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 18, 2013

Project: Mayflower, AR Pipeline Incident

Submittal Date: 07/09/2013
Group Number: 1402482
SDG: PEI88
PO Number: 4510076246
Release Number: MAYFLOWER 1406
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LL) #
WS-003(Surface)070813 Grab Surface Water	7120272
WS-002(Surface)070813 Grab Surface Water	7120273
WS-005(Surface)070813 Grab Surface Water	7120274
WS-001(Surface)070813 Grab Surface Water	7120275
WS-001(0.5-1.0)070813 Grab Surface Water	7120276
WS-004(Surface)070813 Grab Surface Water	7120277
WS-004(0.5-1.0)070813 Grab Surface Water	7120278
WS-007(Surface)070813 Grab Surface Water	7120279
WS-007(Surface)070813MS Grab Surface Water	7120280
WS-007(Surface)070813MSD Grab Surface Water	7120281
WS-007(Surface)070813DUP Grab Surface Water	7120282
WS-007(0.5-1.0)070813 Grab Surface Water	7120283
WS-006(Surface)070813 Grab Surface Water	7120284
WS-006(0.5-1.0)070813 Grab Surface Water	7120285
WS-TB-91-070813 Water	7120286

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 #: 1402482

General Comments:

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

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

Project specific QC samples are included in this data set

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

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

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

Analysis Specific Comments:

SW-846 8270C SIM, GC/MS Semivolatiles

Batch #: 13191WAD026 (Sample number(s): 7120272-7120281, 7120284-7120285 UNSPK: 7120279)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7120278, 7120284

Batch #: 13191WAZ026 (Sample number(s): 7120283 UNSPK: 91WZUS)

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

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7120283

Sample #s: 7120279

The GC/MS semivolatile internal standard peak areas listed below are outside the acceptance criteria of -50% to +100%. The recovery for the internal standard(s) is again low but within the QC acceptance limits in the associated matrix spike(s), indicating a matrix effect. The reported results are from the initial analysis of the sample.

Internal Standard - Initial Analysis	% Recovery
Perylene-d12	-57%
Internal Standard - Matrix Spike	% Recovery
Perylene-d12	-32%
Internal Standard - Matrix Spike Dup	% Recovery
Perylene-d12	-50%

Sample #s: 7120283

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

SW-846 6010B, Metals

Batch #: 131901848004 (Sample number(s): 7120272-7120285 UNSPK: 7120279 BKG: 7120279)

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

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

Sample Description: WS-003(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120272
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 09:15 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08003 SDG#: PEI88-01

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)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120272
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 09:15 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08003 SDG#: PEI88-01

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.	0.011	0.057	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.057	1
08357	Anthracene	120-12-7	N.D.	0.011	0.057	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.057	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.057	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.057	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.057	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.057	1
08357	Chrysene	218-01-9	N.D.	0.011	0.057	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.057	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.057	1
08357	Fluorene	86-73-7	N.D.	0.011	0.057	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.057	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.057	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.057	1
08357	Naphthalene	91-20-3	N.D.	0.034	0.057	1
08357	Phenanthrene	85-01-8	N.D.	0.034	0.057	1
08357	Pyrene	129-00-0	N.D.	0.011	0.057	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	24.7	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	0.0190	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.56	0.0334	0.200	1

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

Sample Description: WS-003(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120272
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 09:15 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08003 SDG#: PEI88-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.63	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0017 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	C131902AA	07/09/2013 23:48	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131902AA	07/09/2013 23:48	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13191WAD026	07/17/2013 06:15	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13191WAD026	07/10/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256001	07/11/2013 05:56	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131901848004	07/10/2013 19:06	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131901848004	07/10/2013 19:06	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131901848004	07/10/2013 19:06	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131901848004	07/10/2013 19:06	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131901848004	07/10/2013 19:06	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131901848004	07/10/2013 19:06	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131901848004	07/10/2013 19:06	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131901848004	07/10/2013 19:06	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131901848004	07/10/2013 19:06	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131901848004	07/10/2013 19:06	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131901848004	07/10/2013 19:06	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131905713001	07/10/2013 05:37	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131901848004	07/10/2013 10:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131905713001	07/09/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-002(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120273
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 09:45 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08002 SDG#: PEI88-02

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)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120273
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 09:45 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08002 SDG#: PEI88-02

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	25.4	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	0.0299	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.82	0.0334	0.200	1

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

Sample Description: WS-002(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120273
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 09:45 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08002 SDG#: PEI88-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.64	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0016 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	C131902AA	07/10/2013 00:10	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131902AA	07/10/2013 00:10	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13191WAD026	07/17/2013 06:43	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13191WAD026	07/10/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256001	07/11/2013 05:56	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131901848004	07/10/2013 19:10	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131901848004	07/10/2013 19:10	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131901848004	07/10/2013 19:10	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131901848004	07/10/2013 19:10	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131901848004	07/10/2013 19:10	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131901848004	07/10/2013 19:10	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131901848004	07/10/2013 19:10	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131901848004	07/10/2013 19:10	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131901848004	07/10/2013 19:10	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131901848004	07/10/2013 19:10	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131901848004	07/10/2013 19:10	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131905713001	07/10/2013 05:39	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131901848004	07/10/2013 10:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131905713001	07/09/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-005(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120274
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 10:45 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08005 SDG#: PEI88-03

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)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120274
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 10:45 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08005 SDG#: PEI88-03

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.	0.011	0.053	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.053	1
08357	Chrysene	218-01-9	N.D.	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.053	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.053	1
08357	Fluorene	86-73-7	N.D.	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.053	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.053	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	25.2	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	0.0270	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.84	0.0334	0.200	1

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

Sample Description: WS-005(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120274
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 10:45 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08005 SDG#: PEI88-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.57	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0015 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	C131902AA	07/10/2013 00:32	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131902AA	07/10/2013 00:32	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13191WAD026	07/17/2013 07:10	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13191WAD026	07/10/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256001	07/11/2013 05:56	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131901848004	07/10/2013 19:14	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131901848004	07/10/2013 19:14	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131901848004	07/10/2013 19:14	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131901848004	07/10/2013 19:14	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131901848004	07/10/2013 19:14	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131901848004	07/10/2013 19:14	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131901848004	07/10/2013 19:14	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131901848004	07/10/2013 19:14	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131901848004	07/10/2013 19:14	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131901848004	07/10/2013 19:14	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131901848004	07/10/2013 19:14	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131905713001	07/10/2013 05:41	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131901848004	07/10/2013 10:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131905713001	07/09/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-001(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120275
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:00 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08011 SDG#: PEI88-04

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

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

Sample Description: WS-001(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120275
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:00 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08011 SDG#: PEI88-04

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	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	N.D.	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	N.D.	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	25.6	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	0.0430	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.65	0.0334	0.200	1

