

Figure 1

Site Location Map
 Becker 5-1, 2, 14, 15
 SE 1/4 S5 T3N R64W
 Weld County, Colorado

Drawn By: CAW
 Date: 11/29/2012

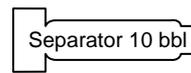
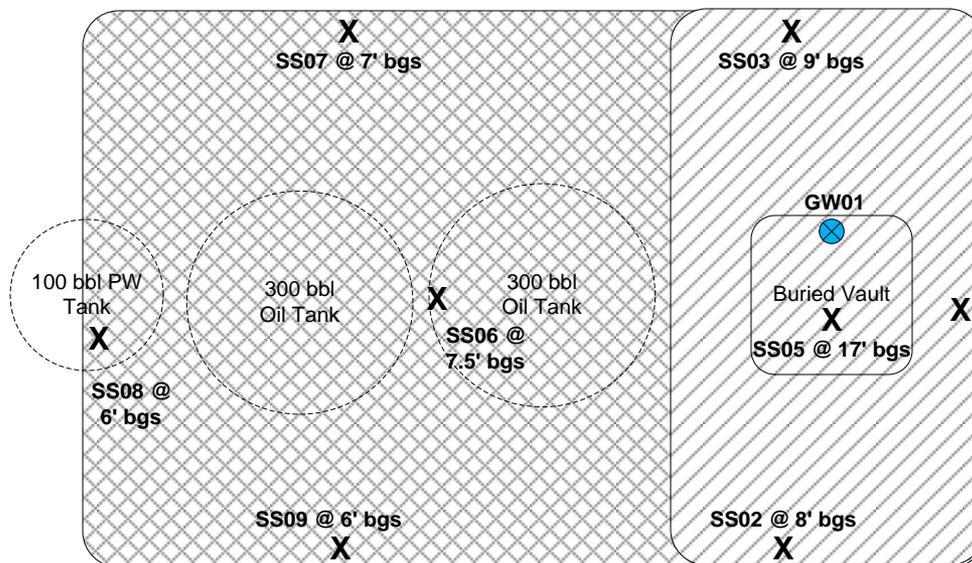




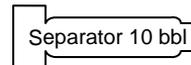
DCP / PDC Tank Battery

Property Fence

26'



Trench to 4.5 feet



Buried Private Water and Gas Lines

57'

Note: Surface drainage is estimated based on site topography and is not related to regional topography.

DRAWN BY: CAW

DATE: 11/29/2012

Facility Diagram
 PDC Energy – DJ Basin
 Becker 5-1, 2, 14, 15
 SE 1/4 S5 T3N R64W
 Weld County, CO



6899 Pecos Street
 Unit C
 Denver, CO 80221

- LEGEND**
- Former Tank Location
 - Earthen Berm
 - Approximate extent of excavation at ~ 7.5 feet bgs
 - Approximate extent of excavation at ~ 17 feet bgs
 - Soil Sample Location
 - Groundwater Sample Location

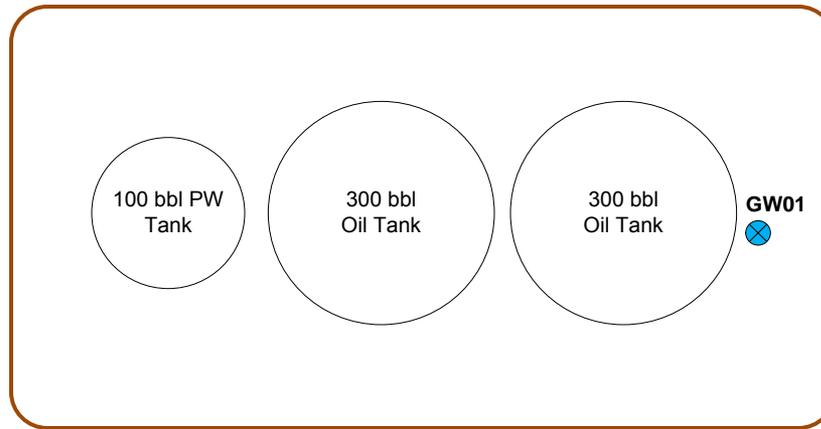
FIGURE 2

Not to Scale



DCP / PDC Tank Battery

Property Fence



BH03

BH03	
Compound (ug/L)	12/20/2012
Benzene	<1.0
Toluene	<1.0
Ethylbenzene	<1.0
Total Xylenes	<1.0

BH01

BH01	
Compound (ug/L)	12/20/2012
Benzene	97
Toluene	<1.0
Ethylbenzene	180
Total Xylenes	1,200

BH02

BH02	
Compound (ug/L)	12/20/2012
Benzene	170
Toluene	1.6
Ethylbenzene	490
Total Xylenes	1,700

Separator 10 bbl

Separator 10 bbl

Note: Surface drainage is estimated based on site topography and is not related to regional topography.

