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: 06/22/2013
Group Number: 1399118
SDG: PEI40
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LL) #
WS-003(Surface)062113 Grab Surface Water	7104169
WS-002(Surface)062113 Grab Surface Water	7104170
WS-005(Surface)062113 Grab Surface Water	7104171
WS-001(Surface)062113 Grab Surface Water	7104172
WS-001(0.5-1.0)062113 Grab Surface Water	7104173
WS-004(Surface)062113 Grab Surface Water	7104174
WS-004(0.5-1.0)062113 Grab Surface Water	7104175
WS-007(Surface)062113 Grab Surface Water	7104176
WS-007(0.5-1.0)062113 Grab Surface Water	7104177
WS-006(Surface)062113 Grab Surface Water	7104178
WS-006(0.5-1.0)062113 Grab Surface Water	7104179
DUP-WS-44-062113 Grab Surface Water	7104180
WS-TB-79-062113 Water	7104181

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

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

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

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LLI Group #: 1399118

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

Analysis Specific Comments:

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13175WAF026 (Sample number(s): 7104169-7104180)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7104169, 7104170, 7104171, 7104172, 7104173, 7104178, 7104179

Sample #s: 7104169, 7104170, 7104171, 7104172, 7104173, 7104178, 7104179

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

Sample Description: WS-003(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104169
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 08:00 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M3S21 SDG#: PEI40-01

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104169
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 08:00 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M3S21 SDG#: PEI40-01

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
	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 CaCO3	471-34-1	23.0	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	0.0185	0.00033	0.0050	1

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

Sample Description: WS-003(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104169
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 08:00 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M3S21 SDG#: PEI40-01

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	5.21	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	2.42	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0019 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	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	I131751AA	06/24/2013 12:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131751AA	06/24/2013 12:26	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13175WAF026	06/25/2013 13:03	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13175WAF026	06/24/2013 16:55	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 05:40	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131741848001	06/27/2013 19:39	John P Hook	1
07046	Barium	SW-846 6010B	1	131741848001	06/27/2013 19:39	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131741848001	06/27/2013 19:39	John P Hook	1
01750	Calcium	SW-846 6010B	1	131741848001	06/27/2013 19:39	John P Hook	1
07051	Chromium	SW-846 6010B	1	131741848001	06/27/2013 19:39	John P Hook	1
07055	Lead	SW-846 6010B	1	131741848001	06/28/2013 14:27	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131741848001	06/27/2013 19:39	John P Hook	1
07061	Nickel	SW-846 6010B	1	131741848001	06/27/2013 19:39	John P Hook	1
07036	Selenium	SW-846 6010B	1	131741848001	06/27/2013 19:39	John P Hook	1
07066	Silver	SW-846 6010B	1	131741848001	06/27/2013 19:39	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131741848001	06/27/2013 19:39	John P Hook	1
00259	Mercury	SW-846 7470A	1	131745713001	06/24/2013 11:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131741848001	06/24/2013 10:04	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131745713001	06/24/2013 06:55	Damary Valentin	1

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

Sample Description: WS-002(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104170
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 08:20 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M2S21 SDG#: PEI40-02

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104170
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 08:20 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M2S21 SDG#: PEI40-02

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
	The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	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	0.0201	0.00033	0.0050	1

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

Sample Description: WS-002(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104170
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 08:20 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M2S21 SDG#: PEI40-02

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	5.20	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	2.30	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	I131751AA	06/24/2013 12:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131751AA	06/24/2013 12:47	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13175WAF026	06/25/2013 13:33	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13175WAF026	06/24/2013 16:55	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 05:40	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131741848001	06/27/2013 19:42	John P Hook	1
07046	Barium	SW-846 6010B	1	131741848001	06/27/2013 19:42	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131741848001	06/27/2013 19:42	John P Hook	1
01750	Calcium	SW-846 6010B	1	131741848001	06/27/2013 19:42	John P Hook	1
07051	Chromium	SW-846 6010B	1	131741848001	06/27/2013 19:42	John P Hook	1
07055	Lead	SW-846 6010B	1	131741848001	06/28/2013 14:31	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131741848001	06/27/2013 19:42	John P Hook	1
07061	Nickel	SW-846 6010B	1	131741848001	06/27/2013 19:42	John P Hook	1
07036	Selenium	SW-846 6010B	1	131741848001	06/27/2013 19:42	John P Hook	1
07066	Silver	SW-846 6010B	1	131741848001	06/27/2013 19:42	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131741848001	06/27/2013 19:42	John P Hook	1
00259	Mercury	SW-846 7470A	1	131745713001	06/24/2013 11:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131741848001	06/24/2013 10:04	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131745713001	06/24/2013 06:55	Damary Valentin	1

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

Sample Description: WS-005(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104171
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 08:40 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M5S21 SDG#: PEI40-03

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 purge**		ug/l	ug/l	ug/l	
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)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104171
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 08:40 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M5S21 SDG#: PEI40-03

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
	The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.					
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	23.3	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	0.0230	0.00033	0.0050	1

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

Sample Description: WS-005(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104171
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 08:40 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M5S21 SDG#: PEI40-03

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	5.57	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	2.28	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	I131751AA	06/24/2013 13:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131751AA	06/24/2013 13:08	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13175WAF026	06/25/2013 14:03	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13175WAF026	06/24/2013 16:55	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 05:40	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131741848001	06/27/2013 19:46	John P Hook	1
07046	Barium	SW-846 6010B	1	131741848001	06/27/2013 19:46	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131741848001	06/27/2013 19:46	John P Hook	1
01750	Calcium	SW-846 6010B	1	131741848001	06/27/2013 19:46	John P Hook	1
07051	Chromium	SW-846 6010B	1	131741848001	06/27/2013 19:46	John P Hook	1
07055	Lead	SW-846 6010B	1	131741848001	06/28/2013 14:34	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131741848001	06/27/2013 19:46	John P Hook	1
07061	Nickel	SW-846 6010B	1	131741848001	06/27/2013 19:46	John P Hook	1
07036	Selenium	SW-846 6010B	1	131741848001	06/27/2013 19:46	John P Hook	1
07066	Silver	SW-846 6010B	1	131741848001	06/27/2013 19:46	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131741848001	06/27/2013 19:46	John P Hook	1
00259	Mercury	SW-846 7470A	1	131745713001	06/24/2013 11:40	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131741848001	06/24/2013 10:04	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131745713001	06/24/2013 06:55	Damary Valentin	1

