

ANALYTICAL RESULTS

Prepared by:

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2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

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

July 02, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 06/25/2013

Group Number: 1399492

SDG: PEI47

PO Number: 4510076246

Release Number: MAYFLOWER 1406

State of Sample Origin: AR

Client Sample Description

Lancaster Labs (LL)

WS-003(Surface)062413 Grab Surface Water	7105830
WS-002(Surface)062413 Grab Surface Water	7105831
WS-005(Surface)062413 Grab Surface Water	7105832
WS-001(Surface)062413 Grab Surface Water	7105833
WS-001(0.5-1.0)062413 Grab Surface Water	7105834
WS-004(Surface)062413 Grab Surface Water	7105835
WS-004(0.5-1.0)062413 Grab Surface Water	7105836
WS-007(Surface)062413 Grab Surface Water	7105837
WS-007(Surface)062413MS Grab Surface Water	7105838
WS-007(Surface)062413MSD Grab Surface Water	7105839
WS-007(Surface)062413DUP Grab Surface Water	7105840
WS-007(0.5-1.0)062413 Grab Surface Water	7105841
WS-006(Surface)062413 Grab Surface Water	7105842
WS-006(0.5-1.0)062413 Grab Surface Water	7105843
WS-TB-81-062413 Water	7105844
WS-FB-38-062413 Grab Water	7105845

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

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ELECTRONIC	ARCADIS	Attn: Rhiannon Parmalee
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ELECTRONIC	ARCADIS	Attn: Jamie Pritchard
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ELECTRONIC	ExxonMobil	Attn: Michael L Sixsmith
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ELECTRONIC	ExxonMobil	Attn: Julie Foster
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ELECTRONIC	ExxonMobil	Attn: Carl Wideman
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Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1399492

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

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

Batch #: I131761AA (Sample number(s): 7105830-7105839, 7105841-7105844 UNSPK: 7105837)

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

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13176WAH026 (Sample number(s): 7105830-7105839, 7105841-7105843 UNSPK: 7105837)

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

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7105830, 7105831, 7105832, 7105833, 7105834, 7105842, 7105843

Sample #s: 7105841

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

Sample #s: 7105830, 7105831, 7105832, 7105833, 7105834, 7105842, 7105843

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

SW-846 6010B, Metals

Batch #: 131761848001 (Sample number(s): 7105830-7105843, 7105845 UNSPK: 7105837 BKG: 7105837)

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

Sample Description: WS-003(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105830
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 08:50 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24003 SDG#: PEI47-01

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)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105830
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 08:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24003 SDG#: PEI47-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	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
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	25.0	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0209	0.00033	0.0050	1

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

Sample Description: WS-003(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105830
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 08:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24003 SDG#: PEI47-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.70	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.63	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	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	I131761AA	06/25/2013 18:36	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131761AA	06/25/2013 18:36	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13176WAH026	07/01/2013 19:12	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13176WAH026	06/26/2013 09:20	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131836256001	07/02/2013 15:30	Robert Strocko Jr	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 13:24	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 09:45	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 09:45	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131761848001	06/26/2013 09:45	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 09:45	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 09:45	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 09:45	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 13:24	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 09:45	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 09:45	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 09:45	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 07:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105831
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 09:50 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24002 SDG#: PEI47-02

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)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105831
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 09:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24002 SDG#: PEI47-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	24.8	0.033	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	0.0251	0.00033	0.0050	1

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

Sample Description: WS-002(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105831
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 09:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24002 SDG#: PEI47-02

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	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.72	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.57	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	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	I131761AA	06/25/2013 18:57	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131761AA	06/25/2013 18:57	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13176WAH026	07/01/2013 19:41	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13176WAH026	06/26/2013 09:20	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131836256001	07/02/2013 15:30	Robert Strocko Jr	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 13:27	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 09:49	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 09:49	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131761848001	06/26/2013 09:49	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 09:49	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 09:49	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 09:49	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 13:27	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 09:49	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 09:49	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 09:49	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 07:47	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105832
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:00 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24005 SDG#: PEI47-03

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)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105832
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:00 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24005 SDG#: PEI47-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	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
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997		mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	22.5	0.033	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	0.0132	0.00033	0.0050	1

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

Sample Description: WS-005(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105832
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:00 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24005 SDG#: PEI47-03

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	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.21	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.31	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	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	I131761AA	06/25/2013 19:18	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131761AA	06/25/2013 19:18	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13176WAH026	07/01/2013 20:11	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13176WAH026	06/26/2013 09:20	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131836256001	07/02/2013 15:30	Robert Strocko Jr	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 13:31	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 09:53	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 09:53	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131761848001	06/26/2013 09:53	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 09:53	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 09:53	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 09:53	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 13:31	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 09:53	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 09:53	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 09:53	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 07:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-001(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105833
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:20 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24011 SDG#: PEI47-04

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

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

Sample Description: WS-001(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105833
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24011 SDG#: PEI47-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	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
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	24.5	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0319	0.00033	0.0050	1

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

Sample Description: WS-001(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105833
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24011 SDG#: PEI47-04

