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

April 01, 2015

Project: Mayflower, AR Pipeline Incident

Submittal Date: 03/26/2015
Group Number: 1548456
SDG: PEO61
PO Number: 4410272923
Release Number: SIXSMITH
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LL) #
WS-007(0.5-1.0)032515 Grab Surface Water	7821866
WS-009(Surface)032515 Grab Surface Water	7821867
WS-001(0.5-1.0)032515 Grab Surface Water	7821868
WS-021(Surface)032515 Grab Surface Water	7821869
WS-004(0.5-1.0)032515 Grab Surface Water	7821870

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	ExxonMobil	Attn: Joe Abel
ELECTRONIC COPY TO	ARCADIS	Attn: Kim Abbott
ELECTRONIC COPY TO	ARCADIS	Attn: Sonal Patil
ELECTRONIC COPY TO	ExxonMobil	Attn: Julie Foster
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael L Sixsmith
ELECTRONIC COPY TO	ARCADIS	Attn: Rhiannon Parmelee
ELECTRONIC COPY TO	ARCADIS	Attn: Emily Leamer

ELECTRONIC COPY TO	ExxonMobil	Attn: Michael J. Firth
ELECTRONIC COPY TO	ARCADIS	Attn: Lyndi Mott
ELECTRONIC COPY TO	ARCADIS	Attn: Stephen Barrick

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LL Group #: 1548456

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: 7821866, 7821867, 7821868, 7821869

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

Sample #s: 7821870

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 #: 15086WAA026 (Sample number(s): 7821867-7821870)

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7821870

Sample Description: WS-007(0.5-1.0)032515 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7821866
LL Group # 1548456
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 03/25/2015 15:20 by ZP

Submitted: 03/26/2015 09:45
Reported: 04/01/2015 15:25

ExxonMobil
PO Box 4592
Houston TX 77210-4592

WS007 SDG#: PEO61-01

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	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.		0.011	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	0.011	J	0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	0.023	J	0.011	0.053	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.011	0.053	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.011	0.053	1
08357	Chrysene	218-01-9	0.015	J	0.011	0.053	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	0.053	1
08357	Fluoranthene	206-44-0	0.024	J	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	0.063	1
08357	Phenanthrene	85-01-8	N.D.		0.032	0.063	1
08357	Pyrene	129-00-0	0.013	J	0.011	0.053	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	15090WAB026	04/01/2015 12:03	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	2	15090WAB026	03/31/2015 18:00	Nicholas W Shroyer	1

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

Sample Description: WS-009(Surface)032515 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7821867
LL Group # 1548456
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 03/25/2015 15:25 by ZP

Submitted: 03/26/2015 09:45
Reported: 04/01/2015 15:25

ExxonMobil
PO Box 4592
Houston TX 77210-4592

WS009 SDG#: PEO61-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	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.	0.011	0.055	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.055	1
08357	Anthracene	120-12-7	N.D.	0.011	0.055	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.055	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.055	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.055	1
08357	Benzo(g,h,i)perylene	191-24-2	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	0.066	1
08357	Phenanthrene	85-01-8	N.D.	0.033	0.066	1
08357	Pyrene	129-00-0	N.D.	0.011	0.055	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	15086WAA026	03/30/2015 13:06	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15086WAA026	03/28/2015 16:15	Nicholas W Shroyer	1

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

Sample Description: WS-001(0.5-1.0)032515 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7821868
LL Group # 1548456
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 03/25/2015 15:35 by ZP

Submitted: 03/26/2015 09:45
Reported: 04/01/2015 15:25

ExxonMobil
PO Box 4592
Houston TX 77210-4592

WS001 SDG#: PEO61-03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	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	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	0.061	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.061	1
08357	Pyrene	129-00-0	N.D.	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.

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	15086WAA026	03/30/2015 13:34	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15086WAA026	03/28/2015 16:15	Nicholas W Shroyer	1

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

Sample Description: WS-021(Surface)032515 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7821869
LL Group # 1548456
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 03/25/2015 15:40 by ZP

Submitted: 03/26/2015 09:45
Reported: 04/01/2015 15:25

ExxonMobil
PO Box 4592
Houston TX 77210-4592

WS021 SDG#: PEO61-04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	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.	0.011	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	0.064	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.064	1
08357	Pyrene	129-00-0	N.D.	0.011	0.053	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	15086WAA026	03/30/2015 14:02	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15086WAA026	03/28/2015 16:15	Nicholas W Shroyer	1

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

Sample Description: WS-004(0.5-1.0)032515 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7821870
LL Group # 1548456
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 03/25/2015 15:45 by ZP

Submitted: 03/26/2015 09:45
Reported: 04/01/2015 15:25

ExxonMobil
PO Box 4592
Houston TX 77210-4592

WS004 SDG#: PEO61-05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	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.	0.011	0.054	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	0.054	1
08357	Anthracene	120-12-7	N.D.	0.011	0.054	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	0.054	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	0.054	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	0.054	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	0.054	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	0.054	1
08357	Chrysene	218-01-9	N.D.	0.011	0.054	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	0.054	1
08357	Fluoranthene	206-44-0	N.D.	0.011	0.054	1
08357	Fluorene	86-73-7	N.D.	0.011	0.054	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	0.054	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	0.054	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	0.054	1
08357	Naphthalene	91-20-3	N.D.	0.032	0.064	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.064	1
08357	Pyrene	129-00-0	N.D.	0.011	0.054	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	15086WAA026	03/30/2015 14:29	Holly B Ziegler	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15086WAA026	03/28/2015 16:15	Nicholas W Shroyer	1