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

Sample Description: WS-001(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104172
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:00 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M1S21 SDG#: PEI40-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
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)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104172
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:00 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M1S21 SDG#: PEI40-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
	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 CaCO3	471-34-1	21.7	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	0.0162	0.00033	0.0050	1

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

Sample Description: WS-001(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104172
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:00 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M1S21 SDG#: PEI40-04

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	4.95	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	2.26	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	I131751AA	06/24/2013 13:29	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131751AA	06/24/2013 13:29	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13175WAF026	06/25/2013 14:32	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13175WAF026	06/24/2013 16:55	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 05:40	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131741848001	06/27/2013 18:24	John P Hook	1
07046	Barium	SW-846 6010B	1	131741848001	06/27/2013 18:24	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131741848001	06/27/2013 18:24	John P Hook	1
01750	Calcium	SW-846 6010B	1	131741848001	06/27/2013 18:24	John P Hook	1
07051	Chromium	SW-846 6010B	1	131741848001	06/27/2013 18:24	John P Hook	1
07055	Lead	SW-846 6010B	1	131741848001	06/28/2013 13:12	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131741848001	06/27/2013 18:24	John P Hook	1
07061	Nickel	SW-846 6010B	1	131741848001	06/27/2013 18:24	John P Hook	1
07036	Selenium	SW-846 6010B	1	131741848001	06/27/2013 18:24	John P Hook	1
07066	Silver	SW-846 6010B	1	131741848001	06/27/2013 18:24	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131741848001	06/27/2013 18:24	John P Hook	1
00259	Mercury	SW-846 7470A	1	131745713001	06/24/2013 11:46	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131741848001	06/24/2013 10:04	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131745713001	06/24/2013 06:55	Damary Valentin	1

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

Sample Description: WS-001(0.5-1.0)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104173
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:10 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M1521 SDG#: PEI40-05

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 purge**		ug/l	ug/l	ug/l	
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)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104173
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:10 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M1521 SDG#: PEI40-05

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
	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 CaCO3	471-34-1	22.9	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	0.0189	0.00033	0.0050	1

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

Sample Description: WS-001(0.5-1.0)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104173
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:10 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M1521 SDG#: PEI40-05

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	5.26	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	2.38	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	I131751AA	06/24/2013 13:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131751AA	06/24/2013 13:49	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13175WAF026	06/25/2013 15:02	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13175WAF026	06/24/2013 16:55	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 05:40	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131741848001	06/27/2013 18:28	John P Hook	1
07046	Barium	SW-846 6010B	1	131741848001	06/27/2013 18:28	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131741848001	06/27/2013 18:28	John P Hook	1
01750	Calcium	SW-846 6010B	1	131741848001	06/27/2013 18:28	John P Hook	1
07051	Chromium	SW-846 6010B	1	131741848001	06/27/2013 18:28	John P Hook	1
07055	Lead	SW-846 6010B	1	131741848001	06/28/2013 13:16	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131741848001	06/27/2013 18:28	John P Hook	1
07061	Nickel	SW-846 6010B	1	131741848001	06/27/2013 18:28	John P Hook	1
07036	Selenium	SW-846 6010B	1	131741848001	06/27/2013 18:28	John P Hook	1
07066	Silver	SW-846 6010B	1	131741848001	06/27/2013 18:28	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131741848001	06/27/2013 18:28	John P Hook	1
00259	Mercury	SW-846 7470A	1	131745713001	06/24/2013 11:48	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131741848001	06/24/2013 10:04	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131745713001	06/24/2013 06:55	Damary Valentin	1

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

Sample Description: WS-004(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104174
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:20 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M4S21 SDG#: PEI40-06

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 purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	5.2	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)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104174
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:20 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M4S21 SDG#: PEI40-06

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 purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	0.2	J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	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	0.012	J	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	0.018	J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.012	J	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.		0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.		0.031	0.052	1
08357	Pyrene	129-00-0	0.014	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	20.0		0.033	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0072	J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0864		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00076	0.0050	1
01750	Calcium	7440-70-2	4.64		0.0334	0.200	1

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

Sample Description: WS-004(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104174
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:20 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M4S21 SDG#: PEI40-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0027 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0048 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.05	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0041 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	0.0041 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	I131751AA	06/24/2013 14:10	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131751AA	06/24/2013 14:10	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13175WAF026	06/25/2013 15:32	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13175WAF026	06/24/2013 16:55	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 05:40	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131741848001	06/27/2013 18:39	John P Hook	1
07046	Barium	SW-846 6010B	1	131741848001	06/27/2013 18:39	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131741848001	06/27/2013 18:39	John P Hook	1
01750	Calcium	SW-846 6010B	1	131741848001	06/27/2013 18:39	John P Hook	1
07051	Chromium	SW-846 6010B	1	131741848001	06/27/2013 18:39	John P Hook	1
07055	Lead	SW-846 6010B	1	131741848001	06/28/2013 13:27	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131741848001	06/27/2013 18:39	John P Hook	1
07061	Nickel	SW-846 6010B	1	131741848001	06/27/2013 18:39	John P Hook	1
07036	Selenium	SW-846 6010B	1	131741848001	06/27/2013 18:39	John P Hook	1
07066	Silver	SW-846 6010B	1	131741848001	06/27/2013 18:39	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131741848001	06/27/2013 18:39	John P Hook	1
00259	Mercury	SW-846 7470A	1	131745713001	06/24/2013 11:50	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131741848001	06/24/2013 10:04	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131745713001	06/24/2013 06:55	Damary Valentin	1