DRAWN BY: CAW

Facility Diagram
 PDC Energy – DJ Basin
 Becker 5-1, 2, 14, 15
 SE 1/4 S5 T3N R64W
 Weld County, CO



6899 Pecos Street
 Unit C
 Denver, CO 80221

LEGEND

- Earthen Berm
- Temporary Monitoring Well
- Groundwater Sample Location Collected During Excavation Activities

FIGURE 3
GROUNDWATER
ANALYTICAL RESULTS
 Not to Scale

DATE: 1/14/2013

TABLE 1
BECKER 5-1, 2, 14, 15
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)	Naphthalene (mg/kg)	TPH ⁽²⁾ (mg/kg)
SS01	11/27/2012	4.5	0	<0.005	<0.005	<0.005	<0.010	<0.005	<50
SS02	11/27/2012	8	0	<0.005	<0.005	<0.005	<0.010	0.0081	<50
SS03	11/27/2012	9	480	<0.005	1.3	0.79	16	2.1	3,500
SS04	11/28/2012	7.5	6	<0.005	<0.005	<0.005	<0.010	<0.005	<50
SS05	11/28/2012	17	2,875	1.5	6.5	12	100	4.7	5,020
SS06	11/28/2012	7.5	3	0.088	<0.005	0.038	0.076	0.029	2.1
SS07	11/28/2012	7	465	<0.005	<0.005	<0.005	<0.010	<0.005	1.2
SS08	11/29/2012	6	60	<0.005	<0.005	<0.005	0.024	<0.005	<50
SS09	11/29/2012	6	6	<0.005	<0.005	<0.005	0.031	<0.005	1.4
SS10 (BH01)	12/13/2012	12-15	1,431	0.08	<0.005	1.9	21	0.59	1,700
SS11 (BH02)	12/13/2012	14-15	1,035	0.0092	<0.005	0.11	0.76	0.032	38
COGCC standards for Soil (mg/kg) ⁽¹⁾				0.17	85	100	175	23	500

Notes:

- 1). Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 1, 2009.
 - 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.
Italicized PID readings were taken with a Benzene Photoionization Dectecor.

TABLE 2
BECKER 5-1, 2, 14, 15
GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (feet)
GW01	11/29/2012	3,100	610	320	3,700	16
BH01	12/20/2012	97	<1.0	180	1,200	13.24
BH02	12/20/2012	170	1.6	490	1,700	10.20
BH03	12/20/2012	<1.0	<1.0	<1.0	<1.0	12.78
COGCC standards for Groundwater (ug/L) ⁽¹⁾		5	560	700	1,400	

Notes:

1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 910-1 of the COGCC 900 Series Rule for E&P Waste Management.

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

ug/L= Micrograms per liter.

ATTACHMENT A

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

November 29, 2012

Brandon Bruns
PDC Energy
1775 Sherman St. STE. 3000
Denver, CO 80203
RE: Becker 5-1,2,14,15

Enclosed are the results of analyses for samples received by Summit Scientific on 11/27/12 17:11. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joseph J Egry IV
Laboratory Director



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
11/29/12 09:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@4.5'	R211172-01	Soil	11/27/12 12:40	11/27/12 17:11
SS02@8'	R211172-02	Soil	11/27/12 14:15	11/27/12 17:11
SS03@9'	R211172-03	Soil	11/27/12 14:40	11/27/12 17:11

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
11/29/12 09:25

SS01@4.5'
R211172-01 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: 11/27/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2112702	11/27/12	11/28/12	8015 DRO	

Date Sampled: 11/27/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.0 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/27/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	2112703	"	11/28/12	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 11/27/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.6 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		94.6 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	30-150		"	"	"	"	

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
11/29/12 09:25

SS02@8'
R211172-02 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **11/27/12 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2112702	11/27/12	11/28/12	8015 DRO	

Date Sampled: **11/27/12 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		99.3 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/27/12 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	0.0081	0.0050	mg/kg	1	2112703	"	11/28/12	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/27/12 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.0 %	30-150		"	"	"	"	

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
11/29/12 09:25

SS03@9'
R211172-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **11/27/12 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	2000	50	mg/kg	1	2112702	11/27/12	11/28/12	8015 DRO	

Date Sampled: **11/27/12 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		119 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/27/12 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	2.1	0.050	mg/kg	10	2112703	"	11/28/12	EPA 8260B	
Benzene	ND	0.050	"	"	"	"	"	"	
Toluene	1.3	0.050	"	"	"	"	"	"	
Ethylbenzene	0.79	0.050	"	"	"	"	"	"	
Xylenes (total)	16	0.10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1500	5.0	"	"	"	"	"	"	

Date Sampled: **11/27/12 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.9 %	30-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.3 %	30-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		59.0 %	30-150		"	"	"	"	

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
 Project Manager: Brandon Brunns

Reported:
 11/29/12 09:25

Total Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 2112702 - EPA 3550A

Blank (2112702-BLK1)				Prepared & Analyzed: 11/27/12							
C10-C28 (DRO)	ND	50	mg/kg								
LCS (2112702-BS1)				Prepared & Analyzed: 11/27/12							
C10-C28 (DRO)	533	50	mg/kg	501	106	73-134					
LCS Dup (2112702-BSD1)				Prepared & Analyzed: 11/27/12							
C10-C28 (DRO)	561	50	mg/kg	501	112	73-134	5.03	11			
Matrix Spike (2112702-MS1)				Source: R211158-01		Prepared & Analyzed: 11/27/12					
C10-C28 (DRO)	498	50	mg/kg	461	29.5	101	50-148				
Matrix Spike Dup (2112702-MSD1)				Source: R211158-01		Prepared & Analyzed: 11/27/12					
C10-C28 (DRO)	522	50	mg/kg	488	29.5	101	50-148	4.71	13		

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
11/29/12 09:25

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

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

Batch 2112703 - EPA 5030 Soil MS

Blank (2112703-BLK1)