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

Sample Description: WS-001(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120275
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:00 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08011 SDG#: PEI88-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0036 J	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.79	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0046 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	C131902AA	07/10/2013 00:54	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131902AA	07/10/2013 00:54	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13191WAD026	07/17/2013 07:37	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13191WAD026	07/10/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256001	07/11/2013 05:56	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131901848004	07/10/2013 19:17	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131901848004	07/10/2013 19:17	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131901848004	07/10/2013 19:17	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131901848004	07/10/2013 19:17	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131901848004	07/10/2013 19:17	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131901848004	07/10/2013 19:17	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131901848004	07/10/2013 19:17	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131901848004	07/10/2013 19:17	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131901848004	07/10/2013 19:17	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131901848004	07/10/2013 19:17	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131901848004	07/10/2013 19:17	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131905713001	07/10/2013 05:43	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131901848004	07/10/2013 10:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131905713001	07/09/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-001(0.5-1.0)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120276
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:10 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08012 SDG#: PEI88-05

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

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

Sample Description: WS-001(0.5-1.0)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120276
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:10 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08012 SDG#: PEI88-05

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.	0.030	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	23.6	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	0.0232	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.32	0.0334	0.200	1

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

Sample Description: WS-001(0.5-1.0)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120276
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:10 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08012 SDG#: PEI88-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	N.D.	0.0016	0.0150	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.51	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	C131902AA	07/10/2013 01:16	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131902AA	07/10/2013 01:16	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13191WAD026	07/17/2013 08:05	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13191WAD026	07/10/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256001	07/11/2013 05:56	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131901848004	07/10/2013 19:21	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131901848004	07/10/2013 19:21	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131901848004	07/10/2013 19:21	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131901848004	07/10/2013 19:21	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131901848004	07/10/2013 19:21	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131901848004	07/10/2013 19:21	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131901848004	07/10/2013 19:21	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131901848004	07/10/2013 19:21	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131901848004	07/10/2013 19:21	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131901848004	07/10/2013 19:21	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131901848004	07/10/2013 19:21	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131905713001	07/10/2013 05:45	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131901848004	07/10/2013 10:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131905713001	07/09/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-004(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120277
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:20 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08041 SDG#: PEI88-06

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	6.7		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	1.2	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-004(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120277
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:20 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08041 SDG#: PEI88-06

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	22		0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.		0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.		0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.		0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.		0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.		0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.		0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.		0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.		0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.		0.010	0.052	1
08357	Anthracene	120-12-7	N.D.		0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.038	J	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.053		0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.13		0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.043	J	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.038	J	0.010	0.052	1
08357	Chrysene	218-01-9	0.052		0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.011	J	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.069		0.010	0.052	1
08357	Fluorene	86-73-7	0.015	J	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.030	J	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.042	J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.053		0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.		0.031	0.052	1
08357	Phenanthrene	85-01-8	0.037	J	0.031	0.052	1
08357	Pyrene	129-00-0	0.092		0.010	0.052	1
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	54.4		0.033	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0177	J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.281		0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0011	J	0.00076	0.0050	1
01750	Calcium	7440-70-2	14.4		0.0334	0.200	1

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

Sample Description: WS-004(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120277
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:20 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08041 SDG#: PEI88-06

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	0.0324	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0751	0.0047	0.0150	1
01757	Magnesium	7439-95-4	4.46	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0308	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	0.0420	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	C131902AA	07/10/2013 01:38	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131902AA	07/10/2013 01:38	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13191WAD026	07/17/2013 08:32	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13191WAD026	07/10/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256001	07/11/2013 05:56	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131901848004	07/10/2013 19:25	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131901848004	07/10/2013 19:25	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131901848004	07/10/2013 19:25	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131901848004	07/10/2013 19:25	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131901848004	07/10/2013 19:25	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131901848004	07/10/2013 19:25	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131901848004	07/10/2013 19:25	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131901848004	07/10/2013 19:25	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131901848004	07/10/2013 19:25	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131901848004	07/10/2013 19:25	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131901848004	07/10/2013 19:25	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131905713001	07/10/2013 05:47	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131901848004	07/10/2013 10:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131905713001	07/09/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-004(0.5-1.0)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120278
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:30 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08042 SDG#: PEI88-07

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	8.7		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	1.4	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-004(0.5-1.0)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120278
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:30 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08042 SDG#: PEI88-07

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	20		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.		0.23	1.2	20
08357	Acenaphthylene	208-96-8	N.D.		0.23	1.2	20
08357	Anthracene	120-12-7	0.25	J	0.23	1.2	20
08357	Benzo(a)anthracene	56-55-3	0.50	J	0.23	1.2	20
08357	Benzo(a)pyrene	50-32-8	0.49	J	0.23	1.2	20
08357	Benzo(b)fluoranthene	205-99-2	0.76	J	0.23	1.2	20
08357	Benzo(g,h,i)perylene	191-24-2	0.32	J	0.23	1.2	20
08357	Benzo(k)fluoranthene	207-08-9	0.51	J	0.23	1.2	20
08357	Chrysene	218-01-9	0.57	J	0.23	1.2	20
08357	Dibenz(a,h)anthracene	53-70-3	0.26	J	0.23	1.2	20
08357	Fluoranthene	206-44-0	0.60	J	0.23	1.2	20
08357	Fluorene	86-73-7	N.D.		0.23	1.2	20
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.32	J	0.23	1.2	20
08357	1-Methylnaphthalene	90-12-0	0.24	J	0.23	1.2	20
08357	2-Methylnaphthalene	91-57-6	0.29	J	0.23	1.2	20
08357	Naphthalene	91-20-3	N.D.		0.69	1.2	20
08357	Phenanthrene	85-01-8	N.D.		0.69	1.2	20
08357	Pyrene	129-00-0	0.65	J	0.23	1.2	20
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	43.2		0.033	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0186	J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.346		0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0013	J	0.00076	0.0050	1
01750	Calcium	7440-70-2	8.67		0.0334	0.200	1

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

Sample Description: WS-004(0.5-1.0)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120278
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:30 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08042 SDG#: PEI88-07

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	0.0386	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0780	0.0047	0.0150	1
01757	Magnesium	7439-95-4	5.24	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0361	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	0.0512	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	C131902AA	07/10/2013 02:00	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131902AA	07/10/2013 02:00	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13191WAD026	07/17/2013 09:00	Brian K Graham	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13191WAD026	07/10/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256001	07/11/2013 05:56	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131901848004	07/10/2013 19:29	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131901848004	07/10/2013 19:29	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131901848004	07/10/2013 19:29	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131901848004	07/10/2013 19:29	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131901848004	07/10/2013 19:29	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131901848004	07/10/2013 19:29	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131901848004	07/10/2013 19:29	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131901848004	07/10/2013 19:29	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131901848004	07/10/2013 19:29	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131901848004	07/10/2013 19:29	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131901848004	07/10/2013 19:29	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131905713001	07/10/2013 05:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131901848004	07/10/2013 10:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131905713001	07/09/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120279
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:40 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08071 SDG#: PEI88-08BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL 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	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)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120279
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:40 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08071 SDG#: PEI88-08BKG

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL 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	0.014	J	0.011	0.053	1
08357	Acenaphthylene	208-96-8	0.021	J	0.011	0.053	1
08357	Anthracene	120-12-7	N.D.		0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	0.049	J	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	0.050	J	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	0.15		0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	0.038	J	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	0.054		0.011	0.053	1
08357	Chrysene	218-01-9	0.088		0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	0.053	1
08357	Fluoranthene	206-44-0	0.22		0.011	0.053	1
08357	Fluorene	86-73-7	0.016	J	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.026	J	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	0.030	J	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	0.028	J	0.011	0.053	1
08357	Naphthalene	91-20-3	N.D.		0.032	0.053	1
08357	Phenanthrene	85-01-8	0.14		0.032	0.053	1
08357	Pyrene	129-00-0	0.21		0.011	0.053	1

The GC/MS semivolatile internal standard peak areas listed below are outside the acceptance criteria of -50% to +100%. The recovery for the internal standard(s) is again low but within the QC acceptance limits in the associated matrix spike(s), indicating a matrix effect. The reported results are from the initial analysis of the sample.