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

Sample Description: WS-004(0.5-1.0)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104175
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:30 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M4521 SDG#: PEI40-07

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 purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	4.3	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)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104175
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:30 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M4521 SDG#: PEI40-07

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 purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	4.9		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.051	1
08357	Anthracene	120-12-7	N.D.		0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.033	J	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.042	J	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.094		0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.041	J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.031	J	0.010	0.051	1
08357	Chrysene	218-01-9	0.064		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	0.064		0.010	0.051	1
08357	Fluorene	86-73-7	0.015	J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.029	J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.035	J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.035	J	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.		0.031	0.051	1
08357	Phenanthrene	85-01-8	0.047	J	0.031	0.051	1
08357	Pyrene	129-00-0	0.062		0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	29.5		0.033	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0159	J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.150		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00076	0.0050	1
01750	Calcium	7440-70-2	6.37		0.0334	0.200	1

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

Sample Description: WS-004(0.5-1.0)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104175
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:30 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M4521 SDG#: PEI40-07

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	0.0237	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0938	0.0047	0.0150	1
01757	Magnesium	7439-95-4	3.30	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0172	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	0.0282	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000079 J	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	I131751AA	06/24/2013 14:31	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131751AA	06/24/2013 14:31	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13175WAF026	06/25/2013 16:01	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13175WAF026	06/24/2013 16:55	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 05:40	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131741848001	06/27/2013 18:43	John P Hook	1
07046	Barium	SW-846 6010B	1	131741848001	06/27/2013 18:43	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131741848001	06/27/2013 18:43	John P Hook	1
01750	Calcium	SW-846 6010B	1	131741848001	06/27/2013 18:43	John P Hook	1
07051	Chromium	SW-846 6010B	1	131741848001	06/27/2013 18:43	John P Hook	1
07055	Lead	SW-846 6010B	1	131741848001	06/28/2013 13:31	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131741848001	06/27/2013 18:43	John P Hook	1
07061	Nickel	SW-846 6010B	1	131741848001	06/27/2013 18:43	John P Hook	1
07036	Selenium	SW-846 6010B	1	131741848001	06/27/2013 18:43	John P Hook	1
07066	Silver	SW-846 6010B	1	131741848001	06/27/2013 18:43	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131741848001	06/27/2013 18:43	John P Hook	1
00259	Mercury	SW-846 7470A	1	131745713001	06/24/2013 11:52	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131741848001	06/24/2013 10:04	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131745713001	06/24/2013 06:55	Damary Valentin	1

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

Sample Description: WS-007(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104176
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:50 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M7S21 SDG#: PEI40-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	6.0	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: WS-007(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104176
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:50 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M7S21 SDG#: PEI40-08

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	0.3	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	0.022	J	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.014	J	0.010	0.051	1
08357	Anthracene	120-12-7	0.084		0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	0.12		0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	0.080		0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	0.25		0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.037	J	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	0.13		0.010	0.051	1
08357	Chrysene	218-01-9	0.43		0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.014	J	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.50		0.010	0.051	1
08357	Fluorene	86-73-7	0.025	J	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.029	J	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.032	J	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.029	J	0.010	0.051	1
08357	Naphthalene	91-20-3	0.046	J	0.031	0.051	1
08357	Phenanthrene	85-01-8	0.20		0.031	0.051	1
08357	Pyrene	129-00-0	0.39		0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	23.6		0.033	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0118	J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.115		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00076	0.0050	1
01750	Calcium	7440-70-2	5.37		0.0334	0.200	1

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

Sample Description: WS-007(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104176
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 09:50 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M7S21 SDG#: PEI40-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0041 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0058 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.46	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0042 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	0.0070	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	H131761AA	06/25/2013 12:19	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131761AA	06/25/2013 12:19	Kerri E Legerlotz	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13175WAF026	06/25/2013 16:31	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13175WAF026	06/24/2013 16:55	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 05:40	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131741848001	06/27/2013 18:47	John P Hook	1
07046	Barium	SW-846 6010B	1	131741848001	06/27/2013 18:47	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131741848001	06/27/2013 18:47	John P Hook	1
01750	Calcium	SW-846 6010B	1	131741848001	06/27/2013 18:47	John P Hook	1
07051	Chromium	SW-846 6010B	1	131741848001	06/27/2013 18:47	John P Hook	1
07055	Lead	SW-846 6010B	1	131741848001	06/28/2013 13:34	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131741848001	06/27/2013 18:47	John P Hook	1
07061	Nickel	SW-846 6010B	1	131741848001	06/27/2013 18:47	John P Hook	1
07036	Selenium	SW-846 6010B	1	131741848001	06/27/2013 18:47	John P Hook	1
07066	Silver	SW-846 6010B	1	131741848001	06/27/2013 18:47	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131741848001	06/27/2013 18:47	John P Hook	1
00259	Mercury	SW-846 7470A	1	131745713001	06/24/2013 11:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131741848001	06/24/2013 10:04	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131745713001	06/24/2013 06:55	Damary Valentin	1

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

Sample Description: WS-007(0.5-1.0)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104177
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 10:00 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M7521 SDG#: PEI40-09

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 purge**		ug/l		ug/l	ug/l	
02898	Acetone	67-64-1	5.4		3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.		0.1	0.5	1
02898	Benzene	71-43-2	N.D.		0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
02898	Bromoform	75-25-2	N.D.		0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.		0.1	0.5	1
02898	2-Butanone	78-93-3	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)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104177
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 10:00 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M7521 SDG#: PEI40-09

