Maxxam
A Bureau Veritas Group Company

Attention: Amanda Styes

MARATHON PETROLEUM
1001 South Oakwood Drive
Detroit, MI
USA 48217

Report Date: 02/06/2019
Report #: R5584760
Version: 1 - Final

ANALYTICAL REPORT

MAXXAM JOB #: B931176
Received: 02/05/2019, 00:00

Sample Matrix: Passive Monitor
Samples Received: 7

Analyses	Quantity	Date Analyzed	Laboratory Method	Reference
BTEX / THCs by NIOSH, GC-FID - 3520M	7	02/06/2019	NOV SOP-00005	N1501/N1550
Volatiles (VOC) - List 1-GC/FID-3M3520	7	02/06/2019	NOV SOP-00005	NOV SOP-00005

This report shall not be reproduced except in full, without the written approval of the laboratory.
Results relate only to the items tested.
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Wendy Lesniak
CS
06 Feb 2019 15:27:36

Please direct all questions regarding this Analytical Report to your Project Manager.
Wendy Lesniak, CS
Email: WLesniak@maxxamlabs.com
Phone# (248) 344-1770
==========
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports.

Total Cover Pages : 1

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Maxxam Job #: B931176
Report Date: 02/06/2019

MARATHON PETROLEUM

ANALYTICAL RESULTS

Client ID:	MRD190010A	Matrix:	Passive Monitor
Maxxam ID:	IXK893	Sample Media:	3M 3520 Monitor, 2 Charcoal
Date Sampled:	02/04/2019	Sampling Time (Minutes):	621

ANALYTE	Samp Rate cc/min	Mass ug	Concentration mg/m3	Concentration ppm	RL ug	Test Method	Date Analyzed
Benzene	35.5	<1.0	<0.045	<0.014	1.0	N1501/N1550	02/06/2019
Hexane	32.0	<2.0	<0.10	<0.029	2.0	NOV SOP-00005	02/06/2019
Toluene	31.4	<3.0	<0.15	<0.041	3.0	N1501/N1550	02/06/2019
Xylenes	27.3	<6.0	<0.35	<0.082	6.0	N1501/N1550	02/06/2019
THCs as n-Hexane	32.0	<30	<1.5	<0.43	30	N1501/N1550	02/06/2019

RL = Reporting Limit

Client ID:	MRD190011A	Matrix:	Passive Monitor
Maxxam ID:	IXK894	Sample Media:	3M 3520 Monitor, 2 Charcoal
Date Sampled:	02/04/2019	Sampling Time (Minutes):	618

ANALYTE	Samp Rate cc/min	Mass ug	Concentration mg/m3	Concentration ppm	RL ug	Test Method	Date Analyzed
Benzene	35.5	<1.0	<0.046	<0.014	1.0	N1501/N1550	02/06/2019
Hexane	32.0	<2.0	<0.10	<0.029	2.0	NOV SOP-00005	02/06/2019
Toluene	31.4	<3.0	<0.15	<0.041	3.0	N1501/N1550	02/06/2019
Xylenes	27.3	<6.0	<0.36	<0.082	6.0	N1501/N1550	02/06/2019
THCs as n-Hexane	32.0	<30	<1.5	<0.43	30	N1501/N1550	02/06/2019

RL = Reporting Limit

Client ID:	MRD190012A	Matrix:	Passive Monitor
Maxxam ID:	IXK895	Sample Media:	3M 3520 Monitor, 2 Charcoal
Date Sampled:	02/04/2019	Sampling Time (Minutes):	588

ANALYTE	Samp Rate cc/min	Mass ug	Concentration mg/m3	Concentration ppm	RL ug	Test Method	Date Analyzed
Benzene	35.5	<1.0	<0.048	<0.015	1.0	N1501/N1550	02/06/2019
Hexane	32.0	<2.0	<0.11	<0.030	2.0	NOV SOP-00005	02/06/2019
Toluene	31.4	<3.0	<0.16	<0.043	3.0	N1501/N1550	02/06/2019
Xylenes	27.3	<6.0	<0.37	<0.086	6.0	N1501/N1550	02/06/2019
THCs as n-Hexane	32.0	<30	<1.6	<0.45	30	N1501/N1550	02/06/2019

RL = Reporting Limit

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Maxxam Job #: B931176
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MARATHON PETROLEUM

ANALYTICAL RESULTS

Client ID:	MRD190013A	Matrix:	Passive Monitor
Maxxam ID:	IXK896	Sample Media:	3M 3520 Monitor, 2 Charcoal
Date Sampled:	02/04/2019	Sampling Time (Minutes):	592

ANALYTE	Samp Rate cc/min	Mass ug	Concentration mg/m3	Concentration ppm	RL ug	Test Method	Date Analyzed
Benzene	35.5	<1.0	<0.048	<0.015	1.0	N1501/N1550	02/06/2019
Hexane	32.0	<2.0	<0.11	<0.030	2.0	NOV SOP-00005	02/06/2019
Toluene	31.4	<3.0	<0.16	<0.043	3.0	N1501/N1550	02/06/2019
Xylenes	27.3	<6.0	<0.37	<0.085	6.0	N1501/N1550	02/06/2019
THCs as n-Hexane	32.0	<30	<1.6	<0.45	30	N1501/N1550	02/06/2019

RL = Reporting Limit

Client ID:	MRD190014A	Matrix:	Passive Monitor
Maxxam ID:	IXK897	Sample Media:	3M 3520 Monitor, 2 Charcoal
Date Sampled:	02/04/2019	Sampling Time (Minutes):	814