Internal Standard - Initial Analysis	% Recovery
Perylene-d12	-57%

Internal Standard - Matrix Spike	% Recovery

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

Sample Description: WS-007(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120279
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:40 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08071 SDG#: PEI88-08BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
	Perylene-d12	-32%				
	Internal Standard - Matrix Spike Dup	% Recovery				
	Perylene-d12	-50%				
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	25.5	0.033	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0106 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0903	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	6.03	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0038 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0052 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.52	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0070 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	0.0084	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	C131902AA	07/10/2013 02:22	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131902AA	07/10/2013 02:22	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13191WAD026	07/16/2013 17:42	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13191WAD026	07/10/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256001	07/11/2013 05:56	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	2	131901848004	07/11/2013 13:16	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131901848004	07/10/2013 18:15	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131901848004	07/10/2013 18:15	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131901848004	07/10/2013 18:15	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131901848004	07/10/2013 18:15	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131901848004	07/10/2013 18:15	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131901848004	07/10/2013 18:15	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131901848004	07/10/2013 18:15	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131901848004	07/10/2013 18:15	Katlin N Cataldi	1

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

Sample Description: WS-007(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120279
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:40 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08071 SDG#: PEI88-08BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07066	Silver	SW-846 6010B	1	131901848004	07/10/2013 18:15	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131901848004	07/10/2013 18:15	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131905713001	07/10/2013 05:51	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131901848004	07/10/2013 10:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131905713001	07/09/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)070813MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120280
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:40 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08071 SDG#: PEI88-08MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	52	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.5	0.1	0.5	1
02898	Benzene	71-43-2	5.6	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.1	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.7	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.4	0.1	0.5	1
02898	Bromoform	75-25-2	5.4	0.1	0.5	1
02898	Bromomethane	74-83-9	4.8	0.1	0.5	1
02898	2-Butanone	78-93-3	40	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.1	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.2	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.2	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.5	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.7	0.1	0.5	1
02898	Chloroethane	75-00-3	4.9	0.1	0.5	1
02898	Chloroform	67-66-3	5.8	0.1	0.5	1
02898	Chloromethane	74-87-3	4.2	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.3	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.3	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.7	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.6	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.1	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.3	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.2	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.3	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.2	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.9	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.6	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.3	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.2	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.7	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	6.2	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.2	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.6	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.0	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	6.1	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	6.0	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.4	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.7	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.8	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.5	0.1	0.5	1
02898	Freon 113	76-13-1	6.4	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.7	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.5	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.2	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.5	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	22	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.7	0.2	0.5	1

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

Sample Description: WS-007(Surface)070813MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120280
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:40 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08071 SDG#: PEI88-08MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	5.3	0.1	0.5	1
02898	Styrene	100-42-5	5.6	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.8	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.8	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.9	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	27	2.0	5.0	1
02898	Toluene	108-88-3	6.2	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	3.9	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.1	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	6.0	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.4	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.9	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.3	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.0	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.3	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.4	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.1	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	17	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	1.0	0.010	0.051	1
08357	Acenaphthylene	208-96-8	1.1	0.010	0.051	1
08357	Anthracene	120-12-7	0.92	0.010	0.051	1
08357	Benzo(a)anthracene	56-55-3	1.0	0.010	0.051	1
08357	Benzo(a)pyrene	50-32-8	1.0	0.010	0.051	1
08357	Benzo(b)fluoranthene	205-99-2	1.1	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	0.69	0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	1.1	0.010	0.051	1
08357	Chrysene	218-01-9	0.94	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	0.79	0.010	0.051	1
08357	Fluoranthene	206-44-0	0.96	0.010	0.051	1
08357	Fluorene	86-73-7	1.1	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.010	0.051	1
08357	Naphthalene	91-20-3	1.1	0.031	0.051	1
08357	Phenanthrene	85-01-8	1.2	0.031	0.051	1
08357	Pyrene	129-00-0	1.1	0.010	0.051	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	42.0	0.033	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.163	0.0068	0.0200	1
07046	Barium	7440-39-3	2.17	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0506	0.00076	0.0050	1
01750	Calcium	7440-70-2	8.83	0.0334	0.200	1

