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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

June 04, 2014

Project: Mayflower, AR Pipeline Incident

Submittal Date: 05/23/2014 Group Number: 1476677 SDG: PEO01 PO Number: 4410181435 Release Number: SIXSMITH State of Sample Origin: AR

Client Sample Description WS-007(0.5-1.0)052214 Grab Surface Water WS-009(Surface)052214 Grab Surface Water WS-001(0.5-1.0)052214 Grab Surface Water WS-021(Surface)052214 Grab Surface Water WS-004(0.5-1.0)052214 Grab Surface Water Lancaster Labs (LL) # 7474865 7474866 7474867 7474868 7474869

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

ELECTRONIC COPY TO	ARCADIS	Attn: Stephen Barrick
ELECTRONIC	ARCADIS	Attn: Lyndi Mott
COPY TO ELECTRONIC	ExxonMobil	Attn: Michael J. Firth
COPY TO ELECTRONIC	ARCADIS	Attn: Emily Leamer
СОРҮ ТО		,
ELECTRONIC COPY TO	ARCADIS	Attn: Rhiannon Parmalee
ELECTRONIC COPY TO	ExxonMobil	Attn: Michael L Sixsmith
ELECTRONIC	ExxonMobil	Attn: Julie Foster
COPY TO ELECTRONIC COPY TO	ARCADIS	Attn: Kim Abbott





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Respectfully Submitted,

Katherine a. Klinefelter

Katherine A. Klinefelter Principal Specialist

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🔅 eurofins

Lancaster Laboratories Environmental

Project Name: Mayflower, AR Pipeline Incident LLI Group #: 1476677

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: 7474865, 7474866, 7474869

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 #: 14144WAJ026 (Sample number(s): 7474865-7474869)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD exceeded the acceptance window indicating a positive bias: Acenaphthene, Chrysene, Benzo(a)pyrene

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) 7474865, 7474866, 7474869



Analysis Report

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Sample Description: WS-007(0.5-1.0)052214 Grab Surface Water S20135565 Mayflower, AR Pipeline Incident

LL Sample # WW 7474865 LL Group # 1476677 Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/22/2014 12:30 by LMH

ExxonMobil PO Box 4592 Houston TX 77210-4592

Submitted: 05/23/2014 09:20 Reported: 06/04/2014 14:27

WS007 SDG#: PEO01-01

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	0.011 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	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	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1
The	recovery for the sample surrog	gate(s) is outside	the QC			
acce	ptance 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	14144WAJ026	05/28/2014 08:49	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14144WAJ026	05/27/2014 02:30	Sherry L Morrow	1

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



Analysis Report

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Sample Description: WS-009(Surface)052214 Grab Surface Water S20135565 Mayflower, AR Pipeline Incident

LL Sample # WW 7474866 LL Group # 1476677 Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/22/2014 12:40 by LMH

ExxonMobil PO Box 4592 Houston TX 77210-4592

Submitted: 05/23/2014 09:20 Reported: 06/04/2014 14:27

WS009 SDG#: PEO01-02

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	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1
The	recovery for the sample surrog	gate(s) is outside	the QC			
acce	ptance 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	14144WAJ026	05/28/2014 09:19	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14144WAJ026	05/27/2014 02:30	Sherry L Morrow	1

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



Analysis Report

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Sample Description: WS-001(0.5-1.0)052214 Grab Surface Water S20135565 Mayflower, AR Pipeline Incident

LL Sample # WW 7474867 LL Group # 1476677 Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/22/2014 12:50 by LMH

ExxonMobil PO Box 4592 Houston TX 77210-4592

Submitted: 05/23/2014 09:20 Reported: 06/04/2014 14:27

WS001 SDG#: PE001-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles SW-846	8270C SIM	ug/l	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	0.052	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	0.052	1
08357	Anthracene	120-12-7	N.D.	0.010	0.052	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	0.052	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	0.052	1
08357	Benzo(b)fluoranthene	205-99-2	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	N.D.	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	0.052	1
08357	Phenanthrene	85-01-8	N.D.	0.031	0.052	1
08357	Pyrene	129-00-0	N.D.	0.010	0.052	1

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 Analy	vsis	Record
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CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	14144WAJ026	05/28/2014	09:48	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14144WAJ026	05/27/2014	02:30	Sherry L Morrow	1



Analysis Report

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Sample Description: WS-021(Surface)052214 Grab Surface Water LL S20135565 Mayflower, AR LL Pipeline Incident Ac

LL Sample # WW 7474868 LL Group # 1476677 Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/22/2014 13:00 by LMH

ExxonMobil PO Box 4592 Houston TX 77210-4592

Submitted: 05/23/2014 09:20 Reported: 06/04/2014 14:27

WS021 SDG#: PE001-04

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	0.051	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	0.012 J	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	0.011 J	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	0.051	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.051	1
08357	Pyrene	129-00-0	N.D.	0.010	0.051	1

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
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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	14144WAJ026	05/28/2014 10:18	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14144WAJ026	05/27/2014 02:30	Sherry L Morrow	1



Analysis Report

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Sample Description: WS-004(0.5-1.0)052214 Grab Surface Water S20135565 Mayflower, AR Pipeline Incident