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	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.54	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0018 J	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.59	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0030 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.0033 J	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	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	I131761AA	06/25/2013 19:39	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131761AA	06/25/2013 19:39	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13176WAH026	07/01/2013 20:41	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13176WAH026	06/26/2013 09:20	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131836256001	07/02/2013 15:30	Robert Strocko Jr	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 13:35	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 09:57	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 09:57	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131761848001	06/26/2013 09:57	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 09:57	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 13:35	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 09:57	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 13:35	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 09:57	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 09:57	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 09:57	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 07:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105834
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:30 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24012 SDG#: PEI47-05

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(0.5-1.0)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105834
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:30 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24012 SDG#: PEI47-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.014 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	0.011 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	0.024 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	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	0.019 J	0.010	0.051	1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	23.4	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0215	0.00033	0.0050	1

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

Sample Description: WS-001(0.5-1.0)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105834
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:30 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24012 SDG#: PEI47-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.31	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.46	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	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	I131761AA	06/25/2013 19:59	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131761AA	06/25/2013 19:59	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13176WAH026	07/01/2013 21:10	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13176WAH026	06/26/2013 09:20	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131836256001	07/02/2013 15:30	Robert Strocko Jr	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 13:39	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 10:00	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 10:00	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131761848001	06/26/2013 10:00	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 10:00	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 10:00	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 10:00	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 13:39	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 10:00	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 10:00	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 10:00	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 07:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-004(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105835
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:40 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24041 SDG#: PEI47-06

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	3.0 J	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	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)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105835
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:40 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24041 SDG#: PEI47-06

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	0.7	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	0.017 J	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.055	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	N.D.	0.011	0.055	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	20.0	0.033	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	0.0946	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	4.70	0.0334	0.200	1

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

Sample Description: WS-004(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105835
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:40 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24041 SDG#: PEI47-06

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.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.00	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0032 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.0037 J	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	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	I131761AA	06/25/2013 20:20	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131761AA	06/25/2013 20:20	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13176WAH026	07/01/2013 21:40	Holly Berry	1
10470	BNW Water Extraction (SIM)	SW-846 3510C	1	13176WAH026	06/26/2013 09:20	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256011	06/28/2013 12:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 13:43	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 10:04	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 10:04	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131781848001	06/28/2013 10:06	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 10:04	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 10:04	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 10:04	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 13:43	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 10:04	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 10:04	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 10:04	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 07:55	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131781848001	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105836
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:50 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24042 SDG#: PEI47-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	3.7 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)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105836
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:50 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24042 SDG#: PEI47-07

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	3.0	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	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	0.027 J	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.053	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.10	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.045 J	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.033 J	0.010	0.052	1
08357	Chrysene	218-01-9	0.057	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.040 J	0.010	0.052	1
08357	Fluorene	86-73-7	0.016 J	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.035 J	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.042 J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.049 J	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.037 J	0.031	0.052	1
08357	Pyrene	129-00-0	0.044 J	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	32.7	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0138 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.180	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	7.29	0.0334	0.200	1

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

Sample Description: WS-004(0.5-1.0)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105836
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 10:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24042 SDG#: PEI47-07

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	0.0273	0.0016	0.0150	1
07055	Lead	7439-92-1	0.133	0.0047	0.0150	1
01757	Magnesium	7439-95-4	3.53	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0233	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.0332	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	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	I131761AA	06/25/2013 20:41	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131761AA	06/25/2013 20:41	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13176WAH026	07/01/2013 22:09	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13176WAH026	06/26/2013 09:20	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131836256001	07/02/2013 15:30	Robert Strocko Jr	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 13:54	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 10:08	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 10:08	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131761848001	06/26/2013 10:08	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 10:08	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 13:54	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 10:08	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 13:54	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 10:08	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 10:08	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 10:08	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 07:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105837
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:10 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24071 SDG#: PEI47-08BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	3.9 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)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105837
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:10 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24071 SDG#: PEI47-08BKG

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	0.016 J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	0.022 J	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.058	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.046 J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.18	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.036 J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.055	0.010	0.051	1
08357	Chrysene	218-01-9	0.14	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	0.25	0.010	0.051	1
08357	Fluorene	86-73-7	0.018 J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.038 J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.016 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	0.083	0.030	0.051	1
08357	Pyrene	129-00-0	0.19	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	20.1	0.033	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	0.0586	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	4.42	0.0334	0.200	1

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

Sample Description: WS-007(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105837
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:10 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24071 SDG#: PEI47-08BKG

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	0.0033 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0062 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.20	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0038 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.0044 J	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	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	I131761AA	06/25/2013 15:07	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131761AA	06/25/2013 15:07	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13176WAH026	06/30/2013 16:37	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13176WAH026	06/26/2013 09:20	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256011	06/28/2013 12:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 12:34	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 08:54	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 08:54	Joanne M Gates	1
01750	Calcium	SW-846 6010B	2	131781848001	06/28/2013 09:40	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 08:54	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 12:34	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 08:54	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 12:34	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 08:54	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 08:54	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 08:54	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 07:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131781848001	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)062413MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105838
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:10 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24071 SDG#: PEI47-08MS

