	Calcium	SW-846 6010B	1	131691848011	06/22/2013 00:31	John P Hook	1
07051	Chromium	SW-846 6010B	1	131691848011	06/22/2013 00:31	John P Hook	1
07055	Lead	SW-846 6010B	1	131691848011	06/22/2013 00:31	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131691848011	06/22/2013 00:31	John P Hook	1
07061	Nickel	SW-846 6010B	1	131691848011	06/22/2013 00:31	John P Hook	1
07036	Selenium	SW-846 6010B	1	131691848011	06/22/2013 00:31	John P Hook	1
07066	Silver	SW-846 6010B	1	131691848011	06/22/2013 00:31	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131691848011	06/22/2013 00:31	John P Hook	1
00259	Mercury	SW-846 7470A	1	131695713008	06/20/2013 07:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131691848011	06/19/2013 10:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131695713008	06/19/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096388
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 10:30 by TM

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17012 SDG#: PEI30-06

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

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

Sample Description: WS-001(0.5-1.0)061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096388
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 10:30 by TM

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17012 SDG#: PEI30-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	22.1	0.064	0.20	1
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0267	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.08	0.0640	0.200	1

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

Sample Description: WS-001(0.5-1.0)061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096388
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 10:30 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 06/18/2013 09:40 PO Box 4416
Reported: 07/05/2013 08:42 Houston TX 77210-4416

17012 SDG#: PEI30-06

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	2.30	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	C131692AA	06/19/2013 00:05	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131692AA	06/19/2013 00:05	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 06:52	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131746256001	06/23/2013 22:25	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131691848011	06/22/2013 00:35	John P Hook	1
07046	Barium	SW-846 6010B	1	131691848011	06/22/2013 00:35	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131691848011	06/22/2013 00:35	John P Hook	1
01750	Calcium	SW-846 6010B	1	131691848011	06/22/2013 00:35	John P Hook	1
07051	Chromium	SW-846 6010B	1	131691848011	06/22/2013 00:35	John P Hook	1
07055	Lead	SW-846 6010B	1	131691848011	06/22/2013 00:35	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131691848011	06/22/2013 00:35	John P Hook	1
07061	Nickel	SW-846 6010B	1	131691848011	06/22/2013 00:35	John P Hook	1
07036	Selenium	SW-846 6010B	1	131691848011	06/22/2013 00:35	John P Hook	1
07066	Silver	SW-846 6010B	1	131691848011	06/22/2013 00:35	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131691848011	06/22/2013 00:35	John P Hook	1
00259	Mercury	SW-846 7470A	1	131695713008	06/20/2013 07:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131691848011	06/19/2013 10:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131695713008	06/19/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-004 (Surface) 061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096389
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 10:40 by TM

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17041 SDG#: PEI30-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	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	3.8 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: **WS-004(Surface)061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096389**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 10:40 by TM

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17041 SDG#: PEI30-07

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	0.3 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	0.018 J	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.012 J	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	16.4	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	0.0271	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	3.78	0.0640	0.200	1

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

Sample Description: WS-004 (Surface) 061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096389
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 10:40 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 06/18/2013 09:40 PO Box 4416
Reported: 07/05/2013 08:42 Houston TX 77210-4416