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

Sample Description: WS-007(Surface)070813MS Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120280
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:40 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08071 SDG#: PEI88-08MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.213	0.0016	0.0150	1
07055	Lead	7439-92-1	0.152	0.0047	0.0150	1
01757	Magnesium	7439-95-4	4.85	0.0167	0.100	1
07061	Nickel	7440-02-0	0.526	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.154	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0466	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.548	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00091	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	C131902AA	07/10/2013 02:44	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131902AA	07/10/2013 02:44	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13191WAD026	07/16/2013 18:09	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13191WAD026	07/10/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256001	07/11/2013 05:56	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	2	131901848004	07/11/2013 13:27	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131901848004	07/10/2013 18:27	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131901848004	07/10/2013 18:27	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131901848004	07/10/2013 18:27	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131901848004	07/10/2013 18:27	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131901848004	07/10/2013 18:27	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131901848004	07/10/2013 18:27	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131901848004	07/10/2013 18:27	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131901848004	07/10/2013 18:27	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131901848004	07/10/2013 18:27	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131901848004	07/10/2013 18:27	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131905713001	07/10/2013 05:59	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131901848004	07/10/2013 10:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131905713001	07/09/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)070813MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120281
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:40 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08071 SDG#: PEI88-08MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		ug/l	ug/l	ug/l	
02898	Acetone	67-64-1	49	3.0	5.0	1
02898	Allyl Chloride	107-05-1	4.5	0.1	0.5	1
02898	Benzene	71-43-2	5.5	0.1	0.5	1
02898	Bromobenzene	108-86-1	5.2	0.1	0.5	1
02898	Bromochloromethane	74-97-5	5.6	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	5.4	0.1	0.5	1
02898	Bromoform	75-25-2	5.3	0.1	0.5	1
02898	Bromomethane	74-83-9	4.9	0.1	0.5	1
02898	2-Butanone	78-93-3	40	1.0	5.0	1
02898	n-Butylbenzene	104-51-8	5.3	0.1	0.5	1
02898	sec-Butylbenzene	135-98-8	5.3	0.1	0.5	1
02898	tert-Butylbenzene	98-06-6	5.3	0.1	0.5	1
02898	Carbon Tetrachloride	56-23-5	6.3	0.1	0.5	1
02898	Chlorobenzene	108-90-7	5.7	0.1	0.5	1
02898	Chloroethane	75-00-3	4.9	0.1	0.5	1
02898	Chloroform	67-66-3	5.8	0.1	0.5	1
02898	Chloromethane	74-87-3	4.4	0.2	0.5	1
02898	2-Chlorotoluene	95-49-8	5.3	0.1	0.5	1
02898	4-Chlorotoluene	106-43-4	5.4	0.1	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	5.4	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	5.6	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	5.2	0.1	0.5	1
02898	Dibromomethane	74-95-3	5.2	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	5.3	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	5.3	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	5.3	0.1	0.5	1
02898	Dichlorodifluoromethane	75-71-8	3.9	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.6	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	5.4	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	6.2	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.6	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	6.1	0.1	0.5	1
02898	Dichlorofluoromethane	75-43-4	6.4	0.2	0.5	1
02898	1,2-Dichloropropane	78-87-5	5.6	0.1	0.5	1
02898	1,3-Dichloropropane	142-28-9	5.1	0.1	0.5	1
02898	2,2-Dichloropropane	594-20-7	6.1	0.1	0.5	1
02898	1,1-Dichloropropene	563-58-6	6.0	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	4.6	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	4.8	0.1	0.5	1
02898	Ethyl ether	60-29-7	4.9	0.1	0.5	1
02898	Ethylbenzene	100-41-4	5.5	0.1	0.5	1
02898	Freon 113	76-13-1	6.3	0.2	0.5	1
02898	Hexachlorobutadiene	87-68-3	4.9	0.1	0.5	1
02898	Isopropylbenzene	98-82-8	5.5	0.1	0.5	1
02898	p-Isopropyltoluene	99-87-6	5.3	0.1	0.5	1
02898	Methyl Tertiary Butyl Ether	1634-04-4	4.7	0.1	0.5	1
02898	4-Methyl-2-Pentanone	108-10-1	23	1.0	5.0	1
02898	Methylene Chloride	75-09-2	5.8	0.2	0.5	1

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

Sample Description: WS-007(Surface)070813MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120281
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:40 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08071 SDG#: PEI88-08MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL purge**		**ug/l**	**ug/l**	**ug/l**	
02898	n-Propylbenzene	103-65-1	5.3	0.1	0.5	1
02898	Styrene	100-42-5	5.6	0.1	0.5	1
02898	1,1,1,2-Tetrachloroethane	630-20-6	5.9	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	4.8	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	5.8	0.1	0.5	1
02898	Tetrahydrofuran	109-99-9	26	2.0	5.0	1
02898	Toluene	108-88-3	5.9	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	4.2	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	4.3	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	6.0	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	5.4	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.8	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	5.4	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	5.0	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	5.3	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	5.4	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.0	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	17	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	1.1	0.011	0.053	1
08357	Acenaphthylene	208-96-8	1.1	0.011	0.053	1
08357	Anthracene	120-12-7	0.95	0.011	0.053	1
08357	Benzo(a)anthracene	56-55-3	1.0	0.011	0.053	1
08357	Benzo(a)pyrene	50-32-8	1.1	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	1.3	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	0.71	0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	1.2	0.011	0.053	1
08357	Chrysene	218-01-9	1.1	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	0.79	0.011	0.053	1
08357	Fluoranthene	206-44-0	0.97	0.011	0.053	1
08357	Fluorene	86-73-7	1.1	0.011	0.053	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	0.011	0.053	1
08357	1-Methylnaphthalene	90-12-0	1.2	0.011	0.053	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.011	0.053	1
08357	Naphthalene	91-20-3	1.1	0.032	0.053	1
08357	Phenanthrene	85-01-8	1.3	0.032	0.053	1
08357	Pyrene	129-00-0	1.2	0.011	0.053	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	38.7	0.033	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.163	0.0068	0.0200	1
07046	Barium	7440-39-3	2.08	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0504	0.00076	0.0050	1
01750	Calcium	7440-70-2	8.54	0.0334	0.200	1

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

Sample Description: WS-007(Surface)070813MSD Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120281
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:40 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08071 SDG#: PEI88-08MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.208	0.0016	0.0150	1
07055	Lead	7439-92-1	0.152	0.0047	0.0150	1
01757	Magnesium	7439-95-4	4.21	0.0167	0.100	1
07061	Nickel	7440-02-0	0.522	0.0015	0.0100	1
07036	Selenium	7782-49-2	0.150	0.0084	0.0200	1
07066	Silver	7440-22-4	0.0462	0.0021	0.0050	1
07071	Vanadium	7440-62-2	0.540	0.0020	0.0050	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00092	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	C131902AA	07/10/2013 03:06	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131902AA	07/10/2013 03:06	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13191WAD026	07/16/2013 18:37	Chad A Moline	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13191WAD026	07/10/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256001	07/11/2013 05:56	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	2	131901848004	07/11/2013 13:31	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	131901848004	07/10/2013 18:30	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131901848004	07/10/2013 18:30	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131901848004	07/10/2013 18:30	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131901848004	07/10/2013 18:30	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131901848004	07/10/2013 18:30	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131901848004	07/10/2013 18:30	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131901848004	07/10/2013 18:30	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131901848004	07/10/2013 18:30	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131901848004	07/10/2013 18:30	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131901848004	07/10/2013 18:30	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131905713001	07/10/2013 06:01	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131901848004	07/10/2013 10:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131905713001	07/09/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-007(Surface)070813DUP Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120282
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:40 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08071 SDG#: PEI88-08DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	24.4	0.033	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0096 J	0.0068	0.0200	1
07046	Barium	7440-39-3	0.0896	0.00033	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	1
01750	Calcium	7440-70-2	5.78	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0039 J	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0137 J	0.0047	0.0150	1
01757	Magnesium	7439-95-4	2.41	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0049 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	0.0084	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000060	0.00020	1

General Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256001	07/11/2013 05:56	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131901848004	07/10/2013 23:44	John W Yanzuk II	1
07046	Barium	SW-846 6010B	1	131901848004	07/10/2013 18:23	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131901848004	07/10/2013 18:23	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131901848004	07/10/2013 18:23	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131901848004	07/10/2013 18:23	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131901848004	07/10/2013 23:44	John W Yanzuk II	1
01757	Magnesium	SW-846 6010B	1	131901848004	07/10/2013 18:23	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131901848004	07/10/2013 23:44	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	131901848004	07/10/2013 18:23	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131901848004	07/10/2013 18:23	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131901848004	07/10/2013 18:23	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131905713001	07/10/2013 05:57	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131901848004	07/10/2013 10:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131905713001	07/09/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-007(0.5-1.0)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120283
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:50 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08072 SDG#: PEI88-09

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

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

Sample Description: WS-007(0.5-1.0)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120283
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:50 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08072 SDG#: PEI88-09

