

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

December 17, 2014

Project: Mayflower, AR Pipeline Incident

Submittal Date: 12/06/2014
Group Number: 1523585
SDG: PEO43
PO Number: 4410263810
Release Number: SIXSMITH
State of Sample Origin: AR

Client Sample Description

WS-007(0.5-1.0)120514 Grab Surface Water
WS-009(Surface)120514 Grab Surface Water
WS-001(0.5-1.0)120514 Grab Surface Water
WS-021(Surface)120514 Grab Surface Water
WS-004(0.5-1.0)120514 Grab Surface Water

Lancaster Labs (LL)

7700928
7700929
7700930
7700931
7700932

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 #: 1523585

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: 7700928, 7700929, 7700930, 7700931, 7700932

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)120514 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7700928
LL Group # 1523585
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/05/2014 08:10 by ZP ExxonMobil
PO Box 4592
Submitted: 12/06/2014 08:45 Houston TX 77210-4592
Reported: 12/17/2014 16:23

P4301 SDG#: PEO43-01

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	0.051	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	14342WAK026	12/11/2014 03:29	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14342WAK026	12/09/2014 10:00	Jessica M Velez	1

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

Sample Description: WS-009(Surface)120514 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7700929
LL Group # 1523585
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/05/2014 08:15 by ZP ExxonMobil
PO Box 4592
Submitted: 12/06/2014 08:45 Houston TX 77210-4592
Reported: 12/17/2014 16:23

P4302 SDG#: PEO43-02

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	0.051	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	14342WAK026	12/11/2014 03:57	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14342WAK026	12/09/2014 10:00	Jessica M Velez	1

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

Sample Description: WS-001(0.5-1.0)120514 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7700930
LL Group # 1523585
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/05/2014 08:25 by ZP ExxonMobil
PO Box 4592
Submitted: 12/06/2014 08:45 Houston TX 77210-4592
Reported: 12/17/2014 16:23

P4303 SDG#: PEO43-03

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	0.051	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	14342WAK026	12/11/2014 04:52	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14342WAK026	12/09/2014 10:00	Jessica M Velez	1

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

Sample Description: WS-021(Surface)120514 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7700931
LL Group # 1523585
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/05/2014 08:30 by ZP ExxonMobil
PO Box 4592
Submitted: 12/06/2014 08:45 Houston TX 77210-4592
Reported: 12/17/2014 16:23

P4304 SDG#: PEO43-04

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	0.052	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	0.012 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	N.D.	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	14342WAK026	12/11/2014 05:20	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14342WAK026	12/09/2014 10:00	Jessica M Velez	1

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

Sample Description: WS-004(0.5-1.0)120514 Grab Surface Water
S20135565 Mayflower, AR
Pipeline Incident

LL Sample # WW 7700932
LL Group # 1523585
Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 12/05/2014 08:35 by ZP ExxonMobil
PO Box 4592
Submitted: 12/06/2014 08:45 Houston TX 77210-4592
Reported: 12/17/2014 16:23

P4305 SDG#: PEO43-05

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	14342WAK026	12/11/2014 05:48	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14342WAK026	12/09/2014 10:00	Jessica M Velez	1

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

Quality Control Summary

Client Name: ExxonMobil
Reported: 12/17/14 at 04:23 PM

Group Number: 1523585

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: 14342WAK026	Sample number(s): 7700928-7700932								
Acenaphthene	N.D.	0.010	0.050	ug/l	123	123	82-126	0	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	98	96	72-124	3	30
Anthracene	N.D.	0.010	0.050	ug/l	110	110	83-125	0	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	111	107	79-122	4	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	102	101	72-126	1	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	112	113	79-136	1	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	97	94	59-137	3	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	103	99	72-129	3	30
Chrysene	N.D.	0.010	0.050	ug/l	106	106	77-122	0	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	86	90	42-143	4	30
Fluoranthene	N.D.	0.010	0.050	ug/l	112	113	76-121	2	30
Fluorene	N.D.	0.010	0.050	ug/l	98	97	82-119	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	90	90	53-136	1	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	98	99	75-117	1	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	96	97	68-124	1	30
Naphthalene	N.D.	0.030	0.060	ug/l	97	96	78-117	2	30
Phenanthrene	N.D.	0.030	0.060	ug/l	103	102	83-116	1	30
Pyrene	N.D.	0.010	0.050	ug/l	107	102	70-124	4	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: 14342WAK026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7700928	107	77	96
7700929	113	88	97
7700930	106	74	94
7700931	113	80	97
7700932	108	78	91
Blank	118	118	103
LCS	114	110	100
LCSD	115	109	100
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: 12/17/14 at 04:23 PM