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	36	3.0	5.0	1
02898	Allyl Chloride	107-05-1	3.8	0.1	0.5	1
02898	Benzene	71-43-2	4.7	0.1	0.5	1
02898	Bromobenzene	108-86-1	4.2	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.5	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	4.3	0.1	0.5	1
02898	Bromoform	75-25-2	3.8	0.1	0.5	1
02898	Bromomethane	74-83-9	5.4	0.1	0.5	1
02898	2-Butanone	78-93-3	36	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	4.7	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	4.7	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	4.5	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	4.7	0.1	0.5	1
02898	Chlorobenzene	108-90-7	4.7	0.1	0.5	1
02898	Chloroethane	75-00-3	5.4	0.1	0.5	1
02898	Chloroform	67-66-3	4.7	0.1	0.5	1
02898	Chloromethane	74-87-3	5.6	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	4.5	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	4.5	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.7	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	4.1	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.4	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.3	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	4.6	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	4.5	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	4.5	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	5.4	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	4.6	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.5	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.0	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	4.6	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	4.9	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.2	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	4.7	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.3	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	4.4	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.0	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.3	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.1	0.1	0.5	1
02898	Ethyl ether	60-29-7	3.1	0.1	0.5	1
02898	Ethylbenzene	100-41-4	4.7	0.1	0.5	1
02898	Freon 113	76-13-1	4.9	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.1	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	4.8	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	4.6	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.2	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	21	1.0	5.0	1
02898	Methylene Chloride	75-09-2	4.5	0.2	0.5	1

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

Sample Description: WS-007(Surface)062413MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105838
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:10 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24071 SDG#: PEI47-08MS

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	4.6	0.1	0.5	1
02898	Styrene	100-42-5	4.6	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	4.4	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.2	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	4.8	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	24	2.0	5.0	1
02898	Toluene	108-88-3	5.0	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.1	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.2	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	4.6	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	4.5	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.0	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.5	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.3	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	4.5	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	4.6	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.9	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	14	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.1	0.010	0.052	1
08357	Acenaphthylene	208-96-8	1.2	0.010	0.052	1
08357	Anthracene	120-12-7	1.1	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.92	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.96	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	1.0	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.76	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.97	0.010	0.052	1
08357	Chrysene	218-01-9	1.0	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.85	0.010	0.052	1
08357	Fluoranthene	206-44-0	1.2	0.010	0.052	1
08357	Fluorene	86-73-7	1.2	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	1.2	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.010	0.052	1
08357	Naphthalene	91-20-3	1.1	0.031	0.052	1
08357	Phenanthrene	85-01-8	1.2	0.031	0.052	1
08357	Pyrene	129-00-0	1.1	0.010	0.052	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO3	471-34-1	40.6	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.158	0.0068	0.0200	1
07046	Barium	7440-39-3	2.12	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0504	0.00076	0.0050	1
01750	Calcium	7440-70-2	8.89	0.0334	0.200	1

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

Sample Description: WS-007(Surface)062413MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105838
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:10 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24071 SDG#: PEI47-08MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.209	0.0016	0.0150	1
07055	Lead	7439-92-1	0.165	0.0047	0.0150	1
01757	Magnesium	7439-95-4	4.48	0.0167	0.100	1
07061	Nickel	7440-02-0	0.532	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.151	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0517	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.531	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0011	0.000060	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	I131761AA	06/25/2013 15:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131761AA	06/25/2013 15:28	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13176WAH026	06/30/2013 17:06	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13176WAH026	06/26/2013 09:20	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256011	06/28/2013 12:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 12:45	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 09:06	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 09:06	Joanne M Gates	1
01750	Calcium	SW-846 6010B	2	131781848001	06/28/2013 09:51	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 09:06	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 12:45	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 09:06	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 12:45	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 09:06	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 09:06	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 09:06	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 08:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131781848001	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)062413MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105839
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:10 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24071 SDG#: PEI47-08MSD

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	35	3.0	5.0	1
02898	Allyl Chloride	107-05-1	3.9	0.1	0.5	1
02898	Benzene	71-43-2	4.7	0.1	0.5	1
02898	Bromobenzene	108-86-1	4.1	0.1	0.5	1
02898	Bromochloromethane	74-97-5	4.6	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	4.3	0.1	0.5	1
02898	Bromoform	75-25-2	3.8	0.1	0.5	1
02898	Bromomethane	74-83-9	5.2	0.1	0.5	1
02898	2-Butanone	78-93-3	34	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	4.5	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	4.5	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	4.3	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	4.6	0.1	0.5	1
02898	Chlorobenzene	108-90-7	4.6	0.1	0.5	1
02898	Chloroethane	75-00-3	5.3	0.1	0.5	1
02898	Chloroform	67-66-3	4.7	0.1	0.5	1
02898	Chloromethane	74-87-3	5.5	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	4.3	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	4.3	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	4.4	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	4.1	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	4.4	0.1	0.5	1
02898	Dibromomethane	74-95-3	4.3	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	4.4	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	4.3	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	4.4	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	5.5	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	4.5	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.5	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	4.9	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	4.6	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	4.8	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.0	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	4.7	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	4.3	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	4.4	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	5.0	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.3	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.1	0.1	0.5	1
02898	Ethyl ether	60-29-7	3.1	0.1	0.5	1
02898	Ethylbenzene	100-41-4	4.6	0.1	0.5	1
02898	Freon 113	76-13-1	4.8	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	3.8	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	4.7	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	4.4	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.2	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	21	1.0	5.0	1
02898	Methylene Chloride	75-09-2	4.4	0.2	0.5	1