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	6.0	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	0.25	0.010	0.051	1
08357	Acenaphthylene	208-96-8	0.96	0.010	0.051	1
08357	Anthracene	120-12-7	1.6	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	3.9	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	3.4	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	14	0.051	0.26	5
08357	Benzo(g,h,i)perylene	191-24-2	1.5	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	4.6	0.010	0.051	1
08357	Chrysene	218-01-9	10	0.051	0.26	5
08357	Dibenz(a,h)anthracene	53-70-3	0.52	0.010	0.051	1
08357	Fluoranthene	206-44-0	19	0.051	0.26	5
08357	Fluorene	86-73-7	0.24	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	1.8	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	0.093	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	0.12	0.010	0.051	1
08357	Naphthalene	91-20-3	0.11	0.031	0.051	1
08357	Phenanthrene	85-01-8	3.7	0.031	0.051	1
08357	Pyrene	129-00-0	15	0.051	0.26	5
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	31.1	0.033	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0145 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.168	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.52	0.0334	0.200	1

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

Sample Description: WS-007(0.5-1.0)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104177
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 10:00 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M7521 SDG#: PEI40-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0195	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0405	0.0047	0.0150	1
01757	Magnesium	7439-95-4	4.20	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0138	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	0.0288	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000092 J	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	I131751AA	06/24/2013 15:13	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131751AA	06/24/2013 15:13	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13175WAF026	06/25/2013 17:00	Joseph M Gambler	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13175WAF026	06/26/2013 11:34	Joseph M Gambler	5
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13175WAF026	06/24/2013 16:55	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 05:40	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131741848001	06/27/2013 18:50	John P Hook	1
07046	Barium	SW-846 6010B	1	131741848001	06/27/2013 18:50	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131741848001	06/27/2013 18:50	John P Hook	1
01750	Calcium	SW-846 6010B	1	131741848001	06/27/2013 18:50	John P Hook	1
07051	Chromium	SW-846 6010B	1	131741848001	06/27/2013 18:50	John P Hook	1
07055	Lead	SW-846 6010B	1	131741848001	06/28/2013 13:38	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131741848001	06/27/2013 18:50	John P Hook	1
07061	Nickel	SW-846 6010B	1	131741848001	06/27/2013 18:50	John P Hook	1
07036	Selenium	SW-846 6010B	1	131741848001	06/27/2013 18:50	John P Hook	1
07066	Silver	SW-846 6010B	1	131741848001	06/27/2013 18:50	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131741848001	06/27/2013 18:50	John P Hook	1
00259	Mercury	SW-846 7470A	1	131745713001	06/24/2013 11:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131741848001	06/24/2013 10:04	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131745713001	06/24/2013 06:55	Damary Valentin	1

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

Sample Description: WS-006(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104178
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 10:10 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M6S21 SDG#: PEI40-10

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104178
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 10:10 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M6S21 SDG#: PEI40-10

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
	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 CaCO3	471-34-1	21.7	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	0.0152	0.00033	0.0050	1

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

Sample Description: WS-006(Surface)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104178
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 10:10 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M6S21 SDG#: PEI40-10

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	4.93	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	2.27	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	I131751AA	06/24/2013 15:34	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131751AA	06/24/2013 15:34	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13175WAF026	06/25/2013 17:30	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13175WAF026	06/24/2013 16:55	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 05:40	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131741848001	06/27/2013 18:54	John P Hook	1
07046	Barium	SW-846 6010B	1	131741848001	06/27/2013 18:54	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131741848001	06/27/2013 18:54	John P Hook	1
01750	Calcium	SW-846 6010B	1	131741848001	06/27/2013 18:54	John P Hook	1
07051	Chromium	SW-846 6010B	1	131741848001	06/27/2013 18:54	John P Hook	1
07055	Lead	SW-846 6010B	1	131741848001	06/28/2013 13:42	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131741848001	06/27/2013 18:54	John P Hook	1
07061	Nickel	SW-846 6010B	1	131741848001	06/27/2013 18:54	John P Hook	1
07036	Selenium	SW-846 6010B	1	131741848001	06/27/2013 18:54	John P Hook	1
07066	Silver	SW-846 6010B	1	131741848001	06/27/2013 18:54	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131741848001	06/27/2013 18:54	John P Hook	1
00259	Mercury	SW-846 7470A	1	131745713001	06/24/2013 11:58	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131741848001	06/24/2013 10:04	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131745713001	06/24/2013 06:55	Damary Valentin	1

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

Sample Description: WS-006(0.5-1.0)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104179
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 10:20 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M6521 SDG#: PEI40-11

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 purge**		**ug/l**	**ug/l**	**ug/l**	
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)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104179
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 10:20 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M6521 SDG#: PEI40-11

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 purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.	2.0	5.0	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.051	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.051	1
08357	Anthracene	120-12-7	N.D.	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.051	1
08357	Chrysene	218-01-9	N.D.	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.051	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
	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 CaCO3	471-34-1	23.2	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	0.0255	0.00033	0.0050	1

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

Sample Description: WS-006(0.5-1.0)062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104179
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 10:20 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

M6521 SDG#: PEI40-11

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	5.20	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0020 J	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.48	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0024 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	0.0027 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	I131751AA	06/24/2013 15:55	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131751AA	06/24/2013 15:55	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13175WAF026	06/25/2013 18:00	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13175WAF026	06/24/2013 16:55	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 05:40	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131741848001	06/27/2013 18:58	John P Hook	1
07046	Barium	SW-846 6010B	1	131741848001	06/27/2013 18:58	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131741848001	06/27/2013 18:58	John P Hook	1
01750	Calcium	SW-846 6010B	1	131741848001	06/27/2013 18:58	John P Hook	1
07051	Chromium	SW-846 6010B	1	131741848001	06/27/2013 18:58	John P Hook	1
07055	Lead	SW-846 6010B	1	131741848001	06/28/2013 13:46	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131741848001	06/27/2013 18:58	John P Hook	1
07061	Nickel	SW-846 6010B	1	131741848001	06/27/2013 18:58	John P Hook	1
07036	Selenium	SW-846 6010B	1	131741848001	06/27/2013 18:58	John P Hook	1
07066	Silver	SW-846 6010B	1	131741848001	06/27/2013 18:58	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131741848001	06/27/2013 18:58	John P Hook	1
00259	Mercury	SW-846 7470A	1	131745713001	06/24/2013 12:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131741848001	06/24/2013 10:04	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131745713001	06/24/2013 06:55	Damary Valentin	1