Prepared & Analyzed: 11/27/12

Naphthalene	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0358</i>		<i>"</i>	<i>0.0397</i>	<i>90.2</i>	<i>30-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0380</i>		<i>"</i>	<i>0.0400</i>	<i>95.0</i>	<i>30-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0351</i>		<i>"</i>	<i>0.0400</i>	<i>87.8</i>	<i>30-150</i>				

LCS (2112703-BS1)

Prepared & Analyzed: 11/27/12

Naphthalene	ND	0.0050	mg/kg				66-138			
Benzene	0.0724	0.0050	"	0.100	72.4	58-130				
Toluene	0.0798	0.0050	"	0.100	79.8	61-134				
Ethylbenzene	0.0925	0.0050	"	0.100	92.5	74-139				
m,p-Xylene	0.183	0.010	"	0.200	91.4	73-137				
o-Xylene	0.0852	0.0050	"	0.100	85.2	73-141				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0350</i>		<i>"</i>	<i>0.0397</i>	<i>88.2</i>	<i>30-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0377</i>		<i>"</i>	<i>0.0400</i>	<i>94.3</i>	<i>30-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0358</i>		<i>"</i>	<i>0.0400</i>	<i>89.4</i>	<i>30-150</i>				

LCS Dup (2112703-BSD1)

Prepared & Analyzed: 11/27/12

Naphthalene	ND	0.0050	mg/kg				66-138		12	
Benzene	0.0794	0.0050	"	0.100	79.4	58-130	9.33		13	
Toluene	0.0868	0.0050	"	0.100	86.8	61-134	8.39		16	
Ethylbenzene	0.100	0.0050	"	0.100	100	74-139	8.12		12	
m,p-Xylene	0.201	0.010	"	0.200	100	73-137	9.37		14	
o-Xylene	0.0936	0.0050	"	0.100	93.6	73-141	9.40		12	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0358</i>		<i>"</i>	<i>0.0397</i>	<i>90.3</i>	<i>30-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>	<i>98.6</i>	<i>30-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0347</i>		<i>"</i>	<i>0.0400</i>	<i>86.8</i>	<i>30-150</i>				

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
11/29/12 09:25

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

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

Batch 2112703 - EPA 5030 Soil MS

Matrix Spike (2112703-MS1)

Source: R211158-01

Prepared & Analyzed: 11/27/12

Naphthalene	ND	0.0050	mg/kg		ND		10-158			
Benzene	0.0726	0.0050	"	0.0936	0.00	77.5	30-131			
Toluene	0.0794	0.0050	"	0.0936	0.00	84.8	30-134			
Ethylbenzene	0.0896	0.0050	"	0.0936	0.00	95.6	22-153			
m,p-Xylene	0.178	0.010	"	0.187	0.00	94.8	10-159			
o-Xylene	0.0837	0.0050	"	0.0936	0.00	89.4	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0372		"	0.0372		100	30-150			
Surrogate: Toluene-d8	0.0360		"	0.0375		96.2	30-150			
Surrogate: 4-Bromofluorobenzene	0.0338		"	0.0375		90.3	30-150			

Matrix Spike Dup (2112703-MSD1)

Source: R211158-01

Prepared & Analyzed: 11/27/12

Naphthalene	ND	0.0050	mg/kg		ND		10-158		42	
Benzene	0.0627	0.0050	"	0.0923	0.00	68.0	30-131	14.6	34	
Toluene	0.0688	0.0050	"	0.0923	0.00	74.6	30-134	14.3	30	
Ethylbenzene	0.0766	0.0050	"	0.0923	0.00	83.0	22-153	15.6	24	
m,p-Xylene	0.154	0.010	"	0.185	0.00	83.5	10-159	14.2	68	
o-Xylene	0.0718	0.0050	"	0.0923	0.00	77.8	31-151	15.3	38	
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0366		98.8	30-150			
Surrogate: Toluene-d8	0.0356		"	0.0369		96.6	30-150			
Surrogate: 4-Bromofluorobenzene	0.0320		"	0.0369		86.8	30-150			

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
11/29/12 09:25

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

November 29, 2012

Brandon Bruns
PDC Energy
1775 Sherman St. STE. 3000
Denver, CO 80203
RE: Becker 5-1,2,14,15

Enclosed are the results of analyses for samples received by Summit Scientific on 11/28/12 16:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joseph J Egry IV
Laboratory Director



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
11/29/12 09:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS04@7.5'	R211184-01	Soil	11/28/12 08:45	11/28/12 16:55
SS05@17'	R211184-02	Soil	11/28/12 12:15	11/28/12 16:55
SS06@7.5'	R211184-03	Soil	11/28/12 14:00	11/28/12 16:55
SS07@7'	R211184-04	Soil	11/28/12 14:05	11/28/12 16:55

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
11/29/12 09:41

SS04@7.5'
R211184-01 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: 11/28/12 08:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2112806	11/28/12	11/28/12	8015 DRO	

Date Sampled: 11/28/12 08:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.7 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/28/12 08:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	2112807	11/28/12	11/28/12	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 11/28/12 08:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.4 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.5 %	30-150		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
11/29/12 09:41

SS05@17'
R211184-02 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: 11/28/12 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	420	50	mg/kg	1	2112806	11/28/12	11/28/12	8015 DRO	