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

Sample Description: WS-007(Surface)062413MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105839
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:10 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24071 SDG#: PEI47-08MSD

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	4.4	0.1	0.5	1
02898	Styrene	100-42-5	4.5	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	4.4	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.1	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	4.6	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	23	2.0	5.0	1
02898	Toluene	108-88-3	4.9	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	3.9	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.0	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	4.6	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	4.4	0.1	0.5	1
02898	Trichloroethene	79-01-6	4.9	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.2	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	4.3	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	4.4	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	4.4	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.7	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	14	0.1	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.1	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.2	0.010	0.051	1
08357	Anthracene	120-12-7	1.1	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.92	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.96	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	1.0	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.88	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.96	0.010	0.051	1
08357	Chrysene	218-01-9	1.0	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.93	0.010	0.051	1
08357	Fluoranthene	206-44-0	1.1	0.010	0.051	1
08357	Fluorene	86-73-7	1.1	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.94	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.2	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.010	0.051	1
08357	Naphthalene	91-20-3	1.1	0.031	0.051	1
08357	Phenanthrene	85-01-8	1.2	0.031	0.051	1
08357	Pyrene	129-00-0	1.1	0.010	0.051	1
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	40.2	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.157	0.0068	0.0200	1
07046	Barium	7440-39-3	2.11	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0500	0.00076	0.0050	1
01750	Calcium	7440-70-2	8.53	0.0334	0.200	1

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

Sample Description: WS-007(Surface)062413MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105839
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:10 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24071 SDG#: PEI47-08MSD

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	0.211	0.0016	0.0150	1
07055	Lead	7439-92-1	0.165	0.0047	0.0150	1
01757	Magnesium	7439-95-4	4.60	0.0167	0.100	1
07061	Nickel	7440-02-0	0.528	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.152	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0514	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.531	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0011	0.000060	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	I131761AA	06/25/2013 15:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131761AA	06/25/2013 15:49	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13176WAH026	06/30/2013 17:36	Holly Berry	1
10470	BNH Water Extraction (SIM)	SW-846 3510C	1	13176WAH026	06/26/2013 09:20	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256011	06/28/2013 12:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 12:49	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 09:10	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 09:10	Joanne M Gates	1
01750	Calcium	SW-846 6010B	2	131781848001	06/28/2013 09:55	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 09:10	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 12:49	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 09:10	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 12:49	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 09:10	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 09:10	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 09:10	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 08:09	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131781848001	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)062413DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105840
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:10 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24071 SDG#: PEI47-08DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals			SM 2340 B-1997	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	20.1	0.033	0.20	1
			SW-846 6010B	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0079 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0570	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	4.46	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0034 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0061 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.17	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0038 J	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.0057	0.0020	0.0050	1
			SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131796256011	06/28/2013 12:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 12:41	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 09:02	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 09:02	Joanne M Gates	1
01750	Calcium	SW-846 6010B	2	131781848001	06/28/2013 09:47	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 09:02	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 12:41	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 09:02	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 12:41	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 09:02	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 09:02	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 09:02	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 08:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131781848001	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105841
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:20 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24072 SDG#: PEI47-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	6.6	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	1.1 J	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)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105841
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:20 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24072 SDG#: PEI47-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	11	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	0.12	0.011	0.054	1
08357	Acenaphthylene	208-96-8	0.42	0.011	0.054	1
08357	Anthracene	120-12-7	0.70	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	1.6	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	1.3	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	5.1	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	0.79	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	1.8	0.011	0.054	1
08357	Chrysene	218-01-9	4.9	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	0.25	0.011	0.054	1
08357	Fluoranthene	206-44-0	5.6	0.011	0.054	1
08357	Fluorene	86-73-7	0.085	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.88	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	0.042 J	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	0.050 J	0.011	0.054	1
08357	Naphthalene	91-20-3	0.046 J	0.033	0.054	1
08357	Phenanthrene	85-01-8	1.2	0.033	0.054	1
08357	Pyrene	129-00-0	4.9	0.011	0.054	1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: acenaphthylene						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l		
06256	Total Hardness as CaCO3	471-34-1	52.4	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l		
07035	Arsenic	7440-38-2	0.0192 J	0.0068	0.0200	1

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

Sample Description: WS-007(0.5-1.0)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105841
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:20 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24072 SDG#: PEI47-09