17041 SDG#: PEI30-07

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	0.0016 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.68	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0025 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0025 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	C131692AA	06/19/2013 00:27	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131692AA	06/19/2013 00:27	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 16:05	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131746256001	06/23/2013 22:25	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131691848011	06/21/2013 23:38	John P Hook	1
07046	Barium	SW-846 6010B	1	131691848011	06/21/2013 23:38	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131691848011	06/21/2013 23:38	John P Hook	1
01750	Calcium	SW-846 6010B	1	131691848011	06/21/2013 23:38	John P Hook	1
07051	Chromium	SW-846 6010B	1	131691848011	06/21/2013 23:38	John P Hook	1
07055	Lead	SW-846 6010B	1	131691848011	06/21/2013 23:38	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131691848011	06/21/2013 23:38	John P Hook	1
07061	Nickel	SW-846 6010B	1	131691848011	06/21/2013 23:38	John P Hook	1
07036	Selenium	SW-846 6010B	1	131691848011	06/21/2013 23:38	John P Hook	1
07066	Silver	SW-846 6010B	1	131691848011	06/21/2013 23:38	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131691848011	06/21/2013 23:38	John P Hook	1
00259	Mercury	SW-846 7470A	1	131695713008	06/20/2013 07:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131691848011	06/19/2013 10:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131695713008	06/19/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096390
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 10:50 by TM ExxonMobil
Submitted: 06/18/2013 09:40 Mobil Pipeline Company
Reported: 07/05/2013 08:42 PO Box 4416
Houston TX 77210-4416

17042 SDG#: PEI30-08

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

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

Sample Description: **WS-004(0.5-1.0)061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096390**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 10:50 by **TM** ExxonMobil
 Submitted: 06/18/2013 09:40 Mobil Pipeline Company
 Reported: 07/05/2013 08:42 PO Box 4416
 Houston TX 77210-4416

17042 SDG#: PEI30-08

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	4.4	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	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	0.018 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.018 J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.041 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.014 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.021 J	0.010	0.051	1
08357	Chrysene	218-01-9	0.036 J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.045 J	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	0.013 J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.020 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.014 J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	0.032 J	0.030	0.051	1
08357	Pyrene	129-00-0	0.041 J	0.010	0.051	1
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	24.1	0.064	0.20	1
SW-846 6010B						
			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0851	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.52	0.0640	0.200	1

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

Sample Description: WS-004(0.5-1.0)061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096390
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 10:50 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 06/18/2013 09:40 PO Box 4416
Reported: 07/05/2013 08:42 Houston TX 77210-4416

17042 SDG#: PEI30-08

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	0.0093 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0565	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.50	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0092 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	0.0075 J	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0123	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000076 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131692AA	06/19/2013 00:49	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131692AA	06/19/2013 00:49	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 16:35	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131746256001	06/23/2013 22:25	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131691848011	06/22/2013 00:39	John P Hook	1
07046	Barium	SW-846 6010B	1	131691848011	06/22/2013 00:39	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131691848011	06/22/2013 00:39	John P Hook	1
01750	Calcium	SW-846 6010B	1	131691848011	06/22/2013 00:39	John P Hook	1
07051	Chromium	SW-846 6010B	1	131691848011	06/22/2013 00:39	John P Hook	1
07055	Lead	SW-846 6010B	1	131691848011	06/22/2013 00:39	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131691848011	06/22/2013 00:39	John P Hook	1
07061	Nickel	SW-846 6010B	1	131691848011	06/22/2013 00:39	John P Hook	1
07036	Selenium	SW-846 6010B	1	131691848011	06/22/2013 00:39	John P Hook	1
07066	Silver	SW-846 6010B	1	131691848011	06/22/2013 00:39	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131691848011	06/22/2013 00:39	John P Hook	1
00259	Mercury	SW-846 7470A	1	131695713008	06/20/2013 07:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131691848011	06/19/2013 10:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131695713008	06/19/2013 15:30	Nelli S Markaryan	1

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

Sample Description: **WS-007 (Surface) 061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096391**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 11:00 by **TM** ExxonMobil
 Submitted: 06/18/2013 09:40 Mobil Pipeline Company
 Reported: 07/05/2013 08:42 PO Box 4416
 Houston TX 77210-4416

17071 SDG#: PEI30-09

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

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

Sample Description: **WS-007 (Surface) 061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096391**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 11:00 by **TM** ExxonMobil
 Submitted: 06/18/2013 09:40 Mobil Pipeline Company
 Reported: 07/05/2013 08:42 PO Box 4416
 Houston TX 77210-4416