Date Sampled: 11/28/12 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		96.0 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/28/12 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	4.7	0.050	mg/kg	10	2112807	11/28/12	11/29/12	EPA 8260B	
Benzene	1.5	0.050	"	"	"	"	"	"	
Toluene	6.5	0.050	"	"	"	"	"	"	
Ethylbenzene	12	0.050	"	"	"	"	"	"	E
Xylenes (total)	100	0.10	"	"	"	"	"	"	E
Gasoline Range Hydrocarbons	4600	5.0	"	"	"	"	"	"	E

Date Sampled: 11/28/12 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.2 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		310 %	30-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene		87.2 %	30-150		"	"	"	"	

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
11/29/12 09:41

SS06@7.5'
R211184-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2112806	11/28/12	11/28/12	8015 DRO	

Date Sampled: **11/28/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		91.4 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	0.029	0.0050	mg/kg	1	2112807	11/28/12	11/28/12	EPA 8260B	
Benzene	0.088	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.038	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.076	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.1	0.50	"	"	"	"	"	"	

Date Sampled: **11/28/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.6 %	30-150		"	"	"	"	

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
11/29/12 09:41

SS07@7'
R211184-04 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: 11/28/12 14:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2112806	11/28/12	11/28/12	8015 DRO	

Date Sampled: 11/28/12 14:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		93.7 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/28/12 14:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	2112807	11/28/12	11/28/12	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.2	0.50	"	"	"	"	"	"	

Date Sampled: 11/28/12 14:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		117 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		91.6 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	30-150		"	"	"	"	

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
 Project Manager: Brandon Brunns

Reported:
 11/29/12 09:41

Total Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 2112806 - EPA 3550A

Blank (2112806-BLK1)		Prepared: 11/28/12 Analyzed: 11/29/12									
C10-C28 (DRO)	ND	50	mg/kg								
LCS (2112806-BS1)		Prepared: 11/28/12 Analyzed: 11/29/12									
C10-C28 (DRO)	643	50	mg/kg	501	128	73-134					
LCS Dup (2112806-BSD1)		Prepared: 11/28/12 Analyzed: 11/29/12									
C10-C28 (DRO)	665	50	mg/kg	501	133	73-134	3.38	11			
Matrix Spike (2112806-MS1)		Source: R211183-01		Prepared: 11/28/12 Analyzed: 11/29/12							
C10-C28 (DRO)	661	50	mg/kg	494	32.3	127	50-148				
Matrix Spike Dup (2112806-MSD1)		Source: R211183-01		Prepared: 11/28/12 Analyzed: 11/29/12							
C10-C28 (DRO)	610	50	mg/kg	484	32.3	119	50-148	8.02	13		

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
11/29/12 09:41

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

November 30, 2012

Brandon Bruns
PDC Energy
1775 Sherman St. STE. 3000
Denver, CO 80203
RE: Becker 5-1,2,14,15

Enclosed are the results of analyses for samples received by Summit Scientific on 11/29/12 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joseph J Egry IV
Laboratory Director



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
11/30/12 09:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	R211200-01	Water	11/29/12 07:50	11/29/12 12:00
SS08@6'	R211200-02	Soil	11/29/12 08:00	11/29/12 12:00
SS09@6'	R211200-03	Soil	11/29/12 10:15	11/29/12 12:00

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
 Project Manager: Brandon Brunns

Reported:
 11/30/12 09:38

GW01
R211200-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/29/12 07:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	3100	100	ug/l	100	2112808	11/29/12	11/29/12	EPA 8260B	
Toluene	610	100	"	"	"	"	"	"	
Ethylbenzene	320	100	"	"	"	"	"	"	
Xylenes (total)	3700	100	"	"	"	"	"	"	

Date Sampled: **11/29/12 07:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	50.1-150		"	"	"	"	

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
11/30/12 09:38

SS08@6'
R211200-02 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: 11/29/12 08:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2112911	11/29/12	11/29/12	8015 DRO	

Date Sampled: 11/29/12 08:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		89.6 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/29/12 08:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	2112910	11/29/12	11/29/12	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.024	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 11/29/12 08:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	30-150		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
11/30/12 09:38

SS09@6'
R211200-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **11/29/12 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2112911	11/29/12	11/29/12	8015 DRO	

Date Sampled: **11/29/12 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		86.7 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/29/12 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	2112910	11/29/12	11/29/12	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.031	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.4	0.50	"	"	"	"	"	"	

Date Sampled: **11/29/12 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	30-150		"	"	"	"	

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
 Project Manager: Brandon Brunns

Reported:
 11/30/12 09:38

Total Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 2112911 - EPA 3550A

Blank (2112911-BLK1)				Prepared & Analyzed: 11/29/12							
C10-C28 (DRO)	ND	50	mg/kg								
LCS (2112911-BS1)				Prepared & Analyzed: 11/29/12							
C10-C28 (DRO)	610	50	mg/kg	501	122	73-134					
LCS Dup (2112911-BSD1)				Prepared & Analyzed: 11/29/12							
C10-C28 (DRO)	609	50	mg/kg	501	122	73-134	0.137		11		
Matrix Spike (2112911-MS1)				Source: R211192-11		Prepared & Analyzed: 11/29/12					
C10-C28 (DRO)	619	50	mg/kg	490	ND	126	50-148				
Matrix Spike Dup (2112911-MSD1)				Source: R211192-11		Prepared & Analyzed: 11/29/12					
C10-C28 (DRO)	606	50	mg/kg	492	ND	123	50-148	2.10	13		

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
11/30/12 09:38

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

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

Batch 2112808 - EPA 5030 Water MS

Blank (2112808-BLK1)