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	
07046	Barium	7440-39-3	0.331	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	8.87	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0386	0.0016	0.0150	1
07055	Lead	7439-92-1	0.126	0.0047	0.0150	1
01757	Magnesium	7439-95-4	7.35	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0334	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.0581	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	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	I131761AA	06/25/2013 21:02	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131761AA	06/25/2013 21:02	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13176WAH026	07/01/2013 22:39	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13176WAH026	06/26/2013 09:20	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131836256001	07/02/2013 15:30	Robert Strocko Jr	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 10:20	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 10:20	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 10:20	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131761848001	06/26/2013 10:20	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 10:20	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 10:20	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 10:20	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 10:20	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 10:20	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 10:20	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 10:20	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 08:11	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-006(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105842
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:40 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24061 SDG#: PEI47-10

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

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

Sample Description: WS-006(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105842
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:40 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24061 SDG#: PEI47-10

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	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
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	23.7	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0227	0.00033	0.0050	1

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

Sample Description: WS-006(Surface)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105842
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:40 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24061 SDG#: PEI47-10

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	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.37	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.49	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	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	I131761AA	06/25/2013 21:23	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131761AA	06/25/2013 21:23	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13176WAH026	07/01/2013 23:08	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13176WAH026	06/26/2013 09:20	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131836256001	07/02/2013 15:30	Robert Strocko Jr	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 10:24	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 10:24	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 10:24	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131761848001	06/26/2013 10:24	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 10:24	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 10:24	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 10:24	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 10:24	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 10:24	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 10:24	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 10:24	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 08:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105843
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:50 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24062 SDG#: PEI47-11

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(0.5-1.0)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105843
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:50 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24062 SDG#: PEI47-11

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
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.						
Metals	SM 2340 B-1997	mg/l	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	23.7	0.033	0.20	1
	SW-846 6010B	mg/l	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0231	0.00033	0.0050	1

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

Sample Description: WS-006(0.5-1.0)062413 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105843
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 11:50 by JW

ExxonMobil

Mobil Pipeline Company

Submitted: 06/25/2013 09:15

PO Box 4416

Reported: 07/02/2013 15:34

Houston TX 77210-4416

24062 SDG#: PEI47-11

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	
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.40	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.49	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	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	I131761AA	06/25/2013 21:44	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131761AA	06/25/2013 21:44	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13176WAH026	07/01/2013 23:38	Holly Berry	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13176WAH026	06/26/2013 09:20	Katheryne V Sponheimer	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131836256001	07/02/2013 15:30	Robert Strocko Jr	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 10:27	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 10:27	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 10:27	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131761848001	06/26/2013 10:27	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 10:27	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 10:27	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 10:27	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 10:27	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 10:27	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 10:27	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 10:27	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 08:15	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Sample Description: WS-TB-81-062413 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105844
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24T81 SDG#: PEI47-12TB

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-81-062413 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105844
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24T81 SDG#: PEI47-12TB

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	I131761AA	06/25/2013 14:46	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131761AA	06/25/2013 14:46	Jason M Long	1

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

Sample Description: WS-FB-38-062413 Grab Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7105845
LL Group # 1399492
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/24/2013 13:00 by JW

ExxonMobil

Submitted: 06/25/2013 09:15

Mobil Pipeline Company

Reported: 07/02/2013 15:34

PO Box 4416

Houston TX 77210-4416

24F38 SDG#: PEI47-13FB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SM 2340 B-1997	mg/l	mg/l	mg/l	
06256	Total Hardness as CaCO ₃	471-34-1	0.17 J	0.033	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	N.D.	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	0.0675 J	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	N.D.	0.0167	0.100	1
07061	Nickel	7440-02-0	N.D.	0.0015	0.0100	1
07036	Selenium	7782-49-2	N.D.	0.0084	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0021	0.0050	1
07071	Vanadium	7440-62-2	N.D.	0.0020	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO ₃	SM 2340 B-1997	1	131796256011	06/28/2013 12:30	Jennifer L Moyer	1
07035	Arsenic	SW-846 6010B	1	131761848001	06/26/2013 10:31	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131761848001	06/26/2013 10:31	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	131761848001	06/26/2013 10:31	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	131781848001	06/28/2013 10:18	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	131761848001	06/26/2013 10:31	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	131761848001	06/26/2013 10:31	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	131761848001	06/26/2013 10:31	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	131761848001	06/26/2013 10:31	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	131761848001	06/26/2013 10:31	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	131761848001	06/26/2013 10:31	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	131761848001	06/26/2013 10:31	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	131765713004	06/26/2013 08:17	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131761848001	06/25/2013 23:00	Annamaria Stipkovits	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	2	131781848001	06/27/2013 23:30	Annamaria Stipkovits	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131765713004	06/25/2013 16:10	Nelli S Markaryan	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 07/02/13 at 03:34 PM

Group Number: 1399492

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: I131761AA	Sample number(s): 7105830-7105839, 7105841-7105844								
Acetone	N.D.	3.0	5.0	ug/l	83		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	77		61-130		
Benzene	N.D.	0.1	0.5	ug/l	94		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	87		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	94		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	87		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	81		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	107		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	91		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	93		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	90		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	91		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	95		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	107		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	95		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	110		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	92		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	92		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	91		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	84		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	93		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	88		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	95		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	93		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	94		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	107		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	89		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	92		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	94		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	92		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	96		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	121		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	94		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	90		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	87		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	97		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	88		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	85		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	67		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	92		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	93		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	85		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: 1399492