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	1.9		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	0.034	J	0.010	0.052	1
08357	Acenaphthylene	208-96-8	0.18		0.010	0.052	1
08357	Anthracene	120-12-7	0.18		0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	0.29		0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	0.28		0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	0.59		0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	0.20		0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	0.46		0.010	0.052	1
08357	Chrysene	218-01-9	0.56		0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	0.085		0.010	0.052	1
08357	Fluoranthene	206-44-0	0.63		0.010	0.052	1
08357	Fluorene	86-73-7	0.064		0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.25		0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	0.043	J	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	0.070		0.010	0.052	1
08357	Naphthalene	91-20-3	0.043	J	0.031	0.052	1
08357	Phenanthrene	85-01-8	0.21		0.031	0.052	1
08357	Pyrene	129-00-0	0.69		0.010	0.052	1

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

Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	133		0.033	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.0555		0.0068	0.0200	1
07046	Barium	7440-39-3	1.22		0.00033	0.0050	1

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

Sample Description: WS-007(0.5-1.0)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120283
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 11:50 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08072 SDG#: PEI88-09

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**	
07049	Cadmium	7440-43-9	0.0042 J	0.00076	0.0050	1
01750	Calcium	7440-70-2	22.9	0.0334	0.200	1
07051	Chromium	7440-47-3	0.128	0.0016	0.0150	1
07055	Lead	7439-92-1	0.144	0.0047	0.0150	1
01757	Magnesium	7439-95-4	18.5	0.0167	0.100	1
07061	Nickel	7440-02-0	0.146	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	0.212	0.0020	0.0050	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00018 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	C131902AA	07/10/2013 03:50	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131902AA	07/10/2013 03:50	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13191WAZ026	07/17/2013 23:13	Joseph M Gambler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13191WAZ026	07/10/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256001	07/11/2013 05:56	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131901848004	07/10/2013 19:41	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131901848004	07/10/2013 19:41	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131901848004	07/10/2013 19:41	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131901848004	07/10/2013 19:41	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131901848004	07/10/2013 19:41	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131901848004	07/10/2013 19:41	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131901848004	07/10/2013 19:41	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131901848004	07/10/2013 19:41	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131901848004	07/10/2013 19:41	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131901848004	07/10/2013 19:41	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131901848004	07/10/2013 19:41	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131905713001	07/10/2013 06:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131901848004	07/10/2013 10:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131905713001	07/09/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-006(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120284
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 12:00 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08061 SDG#: PEI88-10

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	14		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	2.3	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	22		1.0	5.0	10
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)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120284
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 12:00 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08061 SDG#: PEI88-10

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	15		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.		0.21	1.1	20
08357	Acenaphthylene	208-96-8	N.D.		0.21	1.1	20
08357	Anthracene	120-12-7	0.23	J	0.21	1.1	20
08357	Benzo(a)anthracene	56-55-3	0.51	J	0.21	1.1	20
08357	Benzo(a)pyrene	50-32-8	0.51	J	0.21	1.1	20
08357	Benzo(b)fluoranthene	205-99-2	0.91	J	0.21	1.1	20
08357	Benzo(g,h,i)perylene	191-24-2	0.27	J	0.21	1.1	20
08357	Benzo(k)fluoranthene	207-08-9	0.48	J	0.21	1.1	20
08357	Chrysene	218-01-9	0.60	J	0.21	1.1	20
08357	Dibenz(a,h)anthracene	53-70-3	0.23	J	0.21	1.1	20
08357	Fluoranthene	206-44-0	0.64	J	0.21	1.1	20
08357	Fluorene	86-73-7	0.22	J	0.21	1.1	20
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.33	J	0.21	1.1	20
08357	1-Methylnaphthalene	90-12-0	N.D.		0.21	1.1	20
08357	2-Methylnaphthalene	91-57-6	N.D.		0.21	1.1	20
08357	Naphthalene	91-20-3	N.D.		0.63	1.1	20
08357	Phenanthrene	85-01-8	N.D.		0.63	1.1	20
08357	Pyrene	129-00-0	0.72	J	0.21	1.1	20
Metals	**SM 2340 B-1997**		**mg/l**		**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	54.6		0.033	0.20	1
	SW-846 6010B		**mg/l**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.116		0.0068	0.0200	1
07046	Barium	7440-39-3	0.318		0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.00099	J	0.00076	0.0050	1
01750	Calcium	7440-70-2	12.5		0.0334	0.200	1

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

Sample Description: WS-006(Surface)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120284
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 12:00 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08061 SDG#: PEI88-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		mg/l	mg/l	mg/l	
07051	Chromium	7440-47-3	0.0343	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0163	0.0047	0.0150	1
01757	Magnesium	7439-95-4	5.69	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0286	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	0.0491	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	C131902AA	07/10/2013 04:12	Kevin A Sposito	1
02898	Silvertip & Mayflower VOCs8260	SW-846 8260B 25mL purge	1	C131902AA	07/10/2013 04:34	Kevin A Sposito	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131902AA	07/10/2013 04:12	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131902AA	07/10/2013 04:34	Kevin A Sposito	10
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13191WAD026	07/17/2013 09:55	Brian K Graham	20
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13191WAD026	07/10/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256001	07/11/2013 05:56	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131901848004	07/10/2013 19:45	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131901848004	07/10/2013 19:45	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131901848004	07/10/2013 19:45	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131901848004	07/10/2013 19:45	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131901848004	07/10/2013 19:45	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131901848004	07/10/2013 19:45	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131901848004	07/10/2013 19:45	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131901848004	07/10/2013 19:45	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131901848004	07/10/2013 19:45	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131901848004	07/10/2013 19:45	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131901848004	07/10/2013 19:45	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131905713001	07/10/2013 06:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131901848004	07/10/2013 10:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131905713001	07/09/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-006(0.5-1.0)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120285
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 12:10 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08062 SDG#: PEI88-11

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	0.2	J	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)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120285
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 12:10 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08062 SDG#: PEI88-11

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	0.2 J	0.1	0.5	1
02898	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.1	0.5	1
02898	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Trichlorofluoromethane	75-69-4	N.D.	0.1	0.5	1
02898	1,2,3-Trichloropropane	96-18-4	N.D.	0.3	1.0	1
02898	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
02898	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**	**ug/l**	**ug/l**	
08357	Acenaphthene	83-32-9	N.D.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	0.012 J	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.055	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.055	1
08357	Chrysene	218-01-9	N.D.	0.011	0.055	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.055	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.055	1
08357	Fluorene	86-73-7	N.D.	0.011	0.055	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.055	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.055	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.055	1
08357	Naphthalene	91-20-3	N.D.	0.033	0.055	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.055	1
08357	Pyrene	129-00-0	N.D.	0.011	0.055	1
Metals	**SM 2340 B-1997**		**mg/l**	**mg/l**	**mg/l**	
06256	Total Hardness as CaCO3	471-34-1	46.9	0.033	0.20	1
	SW-846 6010B		**mg/l**	**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	0.100	0.0068	0.0200	1
07046	Barium	7440-39-3	0.302	0.00033	0.0050	1
07049	Cadmium	7440-43-9	0.0012 J	0.00076	0.0050	1
01750	Calcium	7440-70-2	9.60	0.0334	0.200	1

