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

March 19, 2015

Project: Mayflower, AR Pipeline Incident

Submittal Date: 03/10/2015
Group Number: 1543855
SDG: PEO58
PO Number: 4410272923
Release Number: SIXSMITH
State of Sample Origin: AR

Client Sample Description	Lancaster Labs (LL) #
WS-007(0.5-1.0)030915 Grab Surface Water	7797348
WS-009(Surface)030915 Grab Surface Water	7797349
WS-021(Surface)030915 Grab Surface Water	7797350
WS-001(0.5-1.0)030915 Grab Surface Water	7797351
WS-004(0.5-1.0)030915 Grab Surface Water	7797352

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 COPY TO	ARCADIS	Attn: Sonal Patil
ELECTRONIC COPY TO	ARCADIS	Attn: Kim Abbott
ELECTRONIC COPY TO	ExxonMobil	Attn: Joe Abel

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LL Group #: 1543855

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: 7797348, 7797349, 7797350, 7797351, 7797352
The laboratory did not receive sufficient sample volume to perform the method QC requirement for MS/MSD or MS/DUP analysis.

Sample Description: WS-007(0.5-1.0)030915 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7797348
LL Group # 1543855
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 03/09/2015 11:05 by ZP

Submitted: 03/10/2015 09:30
Reported: 03/19/2015 10:49

ExxonMobil
PO Box 4592
Houston TX 77210-4592

00751 SDG#: PEO58-01

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	N.D.		0.011	0.053	1
08357	Benzo(b)fluoranthene	205-99-2	0.022	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	0.017	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	0.029	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	0.064	1
08357	Phenanthrene	85-01-8	N.D.		0.032	0.064	1
08357	Pyrene	129-00-0	0.022	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	15070WAF026	03/16/2015 16:55	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15070WAF026	03/11/2015 20:00	Nicholas W Shroyer	1

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

Sample Description: WS-009(Surface)030915 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7797349
LL Group # 1543855
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 03/09/2015 11:10 by ZP

Submitted: 03/10/2015 09:30
Reported: 03/19/2015 10:49

ExxonMobil
PO Box 4592
Houston TX 77210-4592

009SR SDG#: PEO58-02

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	0.054	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	0.012 J	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	0.065	1
08357	Phenanthrene	85-01-8	N.D.	0.032	0.065	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.

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	15070WAF026	03/16/2015 17:23	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15070WAF026	03/11/2015 20:00	Nicholas W Shroyer	1

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

Sample Description: WS-021(Surface)030915 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7797350
LL Group # 1543855
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 03/09/2015 11:25 by ZP

Submitted: 03/10/2015 09:30
Reported: 03/19/2015 10:49

ExxonMobil
PO Box 4592
Houston TX 77210-4592

021SR SDG#: PEO58-03

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	0.014	J	0.010	0.051	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.051	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.051	1
08357	Chrysene	218-01-9	0.012	J	0.010	0.051	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.051	1
08357	Fluoranthene	206-44-0	0.020	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.		0.030	0.061	1
08357	Phenanthrene	85-01-8	N.D.		0.030	0.061	1
08357	Pyrene	129-00-0	0.014	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.

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	15070WAF026	03/16/2015 17:51	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15070WAF026	03/11/2015 20:00	Nicholas W Shroyer	1

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

Sample Description: WS-001(0.5-1.0)030915 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7797351
LL Group # 1543855
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 03/09/2015 11:20 by ZP

Submitted: 03/10/2015 09:30
Reported: 03/19/2015 10:49

ExxonMobil
PO Box 4592
Houston TX 77210-4592

00105 SDG#: PEO58-04

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.	0.010	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	0.018 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	0.011 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	15070WAF026	03/16/2015 18:18	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15070WAF026	03/11/2015 20:00	Nicholas W Shroyer	1

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

Sample Description: WS-004(0.5-1.0)030915 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7797352
LL Group # 1543855
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 03/09/2015 11:30 by ZP

Submitted: 03/10/2015 09:30
Reported: 03/19/2015 10:49

ExxonMobil
PO Box 4592
Houston TX 77210-4592

00405 SDG#: PEO58-05

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	0.055	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	0.012	J	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	0.025	J	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	0.018	J	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	15070WAF026	03/16/2015 18:46	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15070WAF026	03/11/2015 20:00	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: 1543855
Reported: 03/19/2015 10:49

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: 15070WAF026	Sample number(s): 7797348-7797352								
Acenaphthene	N.D.	0.010	0.050	ug/l	82	83	76-139	2	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	87	88	67-120	1	30
Anthracene	N.D.	0.010	0.050	ug/l	92	92	72-128	0	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	90	88	71-127	1	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	81	83	64-132	4	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	90	95	71-139	5	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	67	76	49-140	14	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	76	82	63-136	7	30
Chrysene	N.D.	0.010	0.050	ug/l	81	82	72-132	2	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	48	58	37-142	18	30
Fluoranthene	N.D.	0.010	0.050	ug/l	90	89	76-121	2	30
Fluorene	N.D.	0.010	0.050	ug/l	89	90	71-124	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	61	70	45-136	14	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	75	76	65-122	1	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	72	72	59-124	1	30
Naphthalene	N.D.	0.030	0.060	ug/l	75	75	69-119	1	30
Phenanthrene	N.D.	0.030	0.060	ug/l	90	89	75-121	2	30
Pyrene	N.D.	0.010	0.050	ug/l	84	83	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: 15070WAF026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7797348	70	72	60
7797349	81	83	68
7797350	80	87	68
7797351	80	65	65
7797352	60	35	53
Blank	92	100	75
LCS	95	98	76
LCSD	97	103	76
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.