17071 SDG#: PEI30-09

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	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	0.1 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.013 J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	0.016 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.013 J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.021 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.011 J	0.010	0.051	1
08357	Chrysene	218-01-9	0.033 J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.067	0.010	0.051	1
08357	Fluorene	86-73-7	0.015 J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.025 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.020 J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.049 J	0.031	0.051	1
08357	Pyrene	129-00-0	0.052	0.010	0.051	1
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	17.6	0.064	0.20	1
SW-846 6010B						
			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0356	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.05	0.0640	0.200	1

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

Sample Description: **WS-007 (Surface) 061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096391**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 11:00 by **TM** ExxonMobil
 Mobil Pipeline Company
 Submitted: 06/18/2013 09:40 PO Box 4416
 Reported: 07/05/2013 08:42 Houston TX 77210-4416

17071 SDG#: PEI30-09

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	0.0012 J	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	1.81	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0027 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0025 J	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000070	0.00020	1

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	C131692AA	06/19/2013 01:11	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131692AA	06/19/2013 01:11	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 17:04	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131746256001	06/23/2013 22:25	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131691848011	06/22/2013 00:43	John P Hook	1
07046	Barium	SW-846 6010B	1	131691848011	06/22/2013 00:43	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131691848011	06/22/2013 00:43	John P Hook	1
01750	Calcium	SW-846 6010B	1	131691848011	06/22/2013 00:43	John P Hook	1
07051	Chromium	SW-846 6010B	1	131691848011	06/22/2013 00:43	John P Hook	1
07055	Lead	SW-846 6010B	1	131691848011	06/22/2013 00:43	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131691848011	06/22/2013 00:43	John P Hook	1
07061	Nickel	SW-846 6010B	1	131691848011	06/22/2013 00:43	John P Hook	1
07036	Selenium	SW-846 6010B	1	131691848011	06/22/2013 00:43	John P Hook	1
07066	Silver	SW-846 6010B	1	131691848011	06/22/2013 00:43	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131691848011	06/22/2013 00:43	John P Hook	1
00259	Mercury	SW-846 7470A	1	131695713008	06/20/2013 07:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131691848011	06/19/2013 10:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131695713008	06/19/2013 15:30	Nelli S Markaryan	1

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

Sample Description: **WS-007(0.5-1.0)061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096392**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 11:10 by **TM** ExxonMobil
 Submitted: 06/18/2013 09:40 Mobil Pipeline Company
 Reported: 07/05/2013 08:42 PO Box 4416
 Houston TX 77210-4416

17072 SDG#: PEI30-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	5.4	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-007(0.5-1.0)061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096392
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 11:10 by TM

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17072 SDG#: PEI30-10

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	8.0	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.053	0.010	0.052	1
08357	Acenaphthylene	208-96-8	0.11	0.010	0.052	1
08357	Anthracene	120-12-7	0.20	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.43	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.39	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	1.6	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.23	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.49	0.010	0.052	1
08357	Chrysene	218-01-9	1.2	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.070	0.010	0.052	1
08357	Fluoranthene	206-44-0	2.2	0.010	0.052	1
08357	Fluorene	86-73-7	0.049 J	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.26	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.037 J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.040 J	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.57	0.031	0.052	1
08357	Pyrene	129-00-0	1.9	0.010	0.052	1
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	29.5	0.064	0.20	1
SW-846 6010B						
			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0081 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.161	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.20	0.0640	0.200	1

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

Sample Description: WS-007(0.5-1.0)061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096392
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 11:10 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 06/18/2013 09:40 PO Box 4416
Reported: 07/05/2013 08:42 Houston TX 77210-4416

