

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

February 13, 2015

Project: Mayflower, AR Pipeline Incident

Submittal Date: 02/04/2015

Group Number: 1535813

SDG: PEO53

PO Number: 4410272923

Release Number: SIXSMITH

State of Sample Origin: AR

Client Sample DescriptionWS-007(0.5-1.0)020315 Grab Surface Water
WS-009(Surface)020315 Grab Surface Water
WS-001(0.5-1.0)020315 Grab Surface Water
WS-021(Surface)020315 Grab Surface Water
WS-004(0.5-1.0)020315 Grab Surface WaterLancaster Labs (LL) #7760148
7760149
7760150
7760151
7760152

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 ARCADIS

COPY TO

Attn: Stephen Barrick

ELECTRONIC ARCADIS

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Attn: Lyndi Mott

ELECTRONIC ExxonMobil

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Attn: Michael J. Firth

ELECTRONIC ARCADIS

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Attn: Emily Leamer

ELECTRONIC ARCADIS

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Attn: Rhiannon Parmelee

ELECTRONIC ExxonMobil

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Attn: Michael L Sixsmith

ELECTRONIC ExxonMobil

COPY TO

Attn: Julie Foster

ELECTRONIC ARCADIS
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Attn: Sonal Patil

Attn: Kim Abbott

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Project Name: Mayflower, AR Pipeline Incident
LL Group #: 1535813

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: 7760148, 7760149, 7760150, 7760151, 7760152

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)020315 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7760148
LL Group # 1535813
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 02/03/2015 15:55 by ZP

ExxonMobil

PO Box 4592

Submitted: 02/04/2015 09:30

Houston TX 77210-4592

Reported: 02/13/2015 14:44

23007 SDG#: PEO53-01

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	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	N.D.	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	15035WAS026	02/13/2015 00:59	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15035WAS026	02/05/2015 02:30	Sherry L Morrow	1

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

Sample Description: WS-009(Surface)020315 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7760149
LL Group # 1535813
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 02/03/2015 16:00 by ZP

ExxonMobil

PO Box 4592

Submitted: 02/04/2015 09:30

Houston TX 77210-4592

Reported: 02/13/2015 14:44

23009 SDG#: PEO53-02

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	N.D.	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	15035WAS026	02/13/2015 01:27	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15035WAS026	02/05/2015 02:30	Sherry L Morrow	1

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

Sample Description: WS-001(0.5-1.0)020315 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7760150
LL Group # 1535813
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 02/03/2015 16:10 by ZP

ExxonMobil

PO Box 4592

Submitted: 02/04/2015 09:30

Houston TX 77210-4592

Reported: 02/13/2015 14:44

23001 SDG#: PEO53-03

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	0.050	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	N.D.	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	15035WAS026	02/13/2015 01:55	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15035WAS026	02/05/2015 02:30	Sherry L Morrow	1

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

Sample Description: WS-021(Surface)020315 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7760151
LL Group # 1535813
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 02/03/2015 16:15 by ZP

ExxonMobil

PO Box 4592

Submitted: 02/04/2015 09:30

Houston TX 77210-4592

Reported: 02/13/2015 14:44

23021 SDG#: PEO53-04

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	N.D.	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	15035WAS026	02/13/2015 02:22	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15035WAS026	02/05/2015 02:30	Sherry L Morrow	1

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

Sample Description: WS-004(0.5-1.0)020315 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7760152
LL Group # 1535813
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 02/03/2015 16:20 by ZP

ExxonMobil

PO Box 4592

Submitted: 02/04/2015 09:30

Houston TX 77210-4592

Reported: 02/13/2015 14:44

23004 SDG#: PEO53-05

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	0.050	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	N.D.	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	15035WAS026	02/13/2015 02:50	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15035WAS026	02/05/2015 02:30	Sherry L Morrow	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 02/13/15 at 02:44 PM