LL Sample # WW 7474869 LL Group # 1476677 Account # 14739

Project Name: Mayflower, AR Pipeline Incident

Collected: 05/22/2014 13:10 by LMH

ExxonMobil PO Box 4592 Houston TX 77210-4592

Submitted: 05/23/2014 09:20 Reported: 06/04/2014 14:27

WS004 SDG#: PEO01-05*

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	0.050	1
08357	Phenanthrene	85-01-8	N.D.	0.030	0.050	1
08357	Pyrene	129-00-0	N.D.	0.010	0.050	1
The	recovery for the sample surrog	gate(s) is outside	the QC			
acce	ptance 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	14144WAJ026	05/28/2014 10:48	Brian K Graham	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	14144WAJ026	05/27/2014 02:30	Sherry L Morrow	1



Analysis Report

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Quality Control Summary

Client Name: ExxonMobil Reported: 06/04/14 at 02:27 PM Group Number: 1476677

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 <u>Result</u>	Blank MDL**	Blank <u>LOQ</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 14144WAJ026	Sample num	uber(s): 7	474865-74	74869					
Acenaphthene	N.D.	0.010	0.050	uq/l	118	120*	83-119	2	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	105	108	81-130	2	30
Anthracene	N.D.	0.010	0.050	ug/l	105	108	83-125	3	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	109	111	79-122	2	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	115	122*	80-121	6	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	127	134	79-136	6	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	101	109	72-132	8	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	uq/l	115	123	81-131	7	30
Chrysene	N.D.	0.010	0.050	ug/l	113	119*	84-118	5	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	86	96	66-133	11	30
Fluoranthene	N.D.	0.010	0.050	ug/l	114	118	84-124	3	30
Fluorene	N.D.	0.010	0.050	ug/l	111	112	82-119	1	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	94	103	68-132	10	30
1-Methylnaphthalene	N.D.	0.010	0.050	ug/l	108	110	86-130	2	30
2-Methylnaphthalene	N.D.	0.010	0.050	ug/l	104	108	81-131	3	30
Naphthalene	N.D.	0.030	0.050	ug/l	109	112	82-122	3	30
Phenanthrene	N.D.	0.030	0.050	ug/l	107	110	83-116	3	30
Pyrene	N.D.	0.010	0.050	ug/l	92	95	78-125	3	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.

	Name: PAHs in w mber: 14144WAJ02		
Daten nu	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene- d10
7474865	82	33*	82
7474866	88	45*	91
7474867	113	95	104
7474868	108	79	104
7474869	102	56*	102
Blank	118	131	107
LCS	128	138	115
LCSD	126	141	115

*- 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.



Analysis Report

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Quality Control Summary

70-134

Client Name: ExxonMobil Reported: 06/04/14 at 02:27 PM Group Number: 1476677

Surrogate Quality Control

Limits: 59-128

62-141

*- 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.

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Other			j.		ہ و ، و ار			1									-, cc			(```)		

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client. Page 11 of 13

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Sample Administration **Receipt Documentation Log**

Doc Log ID:

15434

Group Number(s):

1476677

Client: EXXONMOBIL

MAYFLOWER PIPELINE

Delivery and Receipt Information										
Delivery Method:	UPS		Arrival Timestamp:	05/23/2014	9:20					
Number of Packages:	<u>1</u>		Number of Projects:	<u>1</u>						
State/Province of Origin:	<u>AR</u>									
Arrival Condition Summary										
Shipping Container Sealed:		<u>Yes</u>	Total Trip Blank Qty:		<u>0</u>					
Custody Seal Present:		<u>Yes</u>	Trip Blank Type:		<u>N/A</u>					
Custody Seal Intact:		<u>Yes</u>	Air Quality Samples Pre	sent:	<u>No</u>					
Samples Chilled:		<u>Yes</u>	Air Quality Flow Controll	ers Present:	<u>N/A</u>					
Paperwork Enclosed:		<u>Yes</u>	Flow Controller Quantity	:	<u>0</u>					
Samples Intact:		<u>Yes</u>	Air Quality Returns:		<u>N/A</u>					
Missing Samples:		<u>No</u>								
Extra Samples:		<u>No</u>								
Discrepancy in Container Qty	y on COC:	<u>No</u>								
Sample IDs on COC match (Containers:	<u>Yes</u>								
Sample Date/Times match C	OC:	<u>Yes</u>								
VOA Vial Headspace \geq 6mm	i.	<u>N/A</u>								
VOA IDs (\geq 6mm):		<u>N/A</u>								
VOA IDs (≥6mm):		<u>N/A</u>								

Unpacked by Corey Eshleman (3647) at 11:12 on 05/23/2014

Samples Chilled Details: MAYFLOWER PIPELINE

The	ermometer Type:	s: DT = Dig	DT = Digital (Temp. Bottle) IR = Infrared (Surface Te					ıres in °C.
							Samples	
Cooler #	Thermometer ID	Corrected Temp	Therm. Type	<u>Ice Type</u>	Ice Present?	Ice Container	<u>Collected Same</u> Day as Receipt?	Elevated Temp?
1	DT121	0.9	DT	Wet	Y	Bagged	N	Ν

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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)
С	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)	Ĺ	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

- < less than The number following the sign is the <u>limit of quantitation</u>, 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 ≥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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