17072 SDG#: PEI30-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0178	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0380	0.0051	0.0150	1
01757	Magnesium	7439-95-4	4.01	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0160	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	0.0259	0.0013	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00010 J	0.000070	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131692AA	06/19/2013 01:32	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131692AA	06/19/2013 01:32	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 17:34	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131746256001	06/23/2013 22:25	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131691848011	06/22/2013 00:47	John P Hook	1
07046	Barium	SW-846 6010B	1	131691848011	06/22/2013 00:47	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131691848011	06/22/2013 00:47	John P Hook	1
01750	Calcium	SW-846 6010B	1	131691848011	06/22/2013 00:47	John P Hook	1
07051	Chromium	SW-846 6010B	1	131691848011	06/22/2013 00:47	John P Hook	1
07055	Lead	SW-846 6010B	1	131691848011	06/22/2013 00:47	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131691848011	06/22/2013 00:47	John P Hook	1
07061	Nickel	SW-846 6010B	1	131691848011	06/22/2013 00:47	John P Hook	1
07036	Selenium	SW-846 6010B	1	131691848011	06/22/2013 00:47	John P Hook	1
07066	Silver	SW-846 6010B	1	131691848011	06/22/2013 00:47	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131691848011	06/22/2013 00:47	John P Hook	1
00259	Mercury	SW-846 7470A	1	131695713008	06/20/2013 08:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131691848011	06/19/2013 10:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131695713008	06/19/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-006 (Surface) 061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096393
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 11:20 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 06/18/2013 09:40 PO Box 4416
Reported: 07/05/2013 08:42 Houston TX 77210-4416

17061 SDG#: PEI30-11

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

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

Sample Description: **WS-006 (Surface) 061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096393**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 11:20 by TM

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17061 SDG#: PEI30-11

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	
06256	Total Hardness as CaCO3	471-34-1	21.8	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	0.0219	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	5.01	0.0640	0.200	1

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

Sample Description: WS-006 (Surface) 061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096393
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 11:20 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 06/18/2013 09:40 PO Box 4416
Reported: 07/05/2013 08:42 Houston TX 77210-4416

17061 SDG#: PEI30-11

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	2.25	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	C131692AA	06/19/2013 01:55	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131692AA	06/19/2013 01:55	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 18:04	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131746256001	06/23/2013 22:25	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131691848011	06/22/2013 00:50	John P Hook	1
07046	Barium	SW-846 6010B	1	131691848011	06/22/2013 00:50	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131691848011	06/22/2013 00:50	John P Hook	1
01750	Calcium	SW-846 6010B	1	131691848011	06/22/2013 00:50	John P Hook	1
07051	Chromium	SW-846 6010B	1	131691848011	06/22/2013 00:50	John P Hook	1
07055	Lead	SW-846 6010B	1	131691848011	06/22/2013 00:50	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131691848011	06/22/2013 00:50	John P Hook	1
07061	Nickel	SW-846 6010B	1	131691848011	06/22/2013 00:50	John P Hook	1
07036	Selenium	SW-846 6010B	1	131691848011	06/22/2013 00:50	John P Hook	1
07066	Silver	SW-846 6010B	1	131691848011	06/22/2013 00:50	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131691848011	06/22/2013 00:50	John P Hook	1
00259	Mercury	SW-846 7470A	1	131695713008	06/20/2013 08:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131691848011	06/19/2013 10:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131695713008	06/19/2013 15:30	Nelli S Markaryan	1

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

Sample Description: **WS-006(0.5-1.0)061713 Grab Surface Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096394**
 LL Group # **1397806**
 Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013 11:30 by TM ExxonMobil
 Submitted: 06/18/2013 09:40 Mobil Pipeline Company
 Reported: 07/05/2013 08:42 PO Box 4416
 Houston TX 77210-4416

17062 SDG#: PEI30-12

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

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

Sample Description: WS-006(0.5-1.0)061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096394
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 11:30 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/18/2013 09:40

PO Box 4416

Reported: 07/05/2013 08:42

Houston TX 77210-4416

17062 SDG#: PEI30-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
			ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	21.5	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	0.0239	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	4.95	0.0640	0.200	1

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

Sample Description: WS-006(0.5-1.0)061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096394
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 11:30 by TM ExxonMobil
Mobil Pipeline Company
Submitted: 06/18/2013 09:40 PO Box 4416
Reported: 07/05/2013 08:42 Houston TX 77210-4416