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

Sample Description: DUP-WS-44-062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104180
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

MDP44 SDG#: PEI40-12FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	7.2	3.0	5.0	1
02898	Allyl Chloride	107-05-1	N.D.	0.1	0.5	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	N.D.	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	N.D.	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	N.D.	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	N.D.	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethyl ether	60-29-7	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	Freon 113	76-13-1	N.D.	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	N.D.	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1

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

Sample Description: DUP-WS-44-062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104180
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

MDP44 SDG#: PEI40-12FD

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**		**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
02898	Styrene	100-42-5	N.D.		0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	N.D.		2.0	5.0	1
02898	Toluene	108-88-3	0.3	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	0.022	J	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.052	1
08357	Anthracene	120-12-7	0.034	J	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.041	J	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.031	J	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.13		0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.019	J	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.054		0.010	0.052	1
08357	Chrysene	218-01-9	0.13		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	0.27		0.010	0.052	1
08357	Fluorene	86-73-7	0.041	J	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.014	J	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.031	J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.032	J	0.010	0.052	1
08357	Naphthalene	91-20-3	0.044	J	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.14		0.031	0.052	1
08357	Pyrene	129-00-0	0.23		0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	23.2		0.033	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0125	J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.101		0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.		0.00076	0.0050	1
01750	Calcium	7440-70-2	5.25		0.0334	0.200	1

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

Sample Description: DUP-WS-44-062113 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104180
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013 by TM

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

MDP44 SDG#: PEI40-12FD

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	0.0044 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0079 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.45	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0040 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	0.0070	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	I131751AA	06/24/2013 16:16	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131751AA	06/24/2013 16:16	Jason M Long	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13175WAF026	06/26/2013 11:04	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13175WAF026	06/24/2013 16:55	JoElla L Rice	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131796256001	06/28/2013 05:40	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131741848001	06/27/2013 19:01	John P Hook	1
07046	Barium	SW-846 6010B	1	131741848001	06/27/2013 19:01	John P Hook	1
07049	Cadmium	SW-846 6010B	1	131741848001	06/27/2013 19:01	John P Hook	1
01750	Calcium	SW-846 6010B	1	131741848001	06/27/2013 19:01	John P Hook	1
07051	Chromium	SW-846 6010B	1	131741848001	06/27/2013 19:01	John P Hook	1
07055	Lead	SW-846 6010B	1	131741848001	06/28/2013 13:49	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	131741848001	06/27/2013 19:01	John P Hook	1
07061	Nickel	SW-846 6010B	1	131741848001	06/27/2013 19:01	John P Hook	1
07036	Selenium	SW-846 6010B	1	131741848001	06/27/2013 19:01	John P Hook	1
07066	Silver	SW-846 6010B	1	131741848001	06/27/2013 19:01	John P Hook	1
07071	Vanadium	SW-846 6010B	1	131741848001	06/27/2013 19:01	John P Hook	1
00259	Mercury	SW-846 7470A	1	131745713001	06/24/2013 12:02	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131741848001	06/24/2013 10:04	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131745713001	06/24/2013 06:55	Damary Valentin	1

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

Sample Description: WS-TB-79-062113 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104181
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

MTB79 SDG#: PEI40-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
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-79-062113 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7104181
LL Group # 1399118
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 06/21/2013

Submitted: 06/22/2013 09:15
Reported: 07/02/2013 16:29

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

MTB79 SDG#: PEI40-13TB*

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

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	I131751AA	06/24/2013 12:05	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I131751AA	06/24/2013 12:05	Jason M Long	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1399118
Reported: 07/02/13 at 04:29 PM

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

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: H131761AA	Sample number(s): 7104176								
Acetone	N.D.	3.0	5.0	ug/l	96		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	88		61-130		
Benzene	N.D.	0.1	0.5	ug/l	98		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	104		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	95		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	95		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	98		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	95		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	102		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	99		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	97		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	100		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	98		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	99		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	100		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	94		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	97		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	99		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	93		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	102		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	100		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	100		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	108		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	99		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	97		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	103		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	99		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	106		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	108		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	100		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	96		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	97		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	102		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	95		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	95		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	85		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	97		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	100		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	91		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: 1399118
Reported: 07/02/13 at 04:29 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropylbenzene	N.D.	0.1	0.5	ug/l	99		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	98		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	99		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	98		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	101		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Styrene	N.D.	0.1	0.5	ug/l	101		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	100		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	102		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	98		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	97		65-131		
Toluene	N.D.	0.1	0.5	ug/l	98		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	92		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	94		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	99		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	97		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	99		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	102		80-120		
1,2,4-Trimethylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	100		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	99		80-120		
Batch number: I131751AA	Sample number(s): 7104169-7104175,7104177-7104181								
Acetone	N.D.	3.0	5.0	ug/l	105		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	80		61-130		
Benzene	N.D.	0.1	0.5	ug/l	96		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	91		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	97		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	92		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	92		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	83		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	113		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	97		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	97		80-120		
tert-Butylbenzene	N.D.	0.1	0.5	ug/l	95		80-120		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	99		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	98		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	84		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	98		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	70		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	95		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	96		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	117		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	93		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	96		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	92		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	99		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	97		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	98		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	46		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	94		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	94		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	98		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	96		80-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil Group Number: 1399118
Reported: 07/02/13 at 04:29 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	100		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	107		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	96		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	92		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	92		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	101		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	95		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	93		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	76		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	96		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	95		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	93		61-125		
Isopropylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	95		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	90		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	87		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	93		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	96		80-120		
Styrene	N.D.	0.1	0.5	ug/l	97		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	96		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	92		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	99		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	118		65-131		
Toluene	N.D.	0.1	0.5	ug/l	96		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	93		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	94		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	95		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	96		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	100		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	83		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	95		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	97		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	78		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	97		80-120		
Batch number: 13175WAF026	Sample number(s): 7104169-7104180								
Acenaphthene	N.D.	0.010	0.050	ug/l	95	94	65-124	1	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	108	106	72-113	2	30
Anthracene	N.D.	0.010	0.050	ug/l	102	100	70-117	2	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	100	96	75-115	4	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	97	96	72-120	1	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	105	108	74-130	3	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	96	97	63-121	0	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	105	107	74-118	1	30
Chrysene	N.D.	0.010	0.050	ug/l	102	101	75-112	1	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	99	101	66-122	2	30
Fluoranthene	N.D.	0.010	0.050	ug/l	99	97	73-116	2	30
Fluorene	N.D.	0.010	0.050	ug/l	98	97	74-115	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	94	95	66-122	1	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	106	104	72-114	2	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	104	101	74-119	2	30
Naphthalene	N.D.	0.030	0.050	ug/l	100	98	67-118	2	30
Phenanthrene	N.D.	0.030	0.050	ug/l	96	94	72-109	2	30
Pyrene	N.D.	0.010	0.050	ug/l	107	105	71-116	2	30