Prepared & Analyzed: 11/28/12

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.2</i>		<i>"</i>	<i>13.2</i>		<i>99.7</i>	<i>49.7-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.5</i>		<i>"</i>	<i>13.3</i>		<i>101</i>	<i>51-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.7</i>		<i>"</i>	<i>13.3</i>		<i>103</i>	<i>50.1-150</i>				

LCS (2112808-BS1)

Prepared & Analyzed: 11/28/12

Benzene	34.1	1.0	ug/l	33.3		102	51-132				
Toluene	34.4	1.0	"	33.3		103	51-138				
Ethylbenzene	35.3	1.0	"	33.3		106	58-146				
m,p-Xylene	70.3	2.0	"	66.7		105	57-144				
o-Xylene	34.4	1.0	"	33.3		103	53-146				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.7</i>		<i>"</i>	<i>13.2</i>		<i>111</i>	<i>49.7-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.8</i>	<i>51-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.4</i>		<i>"</i>	<i>13.3</i>		<i>100</i>	<i>50.1-150</i>				

LCS Dup (2112808-BSD1)

Prepared & Analyzed: 11/28/12

Benzene	32.6	1.0	ug/l	33.3		97.7	51-132	4.56	17		
Toluene	32.8	1.0	"	33.3		98.5	51-138	4.79	17		
Ethylbenzene	36.0	1.0	"	33.3		108	58-146	1.99	16		
m,p-Xylene	71.2	2.0	"	66.7		107	57-144	1.23	16		
o-Xylene	34.5	1.0	"	33.3		104	53-146	0.435	15		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.6</i>		<i>"</i>	<i>13.2</i>		<i>95.2</i>	<i>49.7-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.5</i>	<i>51-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.4</i>		<i>"</i>	<i>13.3</i>		<i>101</i>	<i>50.1-150</i>				

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
11/30/12 09:38

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

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

Batch 2112808 - EPA 5030 Water MS

Matrix Spike (2112808-MS1)	Source: R211150-05			Prepared & Analyzed: 11/28/12						
Benzene	31.8	1.0	ug/l	33.3	ND	95.3	34-141			
Toluene	32.0	1.0	"	33.3	ND	96.1	27-151			
Ethylbenzene	33.5	1.0	"	33.3	ND	100	29-160			
m,p-Xylene	66.6	2.0	"	66.7	ND	99.9	20-166			
o-Xylene	32.1	1.0	"	33.3	ND	96.3	33-159			
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.2		98.9	49.7-150			
Surrogate: Toluene-d8	13.4		"	13.3		101	51-150			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.8	50.1-150			

Matrix Spike Dup (2112808-MSD1)	Source: R211150-05			Prepared & Analyzed: 11/28/12						
Benzene	26.6	1.0	ug/l	33.3	ND	79.7	34-141	17.8	32	
Toluene	26.8	1.0	"	33.3	ND	80.4	27-151	17.7	25	
Ethylbenzene	28.0	1.0	"	33.3	ND	84.0	29-160	17.9	50	
m,p-Xylene	55.6	2.0	"	66.7	ND	83.4	20-166	18.0	36	
o-Xylene	27.8	1.0	"	33.3	ND	83.3	33-159	14.4	26	
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.2		106	49.7-150			
Surrogate: Toluene-d8	13.3		"	13.3		100	51-150			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	50.1-150			

Batch 2112910 - EPA 5030 Soil MS

Blank (2112910-BLK1)	Prepared & Analyzed: 11/29/12									
Naphthalene	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0414		"	0.0397		104	30-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.1	30-150			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.1	30-150			

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
11/30/12 09:38

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

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

Batch 2112910 - EPA 5030 Soil MS

LCS (2112910-BS1)

Prepared & Analyzed: 11/29/12

Naphthalene	0.00495	0.0050	mg/kg				66-138			
Benzene	0.0732	0.0050	"	0.100		73.2	58-130			
Toluene	0.0776	0.0050	"	0.100		77.6	61-134			
Ethylbenzene	0.100	0.0050	"	0.100		100	74-139			
m,p-Xylene	0.182	0.010	"	0.200		90.9	73-137			
o-Xylene	0.0944	0.0050	"	0.100		94.4	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0397		103	30-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.6	30-150			
Surrogate: 4-Bromofluorobenzene	0.0345		"	0.0400		86.2	30-150			

LCS Dup (2112910-BSD1)

Prepared & Analyzed: 11/29/12

Naphthalene	0.00453	0.0050	mg/kg				66-138	8.86	12	
Benzene	0.0747	0.0050	"	0.100		74.7	58-130	1.95	13	
Toluene	0.0792	0.0050	"	0.100		79.2	61-134	1.95	16	
Ethylbenzene	0.103	0.0050	"	0.100		103	74-139	2.84	12	
m,p-Xylene	0.186	0.010	"	0.200		93.1	73-137	2.36	14	
o-Xylene	0.0972	0.0050	"	0.100		97.2	73-141	2.91	12	
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0397		103	30-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	30-150			
Surrogate: 4-Bromofluorobenzene	0.0367		"	0.0400		91.7	30-150			

Matrix Spike (2112910-MS1)

