

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 01, 2016

Steve Weathers
DCP Midstream
370 17th Street #2500
Denver, CO 80202
RE: Arens Leak

Enclosed are the results of analyses for samples received by Summit Scientific on 11/28/16 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



DCP Midstream
370 17th Street #2500
Denver CO, 80202

Project: Arens Leak

Project Number: [none]
Project Manager: Steve Weathers

Reported:
12/01/16 08:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01@6'	1611222-01	Soil	11/28/16 09:32	11/28/16 16:45
BH01@8'	1611222-02	Soil	11/28/16 09:40	11/28/16 16:45

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DCP Midstream
370 17th Street #2500
Denver CO, 80202

Project: Arens Leak

Project Number: [none]
Project Manager: Steve Weathers

Reported:
12/01/16 08:29

Summit Scientific 1611222

741 Corporate Circle Suite 1 • Golden, Colorado 80401
303-277-9310 • 303-374-5933 Fax

Page 1 of 1

Client: DCP Midstream / Tasman
Address: _____
City/State/Zip: _____
Phone: _____ Fax: _____
Sampler Name: Brian Humphrey

Project Manager: Steve Weathers / Brian Humphrey
E-Mail: swweathers@dcpmidstream.com / bhumphrey@tasman-geo.com
Project Name: Arens Leak
Project Number: _____

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative			Matrix		Analyze For:				Special Instructions	
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	B260 GBTEX		8015 DRO
BH01 @ 6'	11/28/2016	9:32	1		X									Analyze Sample
BH01 @ 8'	11/28/2016	9:40	1		X									Analyze Sample
BH01 @ 0-1'	11/28/2016	9:20	1		X									HOLD Sample
BH01 @ 5'	11/28/2016	9:29	1		X									HOLD Sample
BH01 @ 7'	11/28/2016	9:36	1		X									HOLD Sample
Relinquished by: Date/Time: 11-28-16/1445 Received by: Date/Time: 11/28/16 1445 Turn Around Time (Check): Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>													Notes: Analyze samples as noted above. Hold remaining samples until notified.	
Relinquished by: Date/Time: 11/28/16 1715 Received by: Date/Time: 11-28-16 1715 Sample Integrity: Temperature Upon Receipt: 3.1°C Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														

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Project: Arens Leak

Project Number: [none]
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Reported:
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BH01@6'
1611222-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/16 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1611309	11/29/16	11/30/16	8015M	

Date Sampled: **11/28/16 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		97.7 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/16 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1611310	11/29/16	11/30/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/28/16 09:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

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Project: Arens Leak

Project Number: [none]
Project Manager: Steve Weathers

Reported:
12/01/16 08:29

BH01@8'
1611222-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/16 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1611309	11/29/16	11/30/16	8015M	

Date Sampled: **11/28/16 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		96.9 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/16 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1611310	11/29/16	11/30/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/28/16 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

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Reported:
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Extractable 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 1611309 - EPA 3550A

Blank (1611309-BLK1)

Prepared & Analyzed: 11/29/16

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	12.6		"	12.5		101	30-150				

LCS (1611309-BS1)

Prepared & Analyzed: 11/29/16

C10-C28 (DRO)	439	50	mg/kg	499		88.0	73-134				
<i>Surrogate: o-Terphenyl</i>	13.0		"	12.5		104	30-150				

Matrix Spike (1611309-MS1)

Source: 1611218-01

Prepared & Analyzed: 11/29/16

C10-C28 (DRO)	449	50	mg/kg	499	7.70	88.5	50-148				
<i>Surrogate: o-Terphenyl</i>	13.0		"	12.5		104	30-150				

Matrix Spike Dup (1611309-MSD1)

Source: 1611218-01

Prepared & Analyzed: 11/29/16

C10-C28 (DRO)	443	50	mg/kg	499	7.70	87.3	50-148	1.33		20	
<i>Surrogate: o-Terphenyl</i>	13.1		"	12.5		105	30-150				

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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 1611310 - EPA 5030 Soil MS

Blank (1611310-BLK1)

Prepared & Analyzed: 11/29/16

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0471</i>		<i>"</i>	<i>0.0400</i>		<i>118</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0412</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>21-167</i>			

LCS (1611310-BS1)

Prepared & Analyzed: 11/29/16

Benzene	0.0784	0.0020	mg/kg	0.100		78.4	58-130			
Toluene	0.0881	0.0050	"	0.100		88.1	61-134			
Ethylbenzene	0.109	0.0050	"	0.0992		110	74-139			
m,p-Xylene	0.196	0.010	"	0.200		98.4	73-137			
o-Xylene	0.102	0.0050	"	0.0980		104	73-141			
Xylenes (total)	0.299	0.0050	"				30-150			
Gasoline Range Hydrocarbons	2.80	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0484</i>		<i>"</i>	<i>0.0400</i>		<i>121</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>21-167</i>			

Matrix Spike (1611310-MS1)

Source: 1611218-01

Prepared & Analyzed: 11/29/16

Benzene	0.0795	0.0020	mg/kg	0.100	ND	79.5	30-131			
Toluene	0.0898	0.0050	"	0.100	ND	89.8	30-134			
Ethylbenzene	0.110	0.0050	"	0.0992	ND	111	22-153			
m,p-Xylene	0.198	0.010	"	0.200	ND	99.3	10-159			
o-Xylene	0.105	0.0050	"	0.0980	ND	107	31-151			
Xylenes (total)	0.303	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	2.87	0.50	"		ND		30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0535</i>		<i>"</i>	<i>0.0400</i>		<i>134</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>21-167</i>			

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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 1611310 - EPA 5030 Soil MS

Matrix Spike Dup (1611310-MSD1)	Source: 1611218-01			Prepared & Analyzed: 11/29/16						
Benzene	0.0797	0.0020	mg/kg	0.100	ND	79.7	30-131	0.339	34	
Toluene	0.0886	0.0050	"	0.100	ND	88.6	30-134	1.35	30	
Ethylbenzene	0.109	0.0050	"	0.0992	ND	110	22-153	1.31	24	
m,p-Xylene	0.194	0.010	"	0.200	ND	97.0	10-159	2.39	68	
o-Xylene	0.102	0.0050	"	0.0980	ND	104	31-151	2.91	38	
Xylenes (total)	0.295	0.0050	"		ND		30-150	2.57	20	
Gasoline Range Hydrocarbons	2.83	0.50	"		ND		30-150	1.53	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0547</i>		<i>"</i>	<i>0.0400</i>		<i>137</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>21-167</i>			

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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