

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

ExxonMobil
PO Box 4592
Houston TX 77210-4592

January 13, 2015

Project: Mayflower, AR Pipeline Incident

Submittal Date: 01/08/2015
Group Number: 1529638
SDG: PEO49
PO Number: 4410272923
Release Number: SIXSMITH
State of Sample Origin: AR

Client Sample Description

WS-007(0.5-1.0)010615 Grab Surface Water
WS-009(Surface)010615 Grab Surface Water
WS-001(0.5-1.0)010615 Grab Surface Water
WS-021(Surface)010615 Grab Surface Water
WS-004(0.5-1.0)010615 Grab Surface Water

Lancaster Labs (LL)

7732563
7732564
7732565
7732566
7732567

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

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 Parmelee
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael L Sixsmith
ELECTRONIC COPY TO	ExxonMobil	Attn: Julie Foster

ELECTRONIC ARCADIS
COPY TO
ELECTRONIC ARCADIS
COPY TO

Attn: Sonal Patil

Attn: Kim Abbott

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LL Group #: 1529638

General Comments:

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

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

Project specific QC samples are not included in this data set

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

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

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

Analysis Specific Comments:**SW-846 8270C SIM, GC/MS Semivolatiles**

Sample #s: 7732563, 7732564, 7732565, 7732566

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

Sample #s: 7732567

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis. 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.

Batch #: 15008WAK026 (Sample number(s): 7732563-7732567)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7732567

Sample Description: WS-007(0.5-1.0)010615 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7732563
LL Group # 1529638
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 01/06/2015 13:50 by ZP ExxonMobil
PO Box 4592
Submitted: 01/08/2015 09:30 Houston TX 77210-4592
Reported: 01/13/2015 10:41

007-- SDG#: PEO49-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	0.020 J	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	0.020 J	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	0.031 J	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.060	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.060	1
08357	Pyrene	129-00-0	0.026 J	0.010	0.050	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15008WAK026	01/10/2015 02:46	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15008WAK026	01/09/2015 09:00	Jessica M Velez	1

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

Sample Description: WS-009(Surface)010615 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7732564
LL Group # 1529638
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 01/06/2015 13:55 by ZP ExxonMobil
PO Box 4592
Submitted: 01/08/2015 09:30 Houston TX 77210-4592
Reported: 01/13/2015 10:41

009-- SDG#: PEO49-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	0.012 J	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.060	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.060	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15008WAK026	01/10/2015 03:13	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15008WAK026	01/09/2015 09:00	Jessica M Velez	1

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

Sample Description: WS-001(0.5-1.0)010615 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7732565
LL Group # 1529638
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 01/06/2015 14:00 by ZP ExxonMobil
PO Box 4592
Submitted: 01/08/2015 09:30 Houston TX 77210-4592
Reported: 01/13/2015 10:41

001-- SDG#: PEO49-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
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	0.013 J	0.010	0.052	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.052	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.052	1
08357	Chrysene	218-01-9	0.014 J	0.010	0.052	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.052	1
08357	Fluoranthene	206-44-0	0.022 J	0.010	0.052	1
08357	Fluorene	86-73-7	N.D.	0.010	0.052	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.052	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.052	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.052	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.063	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.063	1
08357	Pyrene	129-00-0	0.017 J	0.010	0.052	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15008WAK026	01/10/2015 03:41	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15008WAK026	01/09/2015 09:00	Jessica M Velez	1

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

Sample Description: WS-021(Surface)010615 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7732566
LL Group # 1529638
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 01/06/2015 14:05 by ZP ExxonMobil
PO Box 4592
Submitted: 01/08/2015 09:30 Houston TX 77210-4592
Reported: 01/13/2015 10:41

021-- SDG#: PEO49-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.050	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.050	1
08357	Anthracene	120-12-7	N.D.	0.010	0.050	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.050	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.050	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	0.050	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	0.050	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	0.050	1
08357	Chrysene	218-01-9	N.D.	0.010	0.050	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	0.050	1
08357	Fluoranthene	206-44-0	0.015 J	0.010	0.050	1
08357	Fluorene	86-73-7	N.D.	0.010	0.050	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.050	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.050	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.050	1
08357	Naphthalene	91-20-3	N.D.	0.030	0.060	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.060	1
08357	Pyrene	129-00-0	0.011 J	0.010	0.050	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15008WAK026	01/10/2015 04:08	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15008WAK026	01/09/2015 09:00	Jessica M Velez	1

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

Sample Description: WS-004(0.5-1.0)010615 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7732567
LL Group # 1529638
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 01/06/2015 14:10 by ZP ExxonMobil
PO Box 4592
Houston TX 77210-4592
Submitted: 01/08/2015 09:30
Reported: 01/13/2015 10:41

004-- SDG#: PEO49-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
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	0.018 J	0.010	0.051	1
08357	Fluorene	86-73-7	N.D.	0.010	0.051	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	0.051	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	0.051	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	0.051	1
08357	Naphthalene	91-20-3	N.D.	0.031	0.062	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.062	1
08357	Pyrene	129-00-0	0.016 J	0.010	0.051	1

The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

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.