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

Sample Description: WS-006(0.5-1.0)070813 Grab Surface Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120285
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013 12:10 by AP

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08062 SDG#: PEI88-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	**mg/l**	
07051	Chromium	7440-47-3	0.0308	0.0016	0.0150	1
07055	Lead	7439-92-1	0.0171	0.0047	0.0150	1
01757	Magnesium	7439-95-4	5.56	0.0167	0.100	1
07061	Nickel	7440-02-0	0.0264	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	0.0463	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	C131902AA	07/10/2013 04:56	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131902AA	07/10/2013 04:56	Kevin A Sposito	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	13191WAD026	07/17/2013 10:22	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	13191WAD026	07/10/2013 13:30	David S Schrum	1
06256	Total Hardness as CaCO3	SM 2340 B-1997	1	131926256001	07/11/2013 05:56	Deborah A Krady	1
07035	Arsenic	SW-846 6010B	1	131901848004	07/10/2013 19:48	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	131901848004	07/10/2013 19:48	Katlin N Cataldi	1
07049	Cadmium	SW-846 6010B	1	131901848004	07/10/2013 19:48	Katlin N Cataldi	1
01750	Calcium	SW-846 6010B	1	131901848004	07/10/2013 19:48	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	131901848004	07/10/2013 19:48	Katlin N Cataldi	1
07055	Lead	SW-846 6010B	1	131901848004	07/10/2013 19:48	Katlin N Cataldi	1
01757	Magnesium	SW-846 6010B	1	131901848004	07/10/2013 19:48	Katlin N Cataldi	1
07061	Nickel	SW-846 6010B	1	131901848004	07/10/2013 19:48	Katlin N Cataldi	1
07036	Selenium	SW-846 6010B	1	131901848004	07/10/2013 19:48	Katlin N Cataldi	1
07066	Silver	SW-846 6010B	1	131901848004	07/10/2013 19:48	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	131901848004	07/10/2013 19:48	Katlin N Cataldi	1
00259	Mercury	SW-846 7470A	1	131905713001	07/10/2013 06:08	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	131901848004	07/10/2013 10:51	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	131905713001	07/09/2013 15:30	Nelli S Markaryan	1

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

Sample Description: WS-TB-91-070813 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120286
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08T91 SDG#: PEI88-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL 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-91-070813 Water
Mayflower, AR
Pipeline Incident

LL Sample # WW 7120286
LL Group # 1402482
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 07/08/2013

Submitted: 07/09/2013 09:20
Reported: 07/18/2013 16:39

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

08T91 SDG#: PEI88-12TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B 25mL 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	C131902AA	07/09/2013 23:26	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131902AA	07/09/2013 23:26	Kevin A Sposito	1

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1402482
Reported: 07/18/13 at 04:39 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: C131902AA	Sample number(s): 7120272-7120281,7120283-7120286								
Acetone	N.D.	3.0	5.0	ug/l	114		73-135		
Allyl Chloride	N.D.	0.1	0.5	ug/l	88		61-130		
Benzene	N.D.	0.1	0.5	ug/l	107		80-120		
Bromobenzene	N.D.	0.1	0.5	ug/l	101		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	116		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	106		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	105		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	100		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	106		70-130		
n-Butylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
sec-Butylbenzene	N.D.	0.1	0.5	ug/l	101		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	120		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	113		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	99		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	113		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	86		55-135		
2-Chlorotoluene	N.D.	0.1	0.5	ug/l	103		80-120		
4-Chlorotoluene	N.D.	0.1	0.5	ug/l	106		80-120		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	108		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	111		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	105		80-120		
Dibromomethane	N.D.	0.1	0.5	ug/l	106		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	106		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	105		80-112		
Dichlorodifluoromethane	N.D.	0.1	0.5	ug/l	76		39-120		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	108		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	109		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	116		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	109		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	117		80-120		
Dichlorofluoromethane	N.D.	0.2	0.5	ug/l	124		63-149		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	110		80-120		
1,3-Dichloropropane	N.D.	0.1	0.5	ug/l	101		80-120		
2,2-Dichloropropane	N.D.	0.1	0.5	ug/l	113		75-122		
1,1-Dichloropropene	N.D.	0.1	0.5	ug/l	111		80-121		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	91		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	97		73-126		
Ethyl ether	N.D.	0.1	0.5	ug/l	99		59-130		
Ethylbenzene	N.D.	0.1	0.5	ug/l	105		80-120		
Freon 113	N.D.	0.2	0.5	ug/l	118		78-132		
Hexachlorobutadiene	N.D.	0.1	0.5	ug/l	97		61-125		

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1402482
Reported: 07/18/13 at 04:39 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	106		80-120		
p-Isopropyltoluene	N.D.	0.1	0.5	ug/l	101		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.1	0.5	ug/l	95		80-125		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	91		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	114		80-120		
n-Propylbenzene	N.D.	0.1	0.5	ug/l	102		80-120		
Styrene	N.D.	0.1	0.5	ug/l	110		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	115		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	98		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	111		80-120		
Tetrahydrofuran	N.D.	2.0	5.0	ug/l	105		65-131		
Toluene	N.D.	0.1	0.5	ug/l	109		80-120		
1,2,3-Trichlorobenzene	N.D.	0.1	0.5	ug/l	82		63-120		
1,2,4-Trichlorobenzene	N.D.	0.1	0.5	ug/l	85		70-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	113		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	110		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	111		80-120		
Trichlorofluoromethane	N.D.	0.1	0.5	ug/l	105		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	104		80-120		
1,3,5-Trimethylbenzene	N.D.	0.1	0.5	ug/l	103		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	93		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	109		80-120		
Batch number: 13191WAD026	Sample number(s): 7120272-7120281,7120284-7120285								
Acenaphthene	N.D.	0.010	0.050	ug/l	103		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	108		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	106		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	104		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	102		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	107		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	98		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	113		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	107		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	94		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	112		73-116		
Fluorene	N.D.	0.010	0.050	ug/l	106		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	92		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	110		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	106		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	105		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	106		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	106		71-116		
Batch number: 13191WAZ026	Sample number(s): 7120283								
Acenaphthene	N.D.	0.010	0.050	ug/l	106		65-124		
Acenaphthylene	N.D.	0.010	0.050	ug/l	105		72-113		
Anthracene	N.D.	0.010	0.050	ug/l	107		70-117		
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	96		75-115		
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	104		72-120		
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	114		74-130		
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	103		63-121		
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	109		74-118		
Chrysene	N.D.	0.010	0.050	ug/l	106		75-112		
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	95		66-122		
Fluoranthene	N.D.	0.010	0.050	ug/l	114		73-116		