Group Number: 1523585

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 # 1523585 Sample # 7700928-32
 Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analyses Requested					SCR#: <u>159758</u>																																												
Facility #/SID <u>Mayflower Pipeline Incident</u>			Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/>	Ground <input type="checkbox"/> Surface <input checked="" type="checkbox"/>	Air <input type="checkbox"/>	Preservation Code					Total # of Containers <u>PAH 0270 SIM</u>	6 Preservation Codes																																											
Site Address <u>Mayflower AR</u>						H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		<table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																													7 Remarks		
ExxonMobil PM <u>Mike Sixsmith</u>		Cost Center/AFE		<table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																			(6)																
Consultant/Office <u>Arcaadis</u>			Consultant Phone #		(3)					(9)																																													
Consultant PM <u>Steve Bruck</u>		Consultant Phone #		(2)								(8)																																											
Sampler <u>Zac Powers</u>			Composite						(1)					(4)																																									
2 Sample Identification			Collected		(5)											(7)																																							
		Date	Time	Grab						Composite	(6)							(8)																																					
<u>WS-007(0.5-1.0)120514</u>		<u>12.5.14</u>	<u>0810</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(5)										(9)																																							
<u>WS-009(Surface)120514</u>		<u>12.5.14</u>	<u>0815</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						(5)							(9)																																					
<u>WS-001(0.5-1.0)120514</u>		<u>12.5.14</u>	<u>0825</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(5)										(9)																																							
<u>WS-021(Surface)120514</u>		<u>12.5.14</u>	<u>0830</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						(5)							(9)																																					
<u>WS-004(0.5-1.0)120514</u>		<u>12.5.14</u>	<u>0835</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(5)										(9)																																							
(7) Turnaround Time Requested (TAT) (please circle)			Relinquished by <u>Zac Powers</u>		Date <u>11-25-14</u>						Time <u>0845</u>		Received by <u>Zac Powers</u>		Date <u>12/5/14</u>			Time <u>0700</u>																																					
							Standard 5 day 4 day		Relinquished by <u>Zac Powers</u>								Date <u>11/25/14</u>			Time <u>1400</u>		Received by <u>UPS</u>		Date 		Time 																													
																												72 hour 48 hour 24 hour		Relinquished by 		Date 		Time 		Received by 		Date 		Time 															
(8) Data Package (circle if required)			Relinquished by Commercial Carrier UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		Temperature Upon Receipt <u>0.4</u> °C		Received by <u>[Signature]</u>		Date <u>12.6.14</u>		Time <u>845</u>		Custody Seals Intact? <input checked="" type="checkbox"/> Yes No																																										
															(8) Data Package (circle if required) Type I - Full Type VI (Raw Data) NJ Reduced Other _____			EDD (circle if required) Locus EIM (default) Other _____		Temperature Upon Receipt <u>0.4</u> °C		Received by <u>[Signature]</u>		Date <u>12.6.14</u>		Time <u>845</u>		Custody Seals Intact? <input checked="" type="checkbox"/> Yes No																											

Client: ExxonMobil

Delivery and Receipt Information

Delivery Method:	<u>UPS</u>	Arrival Timestamp:	<u>12/06/2014 8:45</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 12:30 on 12/06/2014

Samples Chilled Details

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

<u>Cooler #</u>	<u>Thermometer ID</u>	<u>Corrected Temp</u>	<u>Therm. Type</u>	<u>Ice Type</u>	<u>Ice Present?</u>	<u>Ice Container</u>	<u>Elevated Temp?</u>
1	DT131	0.4	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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