Reported: 07/02/13 at 03:34 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Isopropylbenzene	N.D.	0.1	0.5	ug/l	94		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	93		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	87		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	88		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	90		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	93		80-120		
Styrene	N.D.	0.1	0.5	ug/l	94		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	91		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	90		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	94		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	95		65-131		
Toluene	N.D.	0.1	0.5	ug/l	94		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	87		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	88		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	91		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	93		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	97		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	98		77-132		
1,2,3-Trichloropropane	N.D.	0.3	1.0	ug/l	93		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	93		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	93		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	113		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	94		80-120		

Batch number: 13176WAH026

Sample number(s): 7105830-7105839,7105841-7105843

Acenaphthene	N.D.	0.010	0.050	ug/l	106		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	114*		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	109		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	101		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	107		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	116		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	105		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	115		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	108		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	107		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	113		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	107		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	106		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	113		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	107		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	106		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	108		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	105		71-116		

Batch number: 131761848001

Sample number(s): 7105830-7105843,7105845

Arsenic	N.D.	0.0068	0.0200	mg/l	102		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	102		90-112		
Calcium	0.267	0.0334	0.200	mg/l	105		90-110		
Chromium	N.D.	0.0016	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	104		88-110		
Magnesium	N.D.	0.0167	0.100	mg/l	100		90-110		
Nickel	N.D.	0.0015	0.0100	mg/l	106		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	101		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	104		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	104		90-110		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: ExxonMobil

Group Number: 1399492

Reported: 07/02/13 at 03:34 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 131765713004	Sample number(s): 7105830-7105843,7105845								
Mercury	N.D.	0.00006	0.00020	mg/l	108		80-120		
		0							
Batch number: 131781848001	Sample number(s): 7105835,7105837-7105840,7105845								
Calcium	0.0579 J	0.0334	0.200	mg/l	103		90-110		

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: I131761AA	Sample number(s): 7105830-7105839,7105841-7105844 UNSPK: 7105837								
Acetone	85	84	57-163	2	30				
Allyl Chloride	75	78	67-139	4	30				
Benzene	95	94	87-126	1	30				
Bromobenzene	84	81	80-123	3	30				
Bromochloromethane	90	92	82-125	2	30				
Bromodichloromethane	85	85	82-133	0	30				
Bromoform	75	75	60-138	0	30				
Bromomethane	107	105	41-145	2	30				
2-Butanone	96	91	63-146	5	30				
n-Butylbenzene	94	90	83-131	5	30				
sec-Butylbenzene	93	89	84-128	5	30				
tert-Butylbenzene	90	86	84-135	4	30				
Carbon Tetrachloride	95	93	81-148	2	30				
Chlorobenzene	94	92	78-133	2	30				
Chloroethane	108	105	70-139	2	30				
Chloroform	94	94	86-136	1	30				
Chloromethane	113	110	55-152	3	30				
2-Chlorotoluene	91	86	81-120	6	30				
4-Chlorotoluene	90	87	82-119	3	30				
1,2-Dibromo-3-chloropropane	94	88	43-143	6	30				
Dibromochloromethane	82	81	79-125	0	30				
1,2-Dibromoethane	89	88	84-127	1	30				
Dibromomethane	87	86	83-126	1	30				
1,2-Dichlorobenzene	91	89	83-117	3	30				
1,3-Dichlorobenzene	91	86	81-118	5	30				
1,4-Dichlorobenzene	91	88	79-120	4	30				
Dichlorodifluoromethane	108	110	28-136	1	30				
1,1-Dichloroethane	91	90	88-136	1	30				
1,2-Dichloroethane	90	90	82-135	1	30				
1,1-Dichloroethene	99	97	83-150	2	30				
cis-1,2-Dichloroethene	93	91	82-129	2	30				
trans-1,2-Dichloroethene	98	97	88-127	2	30				
Dichlorofluoromethane	124	120	59-176	4	30				
1,2-Dichloropropane	94	93	91-126	1	30				
1,3-Dichloropropane	87	86	80-127	1	30				
2,2-Dichloropropane	88	89	80-134	1	30				
1,1-Dichloropropene	101	99	86-139	1	30				