*- 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: 1402482
Reported: 07/18/13 at 04:39 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	N.D.	0.010	0.050	ug/l	102		74-115		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	97		66-122		
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	112		72-114		
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	108		74-119		
Naphthalene	N.D.	0.030	0.050	ug/l	106		67-118		
Phenanthrene	N.D.	0.030	0.050	ug/l	106		72-109		
Pyrene	N.D.	0.010	0.050	ug/l	105		71-116		
Batch number: 131901848004	Sample number(s): 7120272-7120285								
Arsenic	N.D.	0.0068	0.0200	mg/l	101		90-113		
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110		
Cadmium	N.D.	0.00076	0.0050	mg/l	100		90-112		
Calcium	N.D.	0.0334	0.200	mg/l	99		90-110		
Chromium	N.D.	0.0016	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0047	0.0150	mg/l	101		88-110		
Magnesium	N.D.	0.0167	0.100	mg/l	98		90-110		
Nickel	N.D.	0.0015	0.0100	mg/l	103		90-111		
Selenium	N.D.	0.0084	0.0200	mg/l	97		80-120		
Silver	N.D.	0.0021	0.0050	mg/l	91		80-120		
Vanadium	N.D.	0.0020	0.0050	mg/l	105		90-110		
Batch number: 131905713001	Sample number(s): 7120272-7120285								
Mercury	N.D.	0.00006 0	0.00020	mg/l	88		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: C131902AA	Sample number(s): 7120272-7120281,7120283-7120286 UNSPK: 7120279								
Acetone	123	116	57-163	5	30				
Allyl Chloride	90	90	67-139	0	30				
Benzene	112	110	87-126	1	30				
Bromobenzene	103	104	80-123	1	30				
Bromochloromethane	115	113	82-125	2	30				
Bromodichloromethane	109	108	82-133	1	30				
Bromoform	108	106	60-138	2	30				
Bromomethane	97	99	41-145	2	30				
2-Butanone	107	106	63-146	1	30				
n-Butylbenzene	103	106	83-131	3	30				
sec-Butylbenzene	104	107	84-128	3	30				
tert-Butylbenzene	105	106	84-135	1	30				
Carbon Tetrachloride	130	127	81-148	2	30				
Chlorobenzene	115	114	78-133	1	30				
Chloroethane	97	98	70-139	1	30				
Chloroform	116	115	86-136	1	30				
Chloromethane	85	88	55-152	3	30				
2-Chlorotoluene	105	107	81-120	2	30				
4-Chlorotoluene	107	108	82-119	1	30				
1,2-Dibromo-3-chloropropane	114	109	43-143	4	30				

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1402482
Reported: 07/18/13 at 04:39 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
Dibromochloromethane	113	112	79-125	1	30				
1,2-Dibromoethane	103	104	84-127	2	30				
Dibromomethane	105	105	83-126	1	30				
1,2-Dichlorobenzene	104	106	83-117	2	30				
1,3-Dichlorobenzene	105	106	81-118	1	30				
1,4-Dichlorobenzene	105	106	79-120	2	30				
Dichlorodifluoromethane	78	77	28-136	1	30				
1,1-Dichloroethane	113	112	88-136	1	30				
1,2-Dichloroethane	107	109	82-135	2	30				
1,1-Dichloroethene	124	123	83-150	0	30				
cis-1,2-Dichloroethene	114	112	82-129	1	30				
trans-1,2-Dichloroethene	124	121	88-127	2	30				
Dichlorofluoromethane	125	127	59-176	2	30				
1,2-Dichloropropane	112	112	91-126	0	30				
1,3-Dichloropropane	100	102	80-127	2	30				
2,2-Dichloropropane	123	122	80-134	1	30				
1,1-Dichloropropene	120	119	86-139	1	30				
cis-1,3-Dichloropropene	88	93	74-132	5	30				
trans-1,3-Dichloropropene	94	97	71-128	3	30				
Ethyl ether	96	98	67-127	2	30				
Ethylbenzene	110	110	80-140	0	30				
Freon 113	127	126	87-158	1	30				
Hexachlorobutadiene	94	99	65-128	5	30				
Isopropylbenzene	110	111	81-133	1	30				
p-Isopropyltoluene	104	106	84-124	3	30				
Methyl Tertiary Butyl Ether	91	95	82-132	4	30				
4-Methyl-2-Pentanone	88	90	69-149	3	30				
Methylene Chloride	115	116	84-122	1	30				
n-Propylbenzene	105	106	79-131	1	30				
Styrene	111	112	63-151	1	30				
1,1,1,2-Tetrachloroethane	116	117	87-126	1	30				
1,1,2,2-Tetrachloroethane	97	97	75-131	0	30				
Tetrachloroethene	117	115	75-129	1	30				
Tetrahydrofuran	107	102	56-154	5	30				
Toluene	119	112	83-127	5	30				
1,2,3-Trichlorobenzene	78	83	73-125	7	30				
1,2,4-Trichlorobenzene	82	86	77-120	5	30				
1,1,1-Trichloroethane	120	120	85-140	0	30				
1,1,2-Trichloroethane	107	109	85-129	1	30				
Trichloroethene	118	116	85-131	2	30				
Trichlorofluoromethane	106	109	67-161	2	30				
1,2,3-Trichloropropane	99	99	76-120	0	30				
1,2,4-Trimethylbenzene	105	106	87-126	1	30				
1,3,5-Trimethylbenzene	107	109	89-129	2	30				
Vinyl Chloride	103	99	65-151	4	30				
Xylene (Total)	113	112	81-137	1	30				
Batch number: 13191WAD026	Sample number(s): 7120272-7120281,7120284-7120285 UNSPK: 7120279								
Acenaphthene	100	101	59-127	5	30				
Acenaphthylene	100	101	33-146	4	30				
Anthracene	90	89	69-119	3	30				
Benzo(a)anthracene	92	92	67-124	3	30				