17062 SDG#: PEI30-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0051	0.0150	1
01757	Magnesium	7439-95-4	2.23	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0011 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	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	C131692AA	06/19/2013 02:17	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131692AA	06/19/2013 02:17	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 18:33	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131746256001	06/23/2013 22:25	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131691848011	06/22/2013 01:02	John P Hook	1
07046	Barium	SW-846 6010B	1	131691848011	06/22/2013 01:02	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131691848011	06/22/2013 01:02	John P Hook	1
01750	Calcium	SW-846 6010B	1	131691848011	06/22/2013 01:02	John P Hook	1
07051	Chromium	SW-846 6010B	1	131691848011	06/22/2013 01:02	John P Hook	1
07055	Lead	SW-846 6010B	1	131691848011	06/22/2013 01:02	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131691848011	06/22/2013 01:02	John P Hook	1
07061	Nickel	SW-846 6010B	1	131691848011	06/22/2013 01:02	John P Hook	1
07036	Selenium	SW-846 6010B	1	131691848011	06/22/2013 01:02	John P Hook	1
07066	Silver	SW-846 6010B	1	131691848011	06/22/2013 01:02	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131691848011	06/22/2013 01:02	John P Hook	1
00259	Mercury	SW-846 7470A	1	131695713008	06/20/2013 08:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131691848011	06/19/2013 10:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131695713008	06/19/2013 15:30	Nelli S Markaryan	1

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

Sample Description: DUP-WS-42-061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096395
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 by TM

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17D42 SDG#: PEI30-13FD

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	8.3	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: DUP-WS-42-061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096395
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 by TM

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17D42 SDG#: PEI30-13FD

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	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM						
			ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	0.064	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.028 J	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	0.013 J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	0.020 J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.042 J	0.010	0.051	1
08357	Fluorene	86-73-7	0.041 J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.040 J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.031 J	0.010	0.051	1
08357	Naphthalene	91-20-3	0.31	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.038 J	0.031	0.051	1
08357	Pyrene	129-00-0	0.028 J	0.010	0.051	1
Metals SM 2340 B-1997						
			mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	93.9	0.064	0.20	1
SW-846 6010B						
			mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0675	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00036	0.0050	1
01750	Calcium	7440-70-2	20.7	0.0640	0.200	1

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

Sample Description: DUP-WS-42-061713 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096395
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013 by TM

ExxonMobil

Mobil Pipeline Company

Submitted: 06/18/2013 09:40

PO Box 4416

Reported: 07/05/2013 08:42

Houston TX 77210-4416

17D42 SDG#: PEI30-13FD

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	
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	10.3	0.0606	0.100	1
07061	Nickel	7440-02-0	0.0058 J	0.0011	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0075	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0012	0.0050	1
07071	Vanadium	7440-62-2	0.0017 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	C131692AA	06/19/2013 02:39	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131692AA	06/19/2013 02:39	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13169WAD026	06/23/2013 19:03	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13169WAD026	06/19/2013 08:20	Catherine R Wiker	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131746256001	06/23/2013 22:25	Parker D Lindstrom	1
07035	Arsenic	SW-846 6010B	1	131691848011	06/22/2013 01:05	John P Hook	1
07046	Barium	SW-846 6010B	1	131691848011	06/22/2013 01:05	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131691848011	06/22/2013 01:05	John P Hook	1
01750	Calcium	SW-846 6010B	1	131691848011	06/22/2013 01:05	John P Hook	1
07051	Chromium	SW-846 6010B	1	131691848011	06/22/2013 01:05	John P Hook	1
07055	Lead	SW-846 6010B	1	131691848011	06/22/2013 01:05	John P Hook	1
01757	Magnesium	SW-846 6010B	1	131691848011	06/22/2013 01:05	John P Hook	1
07061	Nickel	SW-846 6010B	1	131691848011	06/22/2013 01:05	John P Hook	1
07036	Selenium	SW-846 6010B	1	131691848011	06/22/2013 01:05	John P Hook	1
07066	Silver	SW-846 6010B	1	131691848011	06/22/2013 01:05	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131691848011	06/22/2013 01:05	John P Hook	1
00259	Mercury	SW-846 7470A	1	131695713008	06/20/2013 08:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131691848011	06/19/2013 10:15	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131695713008	06/19/2013 15:30	Nelli S Markaryan	1