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1399118
Reported: 07/02/13 at 04:29 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 131741848001	Sample number(s): 7104169-7104180								
Arsenic	N.D.	0.0068	0.0200	mg/l	99		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	100		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	99		90-112		
Calcium	0.0505 J	0.0334	0.200	mg/l	101		90-110		
Chromium	N.D.	0.0016	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	99		88-110		
Magnesium	N.D.	0.0167	0.100	mg/l	98		90-110		
Nickel	N.D.	0.0015	0.0100	mg/l	102		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	97		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	108		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	104		90-110		
Batch number: 131745713001	Sample number(s): 7104169-7104180								
Mercury	N.D.	0.00006 0	0.00020	mg/l	99		80-120		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: H131761AA	Sample number(s): 7104176 UNSPK: P105220								
Acetone	79	91	57-163	12	30				
Allyl Chloride	89	84	67-139	6	30				
Benzene	100	101	87-126	1	30				
Bromobenzene	102	107	80-123	5	30				
Bromochloromethane	103	95	82-125	9	30				
Bromodichloromethane	99	103	82-133	3	30				
Bromoform	99	105	60-138	5	30				
Bromomethane	100	97	41-145	2	30				
2-Butanone	100	104	63-146	4	30				
n-Butylbenzene	104	109	83-131	4	30				
sec-Butylbenzene	105	110	84-128	4	30				
tert-Butylbenzene	106	110	84-135	4	30				
Carbon Tetrachloride	107	107	81-148	0	30				
Chlorobenzene	105	109	78-133	4	30				
Chloroethane	100	98	70-139	2	30				
Chloroform	103	105	86-136	2	30				
Chloromethane	101	99	55-152	2	30				
2-Chlorotoluene	104	109	81-120	5	30				
4-Chlorotoluene	105	110	82-119	5	30				
1,2-Dibromo-3-chloropropane	98	102	43-143	4	30				
Dibromochloromethane	101	108	79-125	7	30				
1,2-Dibromoethane	103	107	84-127	4	30				
Dibromomethane	97	99	83-126	2	30				
1,2-Dichlorobenzene	105	110	83-117	4	30				
1,3-Dichlorobenzene	105	110	81-118	5	30				
1,4-Dichlorobenzene	104	109	79-120	5	30				
Dichlorodifluoromethane	114	112	28-136	2	30				
1,1-Dichloroethane	102	101	88-136	0	30				

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(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: 1399118
Reported: 07/02/13 at 04:29 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichloroethane	100	102	82-135	2	30				
1,1-Dichloroethene	111	108	83-150	3	30				
cis-1,2-Dichloroethene	102	102	82-129	0	30				
trans-1,2-Dichloroethene	110	107	88-127	2	30				
Dichlorofluoromethane	110	109	59-176	1	30				
1,2-Dichloropropane	103	106	91-126	3	30				
1,3-Dichloropropane	100	105	80-127	6	30				
2,2-Dichloropropane	100	102	80-134	1	30				
1,1-Dichloropropene	108	107	86-139	1	30				
cis-1,3-Dichloropropene	97	102	74-132	5	30				
trans-1,3-Dichloropropene	98	103	71-128	6	30				
Ethyl ether	82	75	67-127	10	30				
Ethylbenzene	104	108	80-140	4	30				
Freon 113	107	106	87-158	1	30				
Hexachlorobutadiene	97	103	65-128	6	30				
Isopropylbenzene	106	112	81-133	5	30				
p-Isopropyltoluene	104	109	84-124	5	30				
Methyl Tertiary Butyl Ether	98	97	82-132	1	30				
4-Methyl-2-Pentanone	102	107	69-149	5	30				
Methylene Chloride	101	100	84-122	1	30				
n-Propylbenzene	105	110	79-131	4	30				
Styrene	106	111	63-151	4	30				
1,1,1,2-Tetrachloroethane	107	111	87-126	4	30				
1,1,2,2-Tetrachloroethane	101	110	75-131	8	30				
Tetrachloroethene	107	107	75-129	0	30				
Tetrahydrofuran	97	98	56-154	0	30				
Toluene	104	107	83-127	3	30				
1,2,3-Trichlorobenzene	95	100	73-125	4	30				
1,2,4-Trichlorobenzene	98	104	77-120	6	30				
1,1,1-Trichloroethane	105	104	85-140	1	30				
1,1,2-Trichloroethane	103	110	85-129	7	30				
Trichloroethene	104	106	85-131	2	30				
Trichlorofluoromethane	103	102	67-161	1	30				
1,2,3-Trichloropropane	105	110	76-120	4	30				
1,2,4-Trimethylbenzene	104	110	87-126	5	30				
1,3,5-Trimethylbenzene	105	111	89-129	5	30				
Vinyl Chloride	104	102	65-151	2	30				
Xylene (Total)	105	110	81-137	5	30				
Batch number: I131751AA	Sample number(s): 7104169-7104175,7104177-7104181 UNSPK: 7104169								
Acetone	94	91	57-163	3	30				
Allyl Chloride	81	82	67-139	1	30				
Benzene	103	101	87-126	3	30				
Bromobenzene	93	89	80-123	5	30				
Bromochloromethane	99	99	82-125	0	30				
Bromodichloromethane	93	92	82-133	1	30				
Bromoform	82	80	60-138	3	30				
Bromomethane	85	84	41-145	1	30				
2-Butanone	95	100	63-146	5	30				
n-Butylbenzene	102	95	83-131	7	30				
sec-Butylbenzene	103	96	84-128	7	30				
tert-Butylbenzene	99	93	84-135	7	30				