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1402482
Reported: 07/18/13 at 04:39 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
Benzo(a)pyrene	94	98	64-123	8	30				
Benzo(b)fluoranthene	97	110	61-133	14	30				
Benzo(g,h,i)perylene	64	62	36-138	2	30				
Benzo(k)fluoranthene	100	104	59-128	7	30				
Chrysene	83	90	62-118	11	30				
Dibenz(a,h)anthracene	77	74	32-141	0	30				
Fluoranthene	72	70	65-123	1	30				
Fluorene	104	104	69-124	4	30				
Indeno(1,2,3-cd)pyrene	73	72	29-143	2	30				
1-Methylnaphthalene	107	108	67-117	4	30				
2-Methylnaphthalene	104	105	71-126	4	30				
Naphthalene	103	104	58-131	5	30				
Phenanthrene	104	107	67-117	6	30				
Pyrene	82	97	59-125	17	30				
Batch number: 13191WAZ026	Sample number(s): 7120283 UNSPK: P91WZUS								
Acenaphthene	114	113	59-127	3	30				
Acenaphthylene	114	117	33-146	6	30				
Anthracene	88	81	69-119	4	30				
Benzo(a)anthracene	93	95	67-124	5	30				
Benzo(a)pyrene	101	89	64-123	9	30				
Benzo(b)fluoranthene	98	90	61-133	4	30				
Benzo(g,h,i)perylene	74	90	36-138	22	30				
Benzo(k)fluoranthene	91	89	59-128	2	30				
Chrysene	78	84	62-118	10	30				
Dibenz(a,h)anthracene	73	81	32-141	13	30				
Fluoranthene	52*	73	65-123	27	30				
Fluorene	112	111	69-124	3	30				
Indeno(1,2,3-cd)pyrene	90	104	29-143	17	30				
1-Methylnaphthalene	110	112	67-117	5	30				
2-Methylnaphthalene	108	105	71-126	1	30				
Naphthalene	109	98	58-131	5	30				
Phenanthrene	103	108	67-117	7	30				
Pyrene	61	71	59-125	15	30				
Batch number: 131901848004	Sample number(s): 7120272-7120285 UNSPK: 7120279 BKG: 7120279								
Arsenic	102	102	81-123	0	20	0.0106 J	0.0096 J	10 (1)	20
Barium	104	99	78-118	4	20	0.0903	0.0896	1	20
Cadmium	101	101	83-116	0	20	N.D.	N.D.	0 (1)	20
Calcium	70*	63*	81-118	3	20	6.03	5.78	4	20
Chromium	105	102	81-120	3	20	0.0038 J	0.0039 J	4 (1)	20
Lead	98	98	75-125	0	20	0.0052 J	0.0137 J	90* (1)	20
Magnesium	116	84	75-125	14	20	2.52	2.41	4	20
Nickel	104	103	86-115	1	20	0.0070 J	0.0049 J	35* (1)	20
Selenium	103	100	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	93	92	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	108	106	90-111	2	20	0.0084	0.0084	0 (1)	20
Batch number: 131905713001	Sample number(s): 7120272-7120285 UNSPK: 7120279 BKG: 7120279								
Mercury	91	92	80-120	2	20	N.D.	N.D.	0 (1)	20

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

Quality Control Summary

Client Name: ExxonMobil Group Number: 1402482
Reported: 07/18/13 at 04:39 PM

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: C131902AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7120272	110	100	99	94
7120273	111	101	99	93
7120274	111	104	98	93
7120275	111	103	99	92
7120276	110	102	98	93
7120277	110	103	98	92
7120278	111	103	98	92
7120279	111	102	98	93
7120280	105	99	103	99
7120281	105	99	103	100
7120283	109	102	99	93
7120284	111	100	98	95
7120285	111	102	98	94
7120286	110	103	99	94
Blank	111	103	98	93
LCS	106	101	103	101
MS	105	99	103	99
MSD	105	99	103	100
Limits:	77-114	74-113	77-110	78-110

Analysis Name: PAHs in waters by SIM
Batch number: 13191WAD026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7120272	98	68	97
7120273	97	63	99
7120274	97	75	100
7120275	99	71	100
7120276	98	75	99
7120277	74	90	102
7120278	60*	50*	81
7120279	97	79	104
7120280	88	99	105
7120281	78	96	105
7120284	58*	55*	85
7120285	93	79	98
Blank	99	94	102
LCS	103	99	106
MS	88	99	105
MSD	78	96	105
Limits:	64-120	62-141	58-134

Analysis Name: PAHs in waters by SIM

*- Outside of specification
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Quality Control Summary

Client Name: ExxonMobil Group Number: 1402482
Reported: 07/18/13 at 04:39 PM

Surrogate Quality Control

Batch number: 13191WAZ026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7120283	57*	68	93
Blank	98	96	104
LCS	101	98	107
MS	73	110	106
MSD	82	86	105
Limits:	64-120	62-141	58-134

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

ExxonMobil Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories use only
Acct. # 14739 Group # 1402482 Sample # 7120272-86
Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility #/SID: MAY FLOWER PIPELINE INCIDENT
Site Address: MAY FLOWER, AR
ExxonMobil PM: SCOTT BUSHROE
Cost Center/AFE:
Consultant/Office: ~~STEVE BARRICK~~ (AP) ARCADIS - US
Consultant PM: STEVE BARRICK
Consultant Phone #: 919-202-6799
Sampler: A. PARRINELLO / HANS VON ALLER

4 Matrix: Soil ☐ Sediment ☐ Water ✓ Ground ☐ Potable ☐ Surface ✓ NPDES ☐ Oil ☐ Air ☐

SCR#:

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

6 Remarks
DATA ANALYSIS QUESTIONS: LYNDI MOTT

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Total # of Containers	5 Analyses Requested: Preservation Code H: VOCs 8260B	PAHs 8270 SIM	RCRA METALS + Ni, Va, Cu mg
WS-003 (SURFACE) 070813	7/8/13	0915	✓		6	✓	✓	✓
WS-002 (SURFACE) 070813		0945	✓		6	✓	✓	✓
WS-005 (SURFACE) 070813		1045	✓		6	✓	✓	✓
WS-001 (SURFACE) 070813		1100	✓		6	✓	✓	✓
WS-001 (0.5-1.0) 070813		1110	✓		6	✓	✓	✓
WS-004 (SURFACE) 070813		1120	✓		6	✓	✓	✓
WS-004 (0.5-1.0) 070813		1130	✓		6	✓	✓	✓
WS-007 (SURFACE) 070813		1140	✓		6	✓	✓	✓
WS-007 (SURFACE) 070813 MS		~~1130~~ 1140 (AP)	✓		6	✓	✓	✓
WS-007 (SURFACE) 070813 MSD		1140	✓		6	✓	✓	✓
WS-007 (0.5-1.0) 070813		1150	✓		6	✓	✓	✓
WS-006 (SURFACE) 070813		1200	✓		6	✓	✓	✓

MS
MSD

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
	7/8/13	1560			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier			Received by	Date	Time
UPS ____ FedEx X Other ____			Brenda Bum	7.9.13	920

Temperature Upon Receipt 20-29 °C

Custody Seals Intact? Yes No

ExxonMobil Analysis Request/Chain of Custody

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Acct. # 14739 For Eurofins Lancaster Laboratories use only Group # 1402482 Sample # 7120272-86

2 of 2

Instructions on reverse side correspond with circled numbers.

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 #: 919-202-6799

Sampler: A. PARRINELLO / HANS VON ALLER

SCR#:

4 Matrix

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

Preservation Codes

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

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	Total # of Containers	5 Analyses Requested: VOCs 8260B	PAHs 8270 SIM	RCRA metals + Ni, Va, Cu, Mo
WS-006 (0.5-1.0) 070813	7/8/13	1210	✓			✓	✓	✓
WS-TB-91-070813	7/8/13	—	—			—		

6 Remarks

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
	7/8/13	1500			9
Relinquished by Commercial Carrier: UPS ___ FedEx X Other ___			Received by: Brandy Bank	7.9.13	920

Temperature Upon Receipt 2.0-2.9 °C

Custody Seals Intact? (Yes) No

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Environmental Sample Administration 1402482
Receipt Documentation Log

Client/Project: Exxon Mobil

Date of Receipt: 7.9.13

Time of Receipt: 920

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	2.9	TB	WI	Y	B	
2	↓	2.0	↓	↓	↓	↓	
3							
4							
5							
6							

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

Paperwork Discrepancy/Unpacking Problems:

Rec 2 TBs

Unpacker Signature/Emp#: Brandy Barclay 2299 **Date/Time:** 7.9.13 951

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.