

TABLE 1
WASTE MANAGEMENT PAD 2Q-HZ
SOIL ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH ⁽²⁾ (mg/kg)
SS01@6"	6/17/2014	0.5	0.0	<0.0020	<0.0050	<0.0050	<0.0050	<50
SS02@6"	6/17/2014	0.5	27.0	<0.0020	<0.0050	<0.0050	<0.0050	4.4
SS03@6"	6/17/2014	0.5	3.3	<0.0020	<0.0050	<0.0050	<0.0050	<50
COGCC standards for Soil (mg/kg) ⁽¹⁾				0.17	85	100	175	500

Notes:

1). Standards for soil are taken from 2 CCR 404-1, Table 910-1, effective February 1, 2014.

2). TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

GRO - Gasoline range organics.

DRO - Diesel range organics.

mg/kg - Milligrams per kilogram.

bgs - Below ground surface.

ppm - Parts per million

Bold red values indicate an exceedance of the COGCC soil standards for the Site.

ATTACHMENT A

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 19, 2014

Brandon Bruns

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Waste Management 2Q-HZ

Enclosed are the results of analyses for samples received by Summit Scientific on 06/17/14 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS' or 'Shrewsbury', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury

President / Laboratory Manager



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Waste Management 2Q-HZ
Project Number: [none]
Project Manager: Brandon Bruns

Reported:
06/19/14 13:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@6"	1406118-01	Soil	06/17/14 12:30	06/17/14 17:00
SS02@6"	1406118-02	Soil	06/17/14 12:35	06/17/14 17:00
SS03@6"	1406118-03	Soil	06/17/14 12:40	06/17/14 17:00

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PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Waste Management 2Q-HZ

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
06/19/14 13:24

Summit Scientific

741 Corporate Circle Suite I • Golden, Colorado 80401
303-277-9310 • 303-374-5933 Fax

Client: POC & Mary Tesmele

Address:

City/State/Zip:

Phone:

Fax:

Sample Name: Benem Bruns

Project Manager: Benem Bruns

E-Mail:

Project Name: Waste Management 219-H2

Project Number:

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1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Waste Management 2Q-HZ

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
06/19/14 13:24

SS01@6"
1406118-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/17/14 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1406124	06/17/14	06/17/14	8015M	

Date Sampled: **06/17/14 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.7 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/17/14 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1406123	06/17/14	06/17/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/17/14 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	21-167		"	"	"	"	

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1775 Sherman St. STE. 3000
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Project: Waste Management 2Q-HZ
Project Number: [none]
Project Manager: Brandon Brunns

Reported:
06/19/14 13:24

SS02@6"
1406118-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/17/14 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1406124	06/17/14	06/17/14	8015M	

Date Sampled: **06/17/14 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/17/14 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1406123	06/17/14	06/17/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	4.4	0.50	"	"	"	"	"	"	

Date Sampled: **06/17/14 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	21-167		"	"	"	"	

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Denver CO, 80203

Project: Waste Management 2Q-HZ
Project Number: [none]
Project Manager: Brandon Brunns

Reported:
06/19/14 13:24

SS03@6"
1406118-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/17/14 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1406124	06/17/14	06/17/14	8015M	

Date Sampled: **06/17/14 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/17/14 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1406123	06/17/14	06/17/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/17/14 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.9 %	21-167		"	"	"	"	

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Project: Waste Management 2Q-HZ
Project Number: [none]
Project Manager: Brandon Brunns

Reported:
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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1406124 - EPA 3550A

Blank (1406124-BLK1)

Prepared & Analyzed: 06/17/14

C10-C28 (DRO) ND 50 mg/kg

LCS (1406124-BS1)

Prepared & Analyzed: 06/17/14

C10-C28 (DRO) 536 50 mg/kg 491 109 73-134

Matrix Spike (1406124-MS1)

Source: 1406113-01

Prepared & Analyzed: 06/17/14

C10-C28 (DRO) 584 50 mg/kg 499 102 96.4 50-148

Matrix Spike Dup (1406124-MSD1)

Source: 1406113-01

Prepared & Analyzed: 06/17/14

C10-C28 (DRO) 581 50 mg/kg 494 102 96.8 50-148 0.503 13

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Denver CO, 80203

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Project Number: [none]
Project Manager: Brandon Bruns

Reported:
06/19/14 13:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1406123 - EPA 5030 Soil MS

Blank (1406123-BLK1)

Prepared & Analyzed: 06/17/14

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0423		"	0.0397	106	23-173				
Surrogate: Toluene-d8	0.0410		"	0.0400	102	20-170				
Surrogate: 4-Bromofluorobenzene	0.0434		"	0.0400	108	21-167				

LCS (1406123-BS1)

Prepared & Analyzed: 06/17/14

Benzene	0.115	0.0020	mg/kg	0.100	115	58-130				
Toluene	0.123	0.0050	"	0.100	123	61-134				
Ethylbenzene	0.114	0.0050	"	0.0992	115	74-139				
m,p-Xylene	0.213	0.010	"	0.200	107	73-137				
o-Xylene	0.107	0.0050	"	0.0984	109	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0397	102	23-173				
Surrogate: Toluene-d8	0.0418		"	0.0400	105	20-170				
Surrogate: 4-Bromofluorobenzene	0.0430		"	0.0400	108	21-167				

Matrix Spike (1406123-MS1)

Source: 1406113-01

Prepared & Analyzed: 06/17/14

Benzene	0.121	0.0020	mg/kg	0.100	0.00567	115	30-131			
Toluene	0.126	0.0050	"	0.100	ND	126	30-134			
Ethylbenzene	0.122	0.0050	"	0.0992	0.0110	112	22-153			
m,p-Xylene	0.219	0.010	"	0.200	0.00924	105	10-159			
o-Xylene	0.112	0.0050	"	0.0984	0.00660	107	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0397		105	23-173			
Surrogate: Toluene-d8	0.0414		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	21-167			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1406123 - EPA 5030 Soil MS

Matrix Spike Dup (1406123-MSD1)	Source: 1406113-01			Prepared & Analyzed: 06/17/14						
Benzene	0.121	0.0020	mg/kg	0.100	0.00567	116	30-131	0.223	34	
Toluene	0.125	0.0050	"	0.100	ND	125	30-134	0.120	30	
Ethylbenzene	0.124	0.0050	"	0.0992	0.0110	114	22-153	1.78	24	
m,p-Xylene	0.223	0.010	"	0.200	0.00924	107	10-159	1.60	68	
o-Xylene	0.116	0.0050	"	0.0984	0.00660	112	31-151	3.76	38	
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0397		108	23-173			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0427		"	0.0400		107	21-167			

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Project: Waste Management 2Q-HZ

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
06/19/14 13:24

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

A handwritten signature in black ink, appearing to be 'JMM'.