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Quality Control Summary

Client Name: ExxonMobil Group Number: 1399118
Reported: 07/02/13 at 04:29 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Carbon Tetrachloride	104	99	81-148	5	30				
Chlorobenzene	103	98	78-133	4	30				
Chloroethane	87	87	70-139	0	30				
Chloroform	104	102	86-136	2	30				
Chloromethane	71	72	55-152	1	30				
2-Chlorotoluene	100	94	81-120	6	30				
4-Chlorotoluene	100	94	82-119	6	30				
1,2-Dibromo-3-chloropropane	93	96	43-143	3	30				
Dibromochloromethane	89	87	79-125	3	30				
1,2-Dibromoethane	97	95	84-127	2	30				
Dibromomethane	95	91	83-126	3	30				
1,2-Dichlorobenzene	102	97	83-117	5	30				
1,3-Dichlorobenzene	100	95	81-118	6	30				
1,4-Dichlorobenzene	100	95	79-120	5	30				
Dichlorodifluoromethane	45	38	28-136	18	30				
1,1-Dichloroethane	99	97	88-136	2	30				
1,2-Dichloroethane	98	96	82-135	2	30				
1,1-Dichloroethene	111	106	83-150	5	30				
cis-1,2-Dichloroethene	102	100	82-129	2	30				
trans-1,2-Dichloroethene	109	106	88-127	3	30				
Dichlorofluoromethane	114	113	59-176	1	30				
1,2-Dichloropropane	102	99	91-126	3	30				
1,3-Dichloropropane	94	93	80-127	1	30				
2,2-Dichloropropane	97	94	80-134	3	30				
1,1-Dichloropropene	111	105	86-139	6	30				
cis-1,3-Dichloropropene	93	92	74-132	1	30				
trans-1,3-Dichloropropene	88	86	71-128	2	30				
Ethyl ether	76	76	67-127	1	30				
Ethylbenzene	102	97	80-140	5	30				
Freon 113	106	92	87-158	14	30				
Hexachlorobutadiene	94	90	65-128	5	30				
Isopropylbenzene	105	98	81-133	7	30				
p-Isopropyltoluene	101	94	84-124	7	30				
Methyl Tertiary Butyl Ether	94	92	82-132	2	30				
4-Methyl-2-Pentanone	90	86	69-149	5	30				
Methylene Chloride	98	97	84-122	1	30				
n-Propylbenzene	102	95	79-131	7	30				
Styrene	101	96	63-151	5	30				
1,1,1,2-Tetrachloroethane	98	95	87-126	2	30				
1,1,2,2-Tetrachloroethane	92	90	75-131	2	30				
Tetrachloroethene	106	100	75-129	6	30				
Tetrahydrofuran	96	99	56-154	3	30				
Toluene	104	100	83-127	4	30				
1,2,3-Trichlorobenzene	93	88	73-125	5	30				
1,2,4-Trichlorobenzene	94	90	77-120	5	30				
1,1,1-Trichloroethane	102	99	85-140	3	30				
1,1,2-Trichloroethane	98	96	85-129	3	30				
Trichloroethene	110	104	85-131	5	30				
Trichlorofluoromethane	90	89	67-161	2	30				
1,2,3-Trichloropropane	95	91	76-120	5	30				
1,2,4-Trimethylbenzene	100	94	87-126	6	30				
1,3,5-Trimethylbenzene	101	95	89-129	6	30				

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Quality Control Summary

Client Name: ExxonMobil Group Number: 1399118
Reported: 07/02/13 at 04:29 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Vinyl Chloride	83	80	65-151	4	30				
Xylene (Total)	103	97	81-137	5	30				
Batch number: 131741848001	Sample number(s): 7104169-7104180 UNSPK: P104185 BKG: P104185								
Arsenic	100	103	81-123	3	20	N.D.	N.D.	0 (1)	20
Barium	100	103	78-118	3	20	0.0164	0.0165	0 (1)	20
Cadmium	98	101	83-116	3	20	N.D.	N.D.	0 (1)	20
Calcium	99	105	81-118	3	20	4.92	4.99	1	20
Chromium	102	105	81-120	3	20	N.D.	N.D.	0 (1)	20
Lead	98	102	75-125	3	20	N.D.	N.D.	0 (1)	20
Magnesium	96	102	75-125	3	20	2.19	2.23	1	20
Nickel	102	105	86-115	4	20	N.D.	N.D.	0 (1)	20
Selenium	96	99	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	107	111	75-125	4	20	N.D.	N.D.	0 (1)	20
Vanadium	105	108	90-111	3	20	N.D.	N.D.	0 (1)	20
Batch number: 131745713001	Sample number(s): 7104169-7104180 UNSPK: P104191 BKG: P104191								
Mercury	102	102	80-120	1	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

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

Analysis Name: BTEX 25-ml purge
Batch number: H131761AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7104176	104	103	101	100
Blank	105	104	100	98
LCS	102	100	102	102
MS	104	99	103	102
MSD	101	102	102	102
Limits:	77-114	74-113	77-110	78-110