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

Sample Description: **WS-TB-75-061713 Water**
Mayflower, AR
Pipeline Incident

LL Sample # **WW 7096396**
LL Group # **1397806**
Account # **14739**

Project Name: **Mayflower, AR Pipeline Incident**

Collected: 06/17/2013

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17T75 SDG#: PEI30-14TB*

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

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

Sample Description: WS-TB-75-061713 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7096396
LL Group # 1397806
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/17/2013

ExxonMobil

Submitted: 06/18/2013 09:40

Mobil Pipeline Company

Reported: 07/05/2013 08:42

PO Box 4416

Houston TX 77210-4416

17T75 SDG#: PEI30-14TB*

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	C131692AA	06/18/2013 20:23	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131692AA	06/18/2013 20:23	Kevin A Sposito	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/05/13 at 08:42 AM

Group Number: 1397806

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: C131692AA	Sample number(s): 7096383-7096396								
Acetone	N.D.	3.0	5.0	ug/l	106		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	88		61-130		
Benzene	N.D.	0.1	0.5	ug/l	104		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	114		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	106		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	117		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	96		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	99		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	97		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	112		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	110		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	92		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	107		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	81		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	103		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	104		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	107		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	115		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	108		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	107		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	74		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	99		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	106		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	110		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	111		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	118		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	106		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	101		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	104		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	107		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	99		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	97		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	112		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	97		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: 1397806

Reported: 07/05/13 at 08:42 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>LCS/LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Isopropylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	100		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	99		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	98		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	109		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
Styrene	N.D.	0.1	0.5	ug/l	109		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	109		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	100		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	107		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	104		65-131		
Toluene	N.D.	0.1	0.5	ug/l	104		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	80		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	86		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	109		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	97		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	105		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	87		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	105		80-120		

Batch number: 13169WAD026

Sample number(s): 7096383-7096395

Acenaphthene	N.D.	0.010	0.050	ug/l	100		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	113		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	107		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	100		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	96		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	93		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	109		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	102		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	89		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	102		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	91		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	107		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	105		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	102		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	102		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	103		71-116		

Batch number: 131691848011

Sample number(s): 7096383-7096395

Arsenic	N.D.	0.0068	0.0200	mg/l	102		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	102		90-110		
Cadmium	N.D.	0.00036	0.0050	mg/l	102		90-112		
Calcium	N.D.	0.0640	0.200	mg/l	104		90-110		
Chromium	N.D.	0.0011	0.0150	mg/l	98		90-110		
Lead	N.D.	0.0051	0.0150	mg/l	104		88-110		
Magnesium	N.D.	0.0606	0.100	mg/l	101		90-110		
Nickel	N.D.	0.0011	0.0100	mg/l	105		90-111		
Selenium	N.D.	0.0075	0.0200	mg/l	105		80-120		
Silver	N.D.	0.0012	0.0050	mg/l	100		80-120		
Vanadium	N.D.	0.0013	0.0050	mg/l	99		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
Reported: 07/05/13 at 08:42 AM