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
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15008WAK026	01/10/2015 04:36	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15008WAK026	01/09/2015 09:00	Jessica M Velez	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 01/13/15 at 10:41 AM

Group Number: 1529638

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

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 15008WAK026	Sample number(s): 7732563-7732567								
Acenaphthene	N.D.	0.010	0.050	ug/l	101	99	82-126	3	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	101	98	72-124	3	30
Anthracene	N.D.	0.010	0.050	ug/l	102	99	83-125	3	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	87	88	79-122	1	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	104	99	72-126	4	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	105	101	79-136	4	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	101	99	59-137	2	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	109	106	72-129	3	30
Chrysene	N.D.	0.010	0.050	ug/l	111	108	77-122	2	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	99	98	42-143	1	30
Fluoranthene	N.D.	0.010	0.050	ug/l	95	92	76-121	3	30
Fluorene	N.D.	0.010	0.050	ug/l	102	99	82-119	3	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	95	94	53-136	1	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	100	96	75-117	4	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	96	92	68-124	4	30
Naphthalene	N.D.	0.030	0.060	ug/l	101	98	78-117	3	30
Phenanthrene	N.D.	0.030	0.060	ug/l	103	100	83-116	4	30
Pyrene	N.D.	0.010	0.050	ug/l	97	99	70-124	2	30

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: PAHs in waters by SIM

Batch number: 15008WAK026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7732563	71	74	73
7732564	85	94	78
7732565	70	77	71
7732566	71	71	72
7732567	53*	44	61
Blank	89	101	92
LCS	87	109	94
LCSD	87	108	91
Limits:	56-134	36-156	59-132

*- Outside of specification

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

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ExxonMobil
Reported: 01/13/15 at 10:41 AM

Group Number: 1529638

Surrogate Quality Control

*- Outside of specification

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

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

ExxonMobil Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 14739 Group # 1529638 Sample # 7732563-67
 Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested										6 Remarks																		
Facility #/SID <u>Mayflower Pipeline Incident</u>			Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/>	Ground <input type="checkbox"/> Surface <input checked="" type="checkbox"/>	Total # of Containers <u>PAH 8270 SIM</u>	Preservation Code										SCR#: _____																		
Site Address <u>Mayflower, AK</u>						<table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Preservation Codes</th> </tr> <tr> <td>H = HCl</td> <td>T = Thiosulfate</td> </tr> <tr> <td>N = HNO₃</td> <td>B = NaOH</td> </tr> <tr> <td>S = H₂SO₄</td> <td>O = Other</td> </tr> </table>										Preservation Codes		H = HCl	T = Thiosulfate	N = HNO ₃	B = NaOH	S = H ₂ SO ₄	O = Other											
Preservation Codes																																		
H = HCl	T = Thiosulfate																																	
N = HNO ₃	B = NaOH																																	
S = H ₂ SO ₄	O = Other																																	
ExxonMobil PM <u>Mike Sixsmith</u>	Cost Center/AFE																																	
Consultant/Office <u>Accadis</u>																																		
Consultant PM <u>Steve Barrick</u>			Consultant Phone #		<table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">9</th> </tr> <tr> <td style="width: 50%;"> Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour 24 hour </td> <td style="width: 50%;"> Relinquished by <u>Lab</u> Date _____ Time _____ Received by <u>Zac Powers</u> Date <u>1.6.15</u> Time <u>0800</u> </td> </tr> <tr> <td> Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____ </td> <td> Relinquished by <u>Zac Powers</u> Date <u>1.7.15</u> Time <u>1400</u> Received by <u>UPS</u> </td> </tr> <tr> <td> EDD (circle if required) Locus EIM (default) Other _____ </td> <td> Relinquished by Commercial Carrier UPS <input checked="" type="checkbox"/> FedEx _____ Other _____ Received by <u>C. Eschle</u> Date <u>1/8/15</u> Time <u>0930</u> </td> </tr> <tr> <td colspan="3"> Temperature Upon Receipt <u>1.4</u> °C </td> <td colspan="3"> Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> </table>										9		Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour 24 hour	Relinquished by <u>Lab</u> Date _____ Time _____ Received by <u>Zac Powers</u> Date <u>1.6.15</u> Time <u>0800</u>	Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____	Relinquished by <u>Zac Powers</u> Date <u>1.7.15</u> Time <u>1400</u> Received by <u>UPS</u>	EDD (circle if required) Locus EIM (default) Other _____	Relinquished by Commercial Carrier UPS <input checked="" type="checkbox"/> FedEx _____ Other _____ Received by <u>C. Eschle</u> Date <u>1/8/15</u> Time <u>0930</u>	Temperature Upon Receipt <u>1.4</u> °C			Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
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Client: EXXONMOBIL

MAYFLOWER PIPELINE INCIDENT

Delivery and Receipt Information

Delivery Method:	<u>UPS</u>	Arrival Timestamp:	<u>01/08/2015 9:30</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>AR</u>		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Corey Eshleman (3647) at 10:07 on 01/08/2015

Samples Chilled Details: MAYFLOWER PIPELINE INCIDENT

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	1.4	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

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

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

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

> greater than

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

ppb parts per billion

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

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A** TIC is a possible aldol-condensation product
- B** Analyte was also detected in the blank
- C** Pesticide result confirmed by GC/MS
- D** Compound quantitated on a diluted sample
- E** Concentration exceeds the calibration range of the instrument
- N** Presumptive evidence of a compound (TICs only)
- P** Concentration difference between primary and confirmation columns $>25\%$
- U** Compound was not detected
- X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- B** Value is $<$ CRDL, but \geq IDL
- E** Estimated due to interference
- M** Duplicate injection precision not met
- N** Spike sample not within control limits
- S** Method of standard additions (MSA) used for calculation
- U** Compound was not detected
- W** Post digestion spike out of control limits
- *** Duplicate analysis not within control limits
- +** Correlation coefficient for MSA <0.995

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

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

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

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

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