*- Outside of specification

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

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

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

Quality Control SummaryClient Name: ExxonMobil
Reported: 07/02/13 at 03:34 PM

Group Number: 1399492

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
cis-1,3-Dichloropropene	86	86	74-132	0	30				
trans-1,3-Dichloropropene	81	82	71-128	0	30				
Ethyl ether	62*	62*	67-127	0	30				
Ethylbenzene	93	91	80-140	2	30				
Freon 113	99	96	87-158	3	30				
Hexachlorobutadiene	82	77	65-128	7	30				
Isopropylbenzene	96	93	81-133	3	30				
p-Isopropyltoluene	92	87	84-124	5	30				
Methyl Tertiary Butyl Ether	83	84	82-132	1	30				
4-Methyl-2-Pentanone	83	83	69-149	1	30				
Methylene Chloride	89	88	84-122	1	30				
n-Propylbenzene	92	89	79-131	4	30				
Styrene	92	90	63-151	2	30				
1,1,1,2-Tetrachloroethane	89	88	87-126	1	30				
1,1,2,2-Tetrachloroethane	84	83	75-131	1	30				
Tetrachloroethene	96	93	75-129	4	30				
Tetrahydrofuran	96	92	56-154	5	30				
Toluene	94	93	83-127	1	30				
1,2,3-Trichlorobenzene	82	78	73-125	5	30				
1,2,4-Trichlorobenzene	84	80	77-120	4	30				
1,1,1-Trichloroethane	93	91	85-140	2	30				
1,1,2-Trichloroethane	89	87	85-129	2	30				
Trichloroethene	99	98	85-131	1	30				
Trichlorofluoromethane	110	103	67-161	7	30				
1,2,3-Trichloropropane	85	85	76-120	0	30				
1,2,4-Trimethylbenzene	91	87	87-126	4	30				
1,3,5-Trimethylbenzene	92	89	89-129	4	30				
Vinyl Chloride	118	114	65-151	3	30				
Xylene (Total)	94	92	81-137	2	30				

Batch number: 13176WAH026 Sample number(s): 7105830-7105839,7105841-7105843 UNSPK: 7105837

Acenaphthene	105	105	59-127	1	30
Acenaphthylene	113	112	33-146	2	30
Anthracene	106	103	69-119	5	30
Benzo(a)anthracene	83	84	67-124	0	30
Benzo(a)pyrene	88	89	64-123	0	30
Benzo(b)fluoranthene	84	84	61-133	1	30
Benzo(g,h,i)perylene	70	82	36-138	14	30
Benzo(k)fluoranthene	88	88	59-128	2	30
Chrysene	85	84	62-118	2	30
Dibenz(a,h)anthracene	82	90	32-141	9	30
Fluoranthene	90	86	65-123	4	30
Fluorene	111	109	69-124	3	30
Indeno(1,2,3-cd)pyrene	77	88	29-143	12	30
1-Methylnaphthalene	112	111	67-117	2	30
2-Methylnaphthalene	107	107	71-126	1	30
Naphthalene	107	112	58-131	3	30
Phenanthrene	108	110	67-117	1	30
Pyrene	91	87	59-125	5	30

Batch number: 131761848001 Sample number(s): 7105830-7105843,7105845 UNSPK: 7105837 BKG: 7105837
Arsenic 105 105 81-123 1 20 N.D. 0.0079 J 200* (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 SummaryClient Name: ExxonMobil
Reported: 07/02/13 at 03:34 PM

Group Number: 1399492

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Barium	103	103	78-118	0	20	0.0586	0.0570	3	20
Cadmium	101	100	83-116	1	20	N.D.	N.D.	0 (1)	20
Calcium	108	98	81-118	5	20	4.65	4.59	1	20
Chromium	103	104	81-120	1	20	0.0033 J	0.0034 J	2 (1)	20
Lead	106	106	75-125	0	20	0.0062 J	0.0061 J	1 (1)	20
Magnesium	114	120	75-125	3	20	2.20	2.17	1	20
Nickel	106	105	86-115	1	20	0.0038 J	0.0038 J	1 (1)	20
Selenium	101	102	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	103	103	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	105	105	90-111	0	20	0.0044 J	0.0057	26* (1)	20

Batch number: 131765713004

Sample number(s): 7105830-7105843,7105845 UNSPK: 7105837 BKG: 7105837

Mercury 105 109 80-120 3 20 N.D. N.D. 0 (1) 20

Batch number: 131781848001

Sample number(s): 7105835,7105837-7105840,7105845 UNSPK: 7105837 BKG: 7105837

Calcium 112 103 81-118 4 20 4.42 4.46 1 20

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

Analysis Name: BTEX 25-ml purge

Batch number: I131761AA

Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene

7105830	96	104	97	95
7105831	96	102	98	96
7105832	97	103	97	95
7105833	97	102	98	94
7105834	97	103	98	94
7105835	96	102	98	95
7105836	97	100	97	94
7105837	97	103	98	96
7105838	98	102	98	100
7105839	98	103	99	101
7105841	96	99	97	94
7105842	96	99	98	94
7105843	97	103	97	95
7105844	96	100	98	95
Blank	96	100	98	96
LCS	97	99	99	99
MS	98	102	98	100
MSD	98	103	99	101

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

Analysis Name: PAHs in waters by SIM

Batch number: 13176WAH026

*- 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: 1399492

Reported: 07/02/13 at 03:34 PM

Surrogate Quality Control

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7105830	92	48*	99
7105831	86	53*	97
7105832	75	44*	90
7105833	84	50*	96
7105834	80	56*	96
7105835	71	77	86
7105836	68	72	96
7105837	92	84	101
7105838	92	88	106
7105839	87	89	105
7105841	78	66	102
7105842	86	47*	100
7105843	92	53*	101
Blank	96	98	98
LCS	101	103	106
MS	92	88	106
MSD	87	89	105
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.