ANALYTE	Samp Rate cc/min	Mass ug	Concentration mg/m3	Concentration ppm	RL ug	Test Method	Date Analyzed
Benzene	35.5	<1.0	<0.035	<0.011	1.0	N1501/N1550	02/06/2019
Hexane	32.0	<2.0	<0.077	<0.022	2.0	NOV SOP-00005	02/06/2019
Toluene	31.4	<3.0	<0.12	<0.031	3.0	N1501/N1550	02/06/2019
Xylenes	27.3	<6.0	<0.27	<0.062	6.0	N1501/N1550	02/06/2019
THCs as n-Hexane	32.0	<30	<1.2	<0.33	30	N1501/N1550	02/06/2019

RL = Reporting Limit

Client ID:	MRD190015A	Matrix:	Passive Monitor
Maxxam ID:	IXK898	Sample Media:	3M 3520 Monitor, 2 Charcoal
Date Sampled:	02/04/2019	Sampling Time (Minutes):	818

ANALYTE	Samp Rate cc/min	Mass ug	Concentration mg/m3	Concentration ppm	RL ug	Test Method	Date Analyzed
Benzene	35.5	<1.0	<0.034	<0.011	1.0	N1501/N1550	02/06/2019
Hexane	32.0	<2.0	<0.076	<0.022	2.0	NOV SOP-00005	02/06/2019
Toluene	31.4	<3.0	<0.12	<0.031	3.0	N1501/N1550	02/06/2019
Xylenes	27.3	<6.0	<0.27	<0.062	6.0	N1501/N1550	02/06/2019
THCs as n-Hexane	32.0	<30	<1.1	<0.33	30	N1501/N1550	02/06/2019

RL = Reporting Limit

Maxxam Job #: B931176
Report Date: 02/06/2019

MARATHON PETROLEUM

ANALYTICAL RESULTS

Client ID:	MRD190016BLANK	Matrix:	Passive Monitor
Maxxam ID:	IXK899	Sample Media:	3M 3520 Monitor, 2 Charcoal
Date Sampled:	02/04/2019		

ANALYTE	Samp Rate cc/min	Mass ug	Concentration mg/m3	Concentration ppm	RL ug	Test Method	Date Analyzed
Benzene	35.5	<1.0	N/A	N/A	1.0	N1501/N1550	02/06/2019
Hexane	32.0	<2.0	N/A	N/A	2.0	NOV SOP-00005	02/06/2019
Toluene	31.4	<3.0	N/A	N/A	3.0	N1501/N1550	02/06/2019
Xylenes	27.3	<6.0	N/A	N/A	6.0	N1501/N1550	02/06/2019
THCs as n-Hexane	32.0	<30	N/A	N/A	30	N1501/N1550	02/06/2019

RL = Reporting Limit

GENERAL COMMENTS

Unless otherwise noted below the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and /or do not adversely affect the reported results and 3) the industrial hygiene results have not been blank corrected.

Results relate only to the items tested.

Maxxam

Bureau Veritas North America, Inc.

REQUEST FOR LABORATORY ANALYTICAL SERVICES

IMPORTANT: Date Results Required: ASAP

Rush Charges Authorized? Yes [X] No [ ]

Fax [ ] or E-mail results [X]

E-mail Address: amstyes@marathonpetroleum.com

Page: _____

For Lab Use Only

Lab Project No. B931176

REPORT RESULTS TO: **Client Project No.:** _____

Name: Amanda Styes

Company: Marathon Petroleum

Mailing Address: 1001 S. Oakwood Dr

City, State, Zip: Detroit, MI 48217

Telephone No.: 313-297-6041 Fax No.: _____

SEND INVOICE TO: **P.O. #** _____

Name: _____

Company: _____

Address: _____

City, State, Zip: _____

Email for Invoice: _____

Special instructions and/or specific regulatory requirements (method, limit of detection, etc.):

If samples are water or soil - Collected from which state/province?

Client Sample Identification	Date Sampled	Time Sampled (min)	Matrix/ Media	Air Volume (specify units)	ANALYSIS REQUESTED (List each analyte on the lines below, multiple analytes per line)
MRD190010A	2/4/19	621	3M 3520		C6BTX
MRD190011A	2/4/19	618	3M 3520		C6BTX
MRD190012A	2/4/19	588	3M 3520		C6BTX
MRD190013A	2/4/19	592	3M 3520		C6BTX
MRD190014A	2/4/19	814	3M 3520		C6BTX
MRD190015A	2/4/19	818	3M 3520		C6BTX
MRD190016Blank	2/4/19	0	3M 3520		C6BTX

Collected by: AMStyes *Date/Time* 2/4/2019 *Collector's Signature:* AMStyes *Date/Time* ~~2/3/2019~~ 2/5/19

Relinquished by: AMStyes *Date/Time* 2/5/19 *Received by:* _____ *Date/Time* _____

Relinquished by: _____ *Date/Time* _____ *Received by:* MS *Date/Time* 2/5/19 205

Method of Shipment: _____ *Sample Condition on Receipt:* _____

Authorized by: _____ *Acceptable* ✓ *Other:* _____

(Signature MUST accompany request!) *(Explain)*

Ship to:

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22345 Roethel Drive
Novi, MI 48375
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Kennesaw, GA 30144
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Windsor, ON N8X 1Z1

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June 2017