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

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: ExxonMobil Group Number: 1548456
Reported: 04/01/2015 15:25

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: 15086WAA026	Sample number(s): 7821867-7821870								
Acenaphthene	N.D.	0.010	0.050	ug/l	90	78	76-139	13	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	88	76	67-120	14	30
Anthracene	N.D.	0.010	0.050	ug/l	96	86	72-128	11	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	95	87	71-127	9	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	83	71	64-132	15	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	90	78	71-139	14	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	67	60	49-140	11	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	82	70	63-136	15	30
Chrysene	N.D.	0.010	0.050	ug/l	87	79	72-132	9	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	50	47	37-142	5	30
Fluoranthene	N.D.	0.010	0.050	ug/l	97	79	76-121	20	30
Fluorene	N.D.	0.010	0.050	ug/l	92	81	71-124	14	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	62	56	45-136	11	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	82	74	65-122	11	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	82	73	59-124	12	30
Naphthalene	N.D.	0.030	0.060	ug/l	83	72	69-119	14	30
Phenanthrene	N.D.	0.030	0.060	ug/l	91	81	75-121	12	30
Pyrene	N.D.	0.010	0.050	ug/l	91	79	70-124	15	30
Batch number: 15090WAB026	Sample number(s): 7821866								
Acenaphthene	N.D.	0.010	0.050	ug/l	88	91	76-139	3	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	92	95	67-120	4	30
Anthracene	N.D.	0.010	0.050	ug/l	101	103	72-128	2	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	99	102	71-127	3	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	90	91	64-132	0	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	99	100	71-139	1	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	81	80	49-140	1	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	90	89	63-136	1	30
Chrysene	N.D.	0.010	0.050	ug/l	93	96	72-132	3	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	65	63	37-142	3	30
Fluoranthene	N.D.	0.010	0.050	ug/l	102	104	76-121	2	30
Fluorene	N.D.	0.010	0.050	ug/l	96	98	71-124	3	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	75	74	45-136	2	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	80	84	65-122	5	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	77	80	59-124	4	30
Naphthalene	N.D.	0.030	0.060	ug/l	83	86	69-119	4	30
Phenanthrene	N.D.	0.030	0.060	ug/l	94	96	75-121	1	30
Pyrene	N.D.	0.010	0.050	ug/l	88	91	70-124	2	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.

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: ExxonMobil Group Number: 1548456
Reported: 04/01/2015 15:25

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: 15086WAA026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7821867	72	36	59
7821868	70	41	56
7821869	74	42	59
7821870	59	23*	52
Blank	106	105	82
LCS	96	98	80
LCSD	86	88	71
Limits:	56-134	26-158	52-127

Analysis Name: PAHs in waters by SIM
Batch number: 15090WAB026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7821866	78	49	63
Blank	102	108	81
LCS	101	108	79
LCSD	102	107	81
Limits:	56-134	26-158	52-127

*- 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

eurofins | Lancaster Laboratories Environmental

Acct. # 14739 For Eurofins Lancaster Laboratories Environmental use only Group # 1548456 Sample # 7821866-70

Instructions on reverse side correspond with circled numbers.

SCR#: _____

1 Client Information

Facility #/SID: Mayflower Pipeline Incident

Site Address: Mayflower, AR

ExxonMobil PM: Mike Sixsmith | Cost Center/AFE:

Consultant/Office: Arcadis

Consultant PM: Steve Barrick | Consultant Phone #:

Sampler: Zac Powers

4 Matrix

Soil ☐ Sediment ☐ Water: Ground ☐ Potable ☐ Surface ☒ NPDES ☐ Oil ☐ Air ☐

5 Analyses Requested

Preservation Code

Preservation Codes

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

6 Remarks

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	Total # of Containers	PAH 8270 SIM
WS-007(0.5-1.0)032515	3.25.15	1520	X		2	X
WS-009(surface)032515	3.25.15	1525	X		2	X
WS-001(0.5-1.0)032515	3.25.15	1535	X		2	X
WS-021(surface)032515	3.25.15	1540	X		2	X
WS-004(0.5-1.0)032515	3.25.15	1545	X		2	X

Z. Powers

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
Zac Powers	3/25/15	1700	UPS		

Relinquished by Commercial Carrier: UPS X FedEx ____ Other ____

Temperature Upon Receipt 5.7 °C

Received by: [signature] Date 3/26/15 Time 945

Custody Seals Intact? Yes No

9

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 63154

Group Number(s): 1548456

Client: ExxonMobil

Delivery and Receipt Information

Delivery Method:	UPS	Arrival Timestamp:	03/26/2015 9:45
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	AR		

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 Brandy Barclay (2299) at 13:07 on 03/26/2015

Samples Chilled Details

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	5.7	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

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
>	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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) 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.

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.