**Lancaster
Laboratories**

Acct. # 14739

For Eurofins Lancaster Laboratories use only
Group # 1399492 Sample # 7105830-45
Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information										4 Matrix		5 Analyses Requested										6					
Facility #/SID MAYFLOWER PIPELINE INCIDENT										Ground ☐ Surface ☒ Potable ☐ NPDES ☐ Oil ☐ Air ☐ Total # of Containers		Preservation Code										SCR#:					
Site Address MAYFLOWER, AR.												Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other										6 Remarks DATA ANALYSIS QUESTIONS: ARCADIS/LYNDI MATT					
ExxonMobil PM SCOTT BUSHLOE					Cost Center/AFE																						
Consultant/Office ARCADIS-US																											
Consultant PM STEVE BARRICK					Consultant Phone # (919) 302-6799																						
Sampler J. WALDRON / H. VAN ALLER										3																	
2 Sample Identification										Collected		Grab		Composite													
										Date		Time															
WS-003 (SURFACE) 06/24/13										6/24/13		0850		X													
WS-002 (SURFACE) 06/24/13										6/24/13		0950		X													
WS-005 (SURFACE) 06/24/13										6/24/13		1000		X													
WS-001 (SURFACE) 06/24/13										6/24/13		1020		X													
WS-001 (0.5-1.0) 06/24/13										6/24/13		1030		X													
WS-004 (SURFACE) 06/24/13										6/24/13		1040		X													
WS-004 (0.5-1.0) 06/24/13										6/24/13		1050		X													
WS-007 (SURFACE) 06/24/13										6/24/13		1110		X													
WS-007 (SURFACE) 06/24/13-MS/MS										6/24/13		1110		X												MS/MSD TAKEN	
WS-007 (0.5-1.0) 06/24/13										6/24/13		1120		X													
WS-006 (SURFACE) 06/24/13										6/24/13		1140		X													
WS-006 (0.5-1.0) 06/24/13										6/24/13		1150		X													
7 Turnaround Time Requested (TAT) (please circle)										Relinquished by		Date		Time		Received by		Date		Time							
Standard 5 day 4 day										[Signature]		6/24/13		1600		[Signature]											
72 hour 48 hour 24 hour										Relinquished by		Date		Time		Received by		Time									
										Relinquished by		Date		Time		Received by		Time									
8 Data Package (circle if required)										Relinquished by Commercial Carrier		Date		Time		Received by		Time									
Type I - Full										UPS		FedEx X		Other		[Signature]		0915									
Type VI (Raw Data)										Temperature Upon Receipt		12-24 °C		Custody Seals Intact?		Yes No											
NJ Reduced																											
Other																											

For Eurofins Lancaster Laboratories use only
Acct. # 14739 Group # 1399492 Sample # 7105830-45 2 of 2
Instructions on reverse side correspond with circled numbers.

[illegible]

Issued by Dept. 40 Management

7053 0413

Rachel L. Kreamer A# 14739 Gr. 1399492 Samples 7105830-45

From: Mott, Lyndi [Lyndi.Mott@arcadis-us.com]
Sent: Monday, June 24, 2013 6:32 PM
To: Rachel L. Kreamer; SA Env Entry
Cc: Pritchard, Jamie; Kull, Valerie; Patel, Dakshesh; Lipka, Shelby; Chandler, Jennifer
Subject: RE: Mayflower COCs Surface water sampling 062413

Rachel,

Please login the groundwater sample WG-NS50-PH 062413 in its own group for a 24 hr TAT.

Thank you,
Lyndi Mott

From: Van Aller, Hans
Sent: Monday, June 24, 2013 5:02 PM
To: Van Aller, Hans; KKlinefelter@lanasterlabs.com; Mott, Lyndi; Barrick, Stephen; Brewer, Stacey; Kull, Valerie; SA Env Entry; Capria, Dennis; Rachel L. Kreamer; McKenzie, Mary; Chandler, Jennifer
Cc: Molina, Joe; Lipka, Shelby; Parmelee, Rhiannon; Pritchard, Jamie; Waldron, Jason
Subject: Mayflower COCs Surface water sampling 062413

Hello All

Attached are the COCs from today's surface water sampling activities. WG-NS50-PH 062413 needs to be switched to a 24 hour TAT. It is the ground water sample from a pot hole in the neighborhood.

Thanks,

Hans H. van Aller IV | Field Tech 3 | Hans.VanAller@arcadis-us.com
ARCADIS U.S., Inc. | 630 Plaza Drive, Suite 100 | Highlands Ranch, CO 80129
T. 720.344.3500 | M.720.635.0173 | F. 720.344.3535

www.arcadis-us.com

ARCADIS, Imagine the result

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6/25/2013

Environmental Sample Administration
Receipt Documentation Log

1399492

Client/Project:

Exxon mobil

Shipping Container Sealed:

YES

NO

Date of Receipt:

6-25-13

Custody Seal Present * :

YES

NO

Time of Receipt:

915

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

Source Code:

50-1

Package:

Chilled

Not Chilled

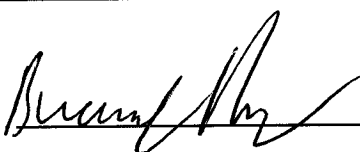
Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.2	TB	WI	Y	B	
2	↓	2.4	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:

2299
964 ③ 008 6-25-13

Date/Time: 6/25/13

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

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

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