Group Number: 1535813

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: 15035WAS026	Sample number(s): 7760148-7760152								
Acenaphthene	N.D.	0.010	0.050	ug/l	94	93	76-139	1	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	99	97	67-120	2	30
Anthracene	N.D.	0.010	0.050	ug/l	104	104	72-128	0	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	101	101	71-127	0	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	107	104	64-132	2	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	104	105	71-139	1	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	101	99	49-140	2	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	105	104	63-136	2	30
Chrysene	N.D.	0.010	0.050	ug/l	103	101	72-132	2	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	98	91	37-142	7	30
Fluoranthene	N.D.	0.010	0.050	ug/l	101	102	76-121	0	30
Fluorene	N.D.	0.010	0.050	ug/l	98	97	71-124	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	100	97	45-136	4	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	86	83	65-122	4	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	82	81	59-124	1	30
Naphthalene	N.D.	0.030	0.060	ug/l	92	87	69-119	5	30
Phenanthrene	N.D.	0.030	0.060	ug/l	98	97	75-121	1	30
Pyrene	N.D.	0.010	0.050	ug/l	94	93	70-124	1	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: 15035WAS026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7760148	72	40	66
7760149	99	88	81
7760150	101	97	80
7760151	98	99	78
7760152	104	98	78
Blank	104	120	92
LCS	103	120	90
LCSD	103	118	89
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
Reported: 02/13/15 at 02:44 PM

Group Number: 1535813

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

Acct. # 14739

For Eurofins Lancaster Laboratories Environmental use only

Group # 1535813

Sample # 7760148-52

Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix		5 Analyses Requested										6 Remarks						
Facility #/SID <u>Mayflower Apache Incident</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil <input type="checkbox"/> Water		Preservation Code										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other						
Site Address <u>Mayflower AR</u>						0260-P4H ₂ SIM 8270 KAK/835, 2/4/15																
ExxonMobil PM <u>Mike Sixsmith</u>		Cost Center/AFE																				
Consultant/Office <u>Arcadia</u>																						
Consultant PM <u>Steve Barrick</u>		Consultant Phone #																				
Sampler <u>Zac Powers</u>				3 Grab <input type="checkbox"/> Composite <input type="checkbox"/>																		
2 Sample Identification		Collected																				
		Date	Time	Grab	Composite	Soil	Water	Oil	Total # of Containers													
<u>WS-007(0.5-1.0)020315</u>		<u>2.3.15</u>	<u>1555</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>													
<u>WS-009(Surface)020315</u>		<u>2.3.15</u>	<u>1600</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>													
<u>WS-001(0.5-1.0)020315</u>		<u>2.3.15</u>	<u>1610</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>													
<u>WS-021(Surface)020315</u>		<u>2.3.15</u>	<u>1615</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>													
<u>WS-004(0.5-1.0)020315</u>		<u>2.3.15</u>	<u>1620</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>													
<u>Z. Powers</u>																						
7 Turnaround Time Requested (TAT) (please circle)				Relinquished by <u>[Signature]</u>		Date <u>1-5-15</u>	Time <u>1350</u>	Received by <u>Z. Powers</u>		Date <u>2/3/15</u>	Time <u>0900</u>	9										
Standard <input checked="" type="radio"/> 5 day 4 day 72 hour 48 hour 24 hour				Relinquished by <u>[Signature]</u>		Date <u>2/3/15</u>	Time <u>1700</u>	Received by <u>VPS</u>		Date	Time											
				Relinquished by		Date	Time	Received by		Date	Time											
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 Commercial Carrier		Received by		Date	Time											
						UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		<u>[Signature]</u>		Date <u>2.4.15</u>	Time <u>930</u>											
				Temperature Upon Receipt		<u>0.2</u> °C		Custody Seals Intact?		<input checked="" type="radio"/> Yes <input type="radio"/> No												

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

Client: ExxonMobil

Delivery and Receipt Information

Delivery Method:	<u>UPS</u>	Arrival Timestamp:	<u>02/04/2015 9:30</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</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 \geq 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 12:00 on 02/04/2015

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	0.2	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		
>	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 \geq 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.

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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