Analysis Name: BTEX 25-ml purge
Batch number: I131751AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7104169	99	106	97	97
7104170	100	103	97	96
7104171	98	100	97	95
7104172	98	100	97	95
7104173	98	101	98	95
7104174	98	102	99	95
7104175	98	102	97	95
7104177	97	100	98	94
7104178	99	106	97	95

*- 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: 1399118
Reported: 07/02/13 at 04:29 PM

Surrogate Quality Control

7104179	98	103	97	95
7104180	96	99	97	94
7104181	100	103	97	97
Blank	99	101	98	96
LCS	99	98	99	99
MS	98	100	98	99
MSD	99	103	99	101
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13175WAF026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7104169	92	50*	97
7104170	98	47*	96
7104171	65	15*	82
7104172	83	39*	93
7104173	79	33*	89
7104174	68	75	92
7104175	83	63	88
7104176	80	90	99
7104177	83	92	102
7104178	97	55*	88
7104179	84	53*	93
7104180	93	92	97
Blank	88	95	82
LCS	93	99	102
LCSD	91	98	101
Limits:	64-120	62-141	58-134

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

ExxonMobil Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # 14739 Group # 1399118 Sample # 7104169-81
Instructions on reverse side correspond with circled numbers.

pg. 1 of 2

1 Client Information

Facility #/SID: MayFlower Pipeline Incident
Site Address: MayFlower, AR
ExxonMobil PM: Scott Bushroe
Cost Center/AFE:
Consultant/Office: ARCADIS-US
Consultant PM: Steve Barrick
Consultant Phone #: 919-302-6799
Sampler: Tyler Milburn / Hans Van Aller

4 Matrix

Sediment ☐ Soil ☐
Ground ☐ Potable ☐ NPDES ☐ Surface ☑ Water ☑
Air ☐ Oil ☐

5 Analyses Requested

Preservation Code: H | N

SCR#:

Preservation Codes

H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

6 Remarks

Data Analysis Questions!
ARCADIS/Lynn Mott

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	Total # of Containers	VOCs 8260B (H)	PAH 8270 SIM (H)	RCRA metals +Ni, V, Co, Mg hardness (N)
WS-003 (surface) 062113	6/21/13	0800	✓		6	✓	✓	✓
WS-002 (surface) 062113		0820	✓		6	✓	✓	✓
WS-005 (surface) 062113		0840	✓		6	✓	✓	✓
WS-001 (surface) 062113		0900	✓		6	✓	✓	✓
WS-001 (0.5-1.0) 062113		0910	✓		6	✓	✓	✓
WS-004 (surface) 062113		0920	✓		6	✓	✓	✓
WS-004 (0.5-1.0) 062113		0930	✓		6	✓	✓	✓
WS-007 (surface) 062113		0950	✓		6	✓	✓	✓
WS-007 (0.5-1.0) 062113		1000	✓		6	✓	✓	✓
WS-006 (surface) 062113		1010	✓		6	✓	✓	✓
WS-006 (0.5-1.0) 062113		1020	✓		6	✓	✓	✓
Dup-WS-44-062113		—	✓		6	✓	✓	✓

7 Turnaround Time Requested (TAT) (please circle)

Standard (5 day) 4 day
72 hour 48 hour 24 hour

8 Data Package (circle if required)

Type I - Full
Type VI (Raw Data)
NJ Reduced
Other

EDD (circle if required)

Locus EIM (default)
Other

Relinquished by	Date	Time	Received by	Date	Time
Tyler Milburn	6/21/13	1300			
Relinquished by Commercial Carrier: UPS ___ FedEx ✓ Other ___			Received by	Date 6/22/13	Time 915

Temperature Upon Receipt 0.5-1.0 °C

Custody Seals Intact? (Yes) No

9

ExxonMobil Analysis Request/Chain of Custody

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Acct. # 14739 For Eurofins Lancaster Laboratories use only Group # 1399118 Sample # 7104169-81

Instructions on reverse side correspond with circled numbers.

pg. 2 of 2

1 Client Information

Facility #/SID: Mayflower Pipeline Incident

Site Address: Mayflower, AR

ExxonMobil PM: Scott Bushroe | Cost Center/AFE:

Consultant/Office: ARCADIS-US

Consultant PM: Steve Barrick | Consultant Phone #: 919-302-6799

Sampler: Tyler Milburn / Hans Van Aller

SCR#:

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Sediment	Potable Water	Ground Water	NPDES	Surface Water	Air	Oil	Total # of Containers	5 Analyses Requested / Preservation Code: VOCs 8260B
WS-TB-79-062113	6/21/13	—	✓					✓					2	✓

Preservation Codes

H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

6 Remarks

Data Analysis Questions: Lynd. Mott/ ARCADIS

7 Turnaround Time Requested (TAT) (please circle)

Standard (5 day) 4 day
72 hour 48 hour 24 hour

8 Data Package (circle if required)

Type I - Full
Type VI (Raw Data)
NJ Reduced
Other

EDD (circle if required)

Locus EIM (default)
Other

Relinquished by	Date	Time	Received by	Date	Time
Tyler Milburn	6/21/13	1300			
Relinquished by Commercial Carrier: UPS ___ FedEx ✓ Other ___			Received by	Date 6-22-13	Time 915

Temperature Upon Receipt 0.5-1.7 °C

Custody Seals Intact? (Yes) No

9

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Grp # 1399118

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Exxon mobil

Date of Receipt: 6.22.13

Time of Receipt: 915

Source Code: 50-1

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

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

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	D+121	1.7	TB	WI	Y	B	
2	↓	0.5	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Brandy Barclay 2299 **Date/Time:** 6.22.13 949

Issued by Dept. 6042 Management

2174.06

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Explanation of Symbols and Abbreviations

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

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

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

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ 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 ≥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.