Group Number: 1397806

<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: 131695713008	Sample number(s): 7096383-7096395								
Mercury	N.D.	0.00007	0.00020	mg/l	103		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: C131692AA	Sample number(s): 7096383-7096396 UNSPK: 7096384								
Acetone	122	117	57-163	5	30				
Allyl Chloride	91	94	67-139	3	30				
Benzene	108	110	87-126	1	30				
Bromobenzene	105	108	80-123	3	30				
Bromochloromethane	117	115	82-125	2	30				
Bromodichloromethane	108	110	82-133	2	30				
Bromoform	116	118	60-138	2	30				
Bromomethane	101	95	41-145	6	30				
2-Butanone	116	100	63-146	15	30				
n-Butylbenzene	99	99	83-131	0	30				
sec-Butylbenzene	103	104	84-128	1	30				
tert-Butylbenzene	105	107	84-135	1	30				
Carbon Tetrachloride	122	121	81-148	0	30				
Chlorobenzene	114	115	78-133	0	30				
Chloroethane	96	93	70-139	3	30				
Chloroform	111	113	86-136	2	30				
Chloromethane	85	81	55-152	4	30				
2-Chlorotoluene	104	106	81-120	2	30				
4-Chlorotoluene	107	109	82-119	2	30				
1,2-Dibromo-3-chloropropane	125	111	43-143	12	30				
Dibromochloromethane	115	118	79-125	2	30				
1,2-Dibromoethane	108	108	84-127	1	30				
Dibromomethane	109	110	83-126	1	30				
1,2-Dichlorobenzene	106	107	83-117	1	30				
1,3-Dichlorobenzene	106	109	81-118	3	30				
1,4-Dichlorobenzene	106	109	79-120	3	30				
Dichlorodifluoromethane	80	72	28-136	10	30				
1,1-Dichloroethane	105	107	88-136	2	30				
1,2-Dichloroethane	107	110	82-135	3	30				
1,1-Dichloroethene	116	120	83-150	3	30				
cis-1,2-Dichloroethene	110	112	82-129	1	30				
trans-1,2-Dichloroethene	117	118	88-127	1	30				
Dichlorofluoromethane	125	121	59-176	4	30				
1,2-Dichloropropane	108	111	91-126	2	30				
1,3-Dichloropropane	102	104	80-127	2	30				
2,2-Dichloropropane	109	111	80-134	2	30				
1,1-Dichloropropene	113	117	86-139	3	30				
cis-1,3-Dichloropropene	95	101	74-132	6	30				
trans-1,3-Dichloropropene	98	103	71-128	4	30				
Ethyl ether	96	95	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 Summary

Client Name: ExxonMobil
Reported: 07/05/13 at 08:42 AM

Group Number: 1397806

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</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</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	108	108	80-140	0	30				
Freon 113	120	114	87-158	5	30				
Hexachlorobutadiene	95	97	65-128	2	30				
Isopropylbenzene	108	108	81-133	1	30				
p-Isopropyltoluene	102	104	84-124	1	30				
Methyl Tertiary Butyl Ether	92	96	82-132	5	30				
4-Methyl-2-Pentanone	88	94	69-149	7	30				
Methylene Chloride	112	111	84-122	0	30				
n-Propylbenzene	102	103	79-131	1	30				
Styrene	112	113	63-151	1	30				
1,1,1,2-Tetrachloroethane	113	114	87-126	1	30				
1,1,2,2-Tetrachloroethane	98	99	75-131	1	30				
Tetrachloroethene	116	117	75-129	1	30				
Tetrahydrofuran	122	104	56-154	16	30				
Toluene	110	111	83-127	1	30				
1,2,3-Trichlorobenzene	76	83	73-125	9	30				
1,2,4-Trichlorobenzene	82	87	77-120	7	30				
1,1,1-Trichloroethane	114	115	85-140	1	30				
1,1,2-Trichloroethane	110	111	85-129	2	30				
Trichloroethene	114	116	85-131	2	30				
Trichlorofluoromethane	107	99	67-161	8	30				
1,2,3-Trichloropropane	101	104	76-120	3	30				
1,2,4-Trimethylbenzene	103	105	87-126	2	30				
1,3,5-Trimethylbenzene	103	105	89-129	2	30				
Vinyl Chloride	94	89	65-151	5	30				
Xylene (Total)	110	110	81-137	1	30				