Quality Control Summary

Client Name: ExxonMobil Group Number: 1543855
Reported: 03/19/2015 10:49

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

eurofins | Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only
Acct. # 14739 Group # 1543855 Sample # 7797348-52
Instructions on reverse side correspond with circled numbers.

SCR#: 159734

(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 Barnick	Consultant Phone #:
Sampler: Zac Powers.	

(2) Sample Identification / (3) / (4) Matrix / (5) Analyses Requested

Matrix: Sediment ☐, Ground ☐, Surface ☒, Potable ☐, NPDES ☐, Air ☐, Soil ☐, Oil ☐

Preservation Code: (blank)

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Water	Oil	Total # of Containers	8270 PAHs SIM
WS-007(0.5-1.0)030915	03-09-15	1105	X			X			X
WS-009(surface)030915	03-09-15	1110	X			X			X
WS-091(surface)030915	03-09-15	® ~~1120~~ 1125	X			X			X
WS-001(0.5-1.0)030915	03-09-15	® ~~1125~~ 1120	X			X			X
WS-004(0.5-1.0)030915	03-09-15	1130	X			X			X

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

(6) Remarks

® collection times per labels + Zac Powers. KAK/885, 3/10/15

(7) Turnaround Time Requested (TAT) (please circle)
(Standard — circled) 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 ______

(9)

Relinquished by	Date	Time	Received by	Date	Time
Zac Powers	3/9/15	1300	UPS		
Relinquished by Commercial Carrier: UPS X FedEx ___ Other ___			[signature]	3.10.15	920

Temperature Upon Receipt 2.9 °C
Custody Seals Intact? (Yes — circled) No

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300
The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7053 0713

1543855

Katherine Klinefelter

From: Katherine Klinefelter
Sent: Tuesday, March 10, 2015 4:10 PM
To: 'Powers, Zachary'
Subject: RE: Mayflower COC and tracking - 1543855.

We will revise the request on the COC to PAHs 8270C SIM and also revise the collection times on the COC and entry to match the labels. Please update the yellow copy of the COC that you retained. Thanks.

From: Powers, Zachary [mailto:zpowers@craworld.com]
Sent: Tuesday, March 10, 2015 3:18 PM
To: Katherine Klinefelter
Subject: Re: Mayflower COC and tracking - 1543855.

Bottles are correct.

Thanks

Sent from my iPhone

On Mar 10, 2015, at 2:07 PM, "Katherine Klinefelter" <KatherineKlinefelter@eurofinsus.com> wrote:

> Collection time discrepancies were noted.
> For WS-021, COC lists 1120. The bottle labels list 1125.
> For WS-001, COC lists 1125. The bottle labels list 1120.
> Which times are correct?
>
> ---
>
> **From:** Powers, Zachary [mailto:zpowers@craworld.com]
> **Sent:** Monday, March 09, 2015 5:31 PM
> **To:** Katherine Klinefelter
> **Subject:** RE: Mayflower COC and tracking
>
> Yes. thank you
>
> Best,
>
> Zac Powers
> CRA Inc.
> 501.850.6610
> 501.224.1926
>
> ---
>
> **From:** Katherine Klinefelter [mailto:KatherineKlinefelter@eurofinsus.com]
> **Sent:** Monday, March 09, 2015 4:14 PM
> **To:** Powers, Zachary
> **Subject:** RE: Mayflower COC and tracking
>
> Hi Zac,
>
> COC is unclear. Are PAHs still to be run by 8270C SIM?

1543855

Thanks,
Kathy

From: Powers, Zachary [mailto:zpowers@craworld.com]
Sent: Monday, March 09, 2015 5:05 PM
To: Katherine Klinefelter; !US19_SA Env Entry
Cc: Patil, Sonal
Subject: Mayflower COC and tracking

Katherine,

See attached COC and tracking from this week's surface water sampling.

Sonal – I'll have your field notes and logs tomorrow.

Thanks,

Zac Powers
Conestoga-Rovers & Associates (CRA)
11719 Hinson Rd, Ste 100
Little Rock, AR 72212

Office: 501- 224-1926
Fax: 501-224-2313
Cell: 501-850-6610

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eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 59518

Group Number(s): 1543855

Client: Mayflower Pipeline

Delivery and Receipt Information

Delivery Method:	UPS	Arrival Timestamp:	03/10/2015 9:30
Number of Packages:	1	Number of Projects:	1

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	No
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 Timothy Cubberley (6520) at 10:24 on 03/10/2015

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	DT131	2.9	DT	Wet	Y	Bagged	N

Sample Date/Time Discrepancy Details

Sample ID on COC	Date/Time on Label	Comments
WS-021(Surface)030915	3/10/2015 11:25	Time on the CoC is marked at 11:20.
WS-001(0.5-1.0)030915	3/10/2015 11:20	Time on the CoC is marked at 11:25.

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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
>	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.