Source: R211192-11

Prepared & Analyzed: 11/29/12

Naphthalene	0.00385	0.0050	mg/kg		0.0110		10-158			
Benzene	0.0733	0.0050	"	0.0988	0.00	74.2	30-131			
Toluene	0.0784	0.0050	"	0.0988	0.00	79.4	30-134			
Ethylbenzene	0.101	0.0050	"	0.0988	0.00	102	22-153			
m,p-Xylene	0.184	0.010	"	0.198	0.00	93.2	10-159			
o-Xylene	0.0974	0.0050	"	0.0988	0.00	98.6	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0465		"	0.0392		119	30-150			
Surrogate: Toluene-d8	0.0405		"	0.0395		103	30-150			
Surrogate: 4-Bromofluorobenzene	0.0368		"	0.0395		93.0	30-150			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
 Project Manager: Brandon Brunns

Reported:
 11/30/12 09:38

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

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

Batch 2112910 - EPA 5030 Soil MS

Matrix Spike Dup (2112910-MSD1)	Source: R211192-11			Prepared & Analyzed: 11/29/12						
Naphthalene	0.00392	0.0050	mg/kg		0.0110		10-158	1.69	42	
Benzene	0.0732	0.0050	"	0.0982	0.00	74.5	30-131	0.188	34	
Toluene	0.0797	0.0050	"	0.0982	0.00	81.1	30-134	1.65	30	
Ethylbenzene	0.102	0.0050	"	0.0982	0.00	104	22-153	0.749	24	
m,p-Xylene	0.183	0.010	"	0.196	0.00	93.0	10-159	0.817	68	
o-Xylene	0.0959	0.0050	"	0.0982	0.00	97.6	31-151	1.57	38	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0457</i>		<i>"</i>	<i>0.0390</i>		<i>117</i>	<i>30-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0389</i>		<i>"</i>	<i>0.0393</i>		<i>98.9</i>	<i>30-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0359</i>		<i>"</i>	<i>0.0393</i>		<i>91.4</i>	<i>30-150</i>			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
11/30/12 09:38

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 19, 2012

Brandon Bruns
PDC Energy
1775 Sherman St. STE. 3000
Denver, CO 80203
RE: Becker 5-1,2,14,15

Enclosed are the results of analyses for samples received by Summit Scientific on 12/14/12 14:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joseph J Egry IV
Laboratory Director



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/19/12 13:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS10	R212087-01	Soil	12/13/12 12:45	12/14/12 14:25
SS11	R212087-02	Soil	12/13/12 12:50	12/14/12 14:25

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
12/19/12 13:13

SS10
R212087-01 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: 12/13/12 12:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	400	50	mg/kg	1	2121502	12/15/12	12/18/12	8015 DRO	

Date Sampled: 12/13/12 12:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		84.8 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/13/12 12:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	0.59	0.0050	mg/kg	1	2121501	12/15/12	12/18/12	EPA 8260B	
Benzene	0.080	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	1.9	0.50	"	100	"	"	"	"	
Xylenes (total)	21	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1300	50	"	"	"	"	"	"	

Date Sampled: 12/13/12 12:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	21-167		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
12/19/12 13:13

SS11
R212087-02 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: 12/13/12 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2121502	12/15/12	12/18/12	8015 DRO	

Date Sampled: 12/13/12 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		81.6 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/13/12 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	0.032	0.0050	mg/kg	1	2121501	12/15/12	12/18/12	EPA 8260B	
Benzene	0.0092	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.11	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.76	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	38	0.50	"	"	"	"	"	"	

Date Sampled: 12/13/12 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		90.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.9 %	21-167		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
 Project Manager: Brandon Brunns

Reported:
 12/19/12 13:13

Total Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 2121502 - EPA 3550A

Blank (2121502-BLK1)				Prepared & Analyzed: 12/15/12						
C10-C28 (DRO)	ND	50	mg/kg							
LCS (2121502-BS1)				Prepared & Analyzed: 12/15/12						
C10-C28 (DRO)	451	50	mg/kg	501	38.1	83.3	73-134			
LCS Dup (2121502-BSD1)				Prepared & Analyzed: 12/15/12						
C10-C28 (DRO)	446	50	mg/kg	501	38.1	83.4	73-134	1.13	11	
Matrix Spike (2121502-MS1)				Source: R212089-01 Prepared & Analyzed: 12/15/12						
C10-C28 (DRO)	450	50	mg/kg	495	38.1	83.3	50-148			
Matrix Spike Dup (2121502-MSD1)				Source: R212089-01 Prepared & Analyzed: 12/15/12						
C10-C28 (DRO)	446	50	mg/kg	489	38.1	83.4	50-148	0.909	13	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
12/19/12 13:13

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

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

Batch 2121501 - EPA 5030 Soil MS

Blank (2121501-BLK1)

Prepared & Analyzed: 12/15/12

Naphthalene	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0379		"	0.0397	95.4	23-173				
Surrogate: Toluene-d8	0.0396		"	0.0400	98.9	20-170				
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400	94.0	21-167				

LCS (2121501-BS1)

Prepared & Analyzed: 12/15/12

Naphthalene	ND	0.0050	mg/kg			66-138				
Benzene	0.0870	0.0050	"	0.100	87.0	58-130				
Toluene	0.0972	0.0050	"	0.100	97.2	61-134				
Ethylbenzene	0.102	0.0050	"	0.100	102	74-139				
m,p-Xylene	0.208	0.010	"	0.200	104	73-137				
o-Xylene	0.106	0.0050	"	0.100	106	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0387		"	0.0397	97.6	23-173				
Surrogate: Toluene-d8	0.0401		"	0.0400	100	20-170				
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400	94.9	21-167				

LCS Dup (2121501-BSD1)