Batch number: 13169WAD026 Sample number(s): 7096383-7096395 UNSPK: P095878

Acenaphthene	96	99	59-127	4	30				
Acenaphthylene	107	108	33-146	2	30				
Anthracene	94	96	69-119	4	30				
Benzo(a)anthracene	79	71	67-124	8	30				
Benzo(a)pyrene	82	84	64-123	4	30				
Benzo(b)fluoranthene	94	96	61-133	3	30				
Benzo(g,h,i)perylene	47	47	36-138	0	30				
Benzo(k)fluoranthene	82	98	59-128	18	30				
Chrysene	71	63	62-118	8	30				
Dibenz(a,h)anthracene	57	62	32-141	10	30				
Fluoranthene	73	79	65-123	6	30				
Fluorene	102	103	69-124	3	30				
Indeno(1,2,3-cd)pyrene	55	55	29-143	2	30				
1-Methylnaphthalene	97	105	67-117	9	30				
2-Methylnaphthalene	101	105	71-126	6	30				
Naphthalene	100	108	58-131	10	30				
Phenanthrene	102	106	67-117	5	30				
Pyrene	82	67	59-125	14	30				

Batch number: 131691848011 Sample number(s): 7096383-7096395 UNSPK: 7096389 BKG: 7096389

Arsenic	104	103	81-123	1	20	N.D.	N.D.	0 (1)	20
Barium	101	103	78-118	1	20	0.0271	0.0274	1	20
Cadmium	101	101	83-116	0	20	N.D.	N.D.	0 (1)	20
Calcium	106	102	81-118	2	20	3.78	3.82	1	20

*- 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: 07/05/13 at 08:42 AM

Group Number: 1397806

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</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</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</u> <u>RPD</u> <u>Max</u>
Chromium	99	100	81-120	2	20	0.0016 J	0.0013 J	27* (1)	20
Lead	107	107	75-125	0	20	N.D.	N.D.	0 (1)	20
Magnesium	105	102	75-125	2	20	1.68	1.70	1	20
Nickel	104	104	86-115	0	20	0.0025 J	0.0021 J	16 (1)	20
Selenium	105	105	75-125	0	20	N.D.	0.0082 J	200* (1)	20
Silver	98	101	75-125	3	20	N.D.	N.D.	0 (1)	20
Vanadium	99	101	90-111	2	20	0.0025 J	0.0029 J	15 (1)	20

Batch number: 131695713008
Mercury

Sample number(s): 7096383-7096395 UNSPK: 7096393 BKG: 7096393
100 103 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: BTEX 25-ml purge
Batch number: C131692AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7096383	109	105	98	94
7096384	109	105	97	94
7096385	109	106	98	94
7096386	109	107	97	94
7096387	110	106	98	93
7096388	110	106	97	94
7096389	110	106	97	94
7096390	110	104	97	94
7096391	110	104	97	93
7096392	109	105	96	93
7096393	110	106	97	93
7096394	110	107	97	93
7096395	109	108	97	94
7096396	107	104	98	94
Blank	107	104	97	94
LCS	105	105	100	99
MS	106	103	101	100
MSD	105	103	101	99

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

Analysis Name: PAHs in waters by SIM
Batch number: 13169WAD026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7096383	94	67	100
7096384	83	71	83
7096385	88	76	98

*- Outside of specification

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

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/05/13 at 08:42 AM

Group Number: 1397806

Surrogate Quality Control

7096386	81	70	111
7096387	91	78	99
7096388	87	79	92
7096389	79	85	100
7096390	75	77	97
7096391	88	89	105
7096392	72	73	97
7096393	94	70	96
7096394	91	73	98
7096395	81	73	113
Blank	86	95	93
LCS	93	98	102
MS	82	90	98
MSD	93	93	99
<hr/>			
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.

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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 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.

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

Inorganic Qualifiers

A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

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

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

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

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

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