

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

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

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303-277-9310 • 303-374-5933 Fax

Page 1 of 1

Client: DCP Midstream / Tasman

Address:

City/State/Zip: _____

Phone:

Sampler Name:

Fax: _____
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)	8280 GBTEX	8015 DRO						
BH01 @ 6'	11/28/2016	9:32	1		X			X				X	X						Analyze Sample
BH01 @ 8'	11/28/2016	9:40	1		X			X				X	X						Analyze Sample
BH01 @ 0-1'	11/28/2016	9:20	1		X			X				X	X						HOLD Sample
BH01 @ 5'	11/28/2016	9:29	1		X			X				X	X						HOLD Sample
BH01 @ 7'	11/28/2016	9:36	1		X			X				X	X						HOLD Sample
Relinquished by: <i>[Signature]</i>	Date/Time: 11-28-16/1445	Received by: <i>[Signature]</i>	Date/Time: 11/28/16 1445					Turn Around Time (Check) Same Day 24 Hours 48 Hours				<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>				Notes: Analyze samples as noted above. Hold remaining samples until notified.			
Relinquished by: <i>[Signature]</i>	Date/Time: 11/28/16 1715	Received by: <i>[Signature]</i>	Date/Time: 11-28-16 1715																
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:					Sample Integrity: Temperature Upon Receipt: Intact: Yes No				3.1°C							

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Reported:
12/01/16 08:29

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: o-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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Reported:
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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: o-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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Project: Arens Leak
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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 1611309 - EPA 3550A

Blank (1611309-BLK1)

Prepared & Analyzed: 11/29/16

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 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

Surrogate: o-Terphenyl 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

Surrogate: o-Terphenyl 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

Surrogate: o-Terphenyl 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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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

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			
Surrogate: 1,2-Dichloroethane-d4	0.0484		"	0.0400		121	23-173			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	21-167			

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			
Surrogate: 1,2-Dichloroethane-d4	0.0535		"	0.0400		134	23-173			
Surrogate: Toluene-d8	0.0410		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400		104	21-167			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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	
Surrogate: 1,2-Dichloroethane-d4	0.0547		"	0.0400		137	23-173			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400		104	21-167			

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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