Prepared: 12/15/12 Analyzed: 12/16/12

Naphthalene	ND	0.0050	mg/kg			66-138		12		
Benzene	0.0950	0.0050	"	0.100	95.0	58-130	8.77	13		
Toluene	0.104	0.0050	"	0.100	104	61-134	6.71	16		
Ethylbenzene	0.106	0.0050	"	0.100	106	74-139	3.62	12		
m,p-Xylene	0.215	0.010	"	0.200	107	73-137	3.05	14		
o-Xylene	0.107	0.0050	"	0.100	107	73-141	1.24	12		
Surrogate: 1,2-Dichloroethane-d4	0.0394		"	0.0397	99.1	23-173				
Surrogate: Toluene-d8	0.0396		"	0.0400	99.1	20-170				
Surrogate: 4-Bromofluorobenzene	0.0373		"	0.0400	93.2	21-167				

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
12/19/12 13:13

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

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

Batch 2121501 - EPA 5030 Soil MS

Matrix Spike (2121501-MS1)

Source: R212089-01

Prepared: 12/15/12 Analyzed: 12/16/12

Naphthalene	ND	0.0050	mg/kg		ND		10-158			
Benzene	0.0912	0.0050	"	0.0977	0.00	93.4	30-131			
Toluene	0.101	0.0050	"	0.0977	0.00	104	30-134			
Ethylbenzene	0.103	0.0050	"	0.0977	0.00	106	22-153			
m,p-Xylene	0.210	0.010	"	0.195	0.00	108	10-159			
o-Xylene	0.106	0.0050	"	0.0977	0.00	108	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0420		"	0.0388		108	23-173			
Surrogate: Toluene-d8	0.0387		"	0.0391		99.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0391		97.9	21-167			

Matrix Spike Dup (2121501-MSD1)

Source: R212089-01

Prepared: 12/15/12 Analyzed: 12/16/12

Naphthalene	ND	0.0050	mg/kg		ND		10-158		42	
Benzene	0.0919	0.0050	"	0.0996	0.00	92.3	30-131	0.745	34	
Toluene	0.101	0.0050	"	0.0996	0.00	101	30-134	0.312	30	
Ethylbenzene	0.100	0.0050	"	0.0996	0.00	100	22-153	3.10	24	
m,p-Xylene	0.200	0.010	"	0.199	0.00	100	10-159	5.02	68	
o-Xylene	0.102	0.0050	"	0.0996	0.00	103	31-151	3.60	38	
Surrogate: 1,2-Dichloroethane-d4	0.0432		"	0.0395		109	23-173			
Surrogate: Toluene-d8	0.0396		"	0.0398		99.3	20-170			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0398		94.6	21-167			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/19/12 13:13

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 27, 2012

Brandon Bruns
PDC Energy
1775 Sherman St. STE. 3000
Denver, CO 80203
RE: Becker 5-1,2,14,15

Enclosed are the results of analyses for samples received by Summit Scientific on 12/21/12 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joseph J Egry IV
Laboratory Director



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/27/12 15:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R212143-01	Water	12/20/12 13:20	12/21/12 12:00
BH02	R212143-02	Water	12/20/12 13:25	12/21/12 12:00
BH03	R212143-03	Water	12/20/12 13:30	12/21/12 12:00

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
 Project Manager: Brandon Brunns

Reported:
 12/27/12 15:50

BH01
R212143-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/20/12 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	97	1.0	ug/l	1	2122608	12/26/12	12/27/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	180	1.0	"	"	"	"	"	"	
Xylenes (total)	1200	100	"	100	"	"	12/27/12	"	

Date Sampled: 12/20/12 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	37-154		"	"	12/27/12	"	
<i>Surrogate: Toluene-d8</i>		115 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		75.7 %	45-146		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
 Project Manager: Brandon Brunns

Reported:
 12/27/12 15:50

BH02
R212143-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/20/12 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	170	1.0	ug/l	1	2122608	12/26/12	12/27/12	EPA 8260B	
Toluene	1.6	1.0	"	"	"	"	"	"	
Ethylbenzene	490	100	"	100	"	"	12/27/12	"	
Xylenes (total)	1700	100	"	"	"	"	"	"	

Date Sampled: 12/20/12 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	37-154		"	"	12/27/12	"	
<i>Surrogate: Toluene-d8</i>		104 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		75.3 %	45-146		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
 Project Manager: Brandon Brunns

Reported:
 12/27/12 15:50

BH03
R212143-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/20/12 13:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2122608	12/26/12	12/27/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/20/12 13:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		117 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		98.4 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	45-146		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/27/12 15:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 2122608 - EPA 5030 Water MS

Blank (2122608-BLK1)

Prepared & Analyzed: 12/26/12

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.2	96.9	37-154					
Surrogate: Toluene-d8	12.8		"	13.3	96.2	45-149					
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3	92.4	45-146					

Blank (2122608-BLK2)

Prepared & Analyzed: 12/26/12

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.2	93.3	37-154					
Surrogate: Toluene-d8	12.7		"	13.3	95.0	45-149					
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3	93.7	45-146					

LCS (2122608-BS1)

Prepared & Analyzed: 12/26/12

Benzene	27.1	1.0	ug/l	33.3	81.3	51-132					
Toluene	32.3	1.0	"	33.3	96.9	51-138					
Ethylbenzene	42.1	1.0	"	33.3	126	58-146					
m,p-Xylene	77.3	2.0	"	66.7	116	57-144					
o-Xylene	40.5	1.0	"	33.3	121	53-146					
Surrogate: 1,2-Dichloroethane-d4	12.6		"	13.2	94.9	37-154					
Surrogate: Toluene-d8	12.9		"	13.3	96.5	45-149					
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3	95.9	45-146					

LCS (2122608-BS2)

Prepared & Analyzed: 12/26/12

Benzene	27.5	1.0	ug/l	33.3	82.4	51-132					
Toluene	32.3	1.0	"	33.3	97.0	51-138					
Ethylbenzene	41.5	1.0	"	33.3	124	58-146					
m,p-Xylene	75.5	2.0	"	66.7	113	57-144					
o-Xylene	40.1	1.0	"	33.3	120	53-146					
Surrogate: 1,2-Dichloroethane-d4	12.3		"	13.2	93.2	37-154					
Surrogate: Toluene-d8	13.1		"	13.3	98.3	45-149					
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3	92.1	45-146					

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/27/12 15:50

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

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

Batch 2122608 - EPA 5030 Water MS

LCS Dup (2122608-BSD1)

Prepared & Analyzed: 12/26/12

Benzene	27.7	1.0	ug/l	33.3		83.1	51-132	2.19	17	
Toluene	32.1	1.0	"	33.3		96.4	51-138	0.497	17	
Ethylbenzene	41.8	1.0	"	33.3		126	58-146	0.524	16	
m,p-Xylene	74.9	2.0	"	66.7		112	57-144	3.11	16	
o-Xylene	40.7	1.0	"	33.3		122	53-146	0.468	15	
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.2		94.6	37-154			
Surrogate: Toluene-d8	12.9		"	13.3		96.6	45-149			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.2	45-146			

LCS Dup (2122608-BSD2)

Prepared & Analyzed: 12/26/12

Benzene	27.9	1.0	ug/l	33.3		83.8	51-132	1.70	17	
Toluene	33.2	1.0	"	33.3		99.5	51-138	2.50	17	
Ethylbenzene	41.3	1.0	"	33.3		124	58-146	0.387	16	
m,p-Xylene	75.1	2.0	"	66.7		113	57-144	0.624	16	
o-Xylene	40.6	1.0	"	33.3		122	53-146	1.29	15	
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.2		95.9	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	45-149			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		92.7	45-146			

Matrix Spike (2122608-MS1)

Source: R212154-01

Prepared & Analyzed: 12/26/12

Benzene	27.7	1.0	ug/l	33.3	ND	83.2	34-141			
Toluene	33.3	1.0	"	33.3	ND	99.9	27-151			
Ethylbenzene	40.9	1.0	"	33.3	ND	123	29-160			
m,p-Xylene	75.5	2.0	"	66.7	ND	113	20-166			
o-Xylene	40.0	1.0	"	33.3	ND	120	33-159			
Surrogate: 1,2-Dichloroethane-d4	13.0		"	13.2		98.4	37-154			
Surrogate: Toluene-d8	13.1		"	13.3		98.2	45-149			
Surrogate: 4-Bromofluorobenzene	11.8		"	13.3		88.6	45-146			

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/27/12 15:50

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

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

Batch 2122608 - EPA 5030 Water MS

Matrix Spike (2122608-MS2)

Source: R212154-02

Prepared & Analyzed: 12/26/12

Benzene	28.5	1.0	ug/l	33.3	ND	85.5	34-141			
Toluene	33.2	1.0	"	33.3	ND	99.5	27-151			
Ethylbenzene	42.1	1.0	"	33.3	ND	126	29-160			
m,p-Xylene	77.0	2.0	"	66.7	ND	116	20-166			
o-Xylene	41.0	1.0	"	33.3	ND	123	33-159			
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.2		94.1	37-154			
Surrogate: Toluene-d8	13.3		"	13.3		99.7	45-149			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		92.6	45-146			

Matrix Spike Dup (2122608-MSD1)

Source: R212154-01

Prepared & Analyzed: 12/26/12

Benzene	28.3	1.0	ug/l	33.3	ND	85.0	34-141	2.18	32
Toluene	33.6	1.0	"	33.3	ND	101	27-151	0.926	25
Ethylbenzene	42.7	1.0	"	33.3	ND	128	29-160	4.38	50
m,p-Xylene	78.3	2.0	"	66.7	ND	117	20-166	3.66	36
o-Xylene	41.7	1.0	"	33.3	ND	125	33-159	4.24	26
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.2		94.5	37-154		
Surrogate: Toluene-d8	13.3		"	13.3		99.9	45-149		
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.7	45-146		

Matrix Spike Dup (2122608-MSD2)

Source: R212154-02

Prepared & Analyzed: 12/26/12

Benzene	28.4	1.0	ug/l	33.3	ND	85.3	34-141	0.211	32
Toluene	33.7	1.0	"	33.3	ND	101	27-151	1.56	25
Ethylbenzene	41.2	1.0	"	33.3	ND	124	29-160	2.04	50
m,p-Xylene	75.1	2.0	"	66.7	ND	113	20-166	2.50	36
o-Xylene	40.7	1.0	"	33.3	ND	122	33-159	0.832	26
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.2		93.9	37-154		
Surrogate: Toluene-d8	13.0		"	13.3		97.6	45-149		
Surrogate: 4-Bromofluorobenzene	12.1		"	13.3		90.8	45-146		

Summit Scientific

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

Project: Becker 5-1,2,14,15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
12/27/12 15:50

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