BROOKSIDE LABORATORIES, INC.
GEOTECHNICAL DIVISION
200 WHITE MOUNTAIN DRIVE
NEW BREMEN, OH 45869

** PHYSICAL ANALYSIS REPORT **

Dragon Ridge C.C.
Henderson, NV

File Number: 47746

Date Received/Started : 10/12/2022
Date Completed/Reported: 10/20/2022
Date Issued: 10/20/2022

Submitted By: Soil and Water Consulting

Lab Number 2363
Sample Description WCS&G
STRAIGHT SAND

Sample Condition XX Normal ___ Other (see comments)

Method References

ASTM D5550
ASTM F1632
ASTM F1647 - Method A
ASTM F1815

D Values

** D10: 0.20
** D60: 0.57
** Coefficient of Uniformity: 2.91

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*Reported values are an average of duplicated analysis

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*** These results represent the sample submitted only.***

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Geotechnical
(Putting Green Materials)
Certificate Number: 736.01

CAPPING CHARACTERISTICS

Dragon Ridge C.C.
Henderson, NV

File Number : 47746
** Date of Analysis **
Start Date : 10/12/2022
Completed : 10/20/2022

Submitted By: Soil and Water Consulting Reviewed by: _____

Lab Number	2363
Sample Description	WCS&G STRAIGHT SAND

Particle Size Analysis

Clay <.002mm	%	0.7
Silt .002mm - .05mm	%	0.9
Sand .05mm - 2.00mm	%	98.1
Gravel > 2.0mm	%	0.3

Org Mat 360 deg C (LOI)	< 0.10

Sand Fractions

Sieve Size #	mm		% Retained
10 -	2.0	Fine Gravel	0.3
18 -	1.0	Very Coarse Sand	7.5
35 -	.500	Coarse Sand	37.7
60 -	.250	Medium Sand	38.7
100 -	.150	Fine Sand	10.9
140 -	.106	Very Fine Sand	2.4
270 -	.053	Very Fine Sand	0.9

Soil Moisture Measurements

Saturated Conductivity in/hr	38.4

Soil Density

Bulk Density	g/cc	1.55
Particle Density	g/cc	2.66

*MOISTURE RETENTION %

		*PORE SPACE %		
		TOTAL	CAPILLARY	AIR FILLED
SATURATION	23.2	41.9	41.9	0.0
10 CM	22.6	41.9	35.0	7.0
20 CM	19.9	41.9	30.8	11.2
30 CM	13.9	41.9	21.4	20.5
40 CM	8.9	41.9	13.8	28.1

File Number: 47746
Client Name: Dragon Ridge C.C.
Submitted By: Soil and Water Consulting
Start Date: 10/12/2022
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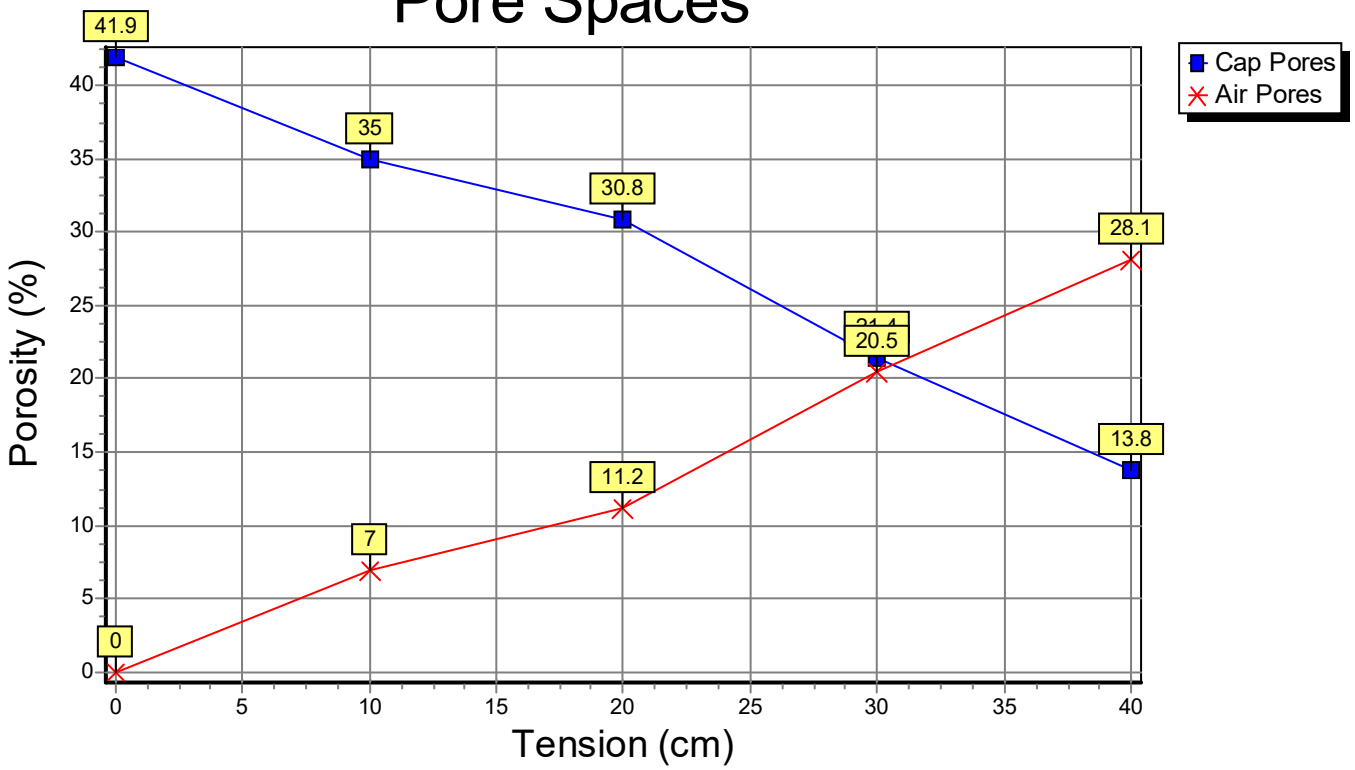
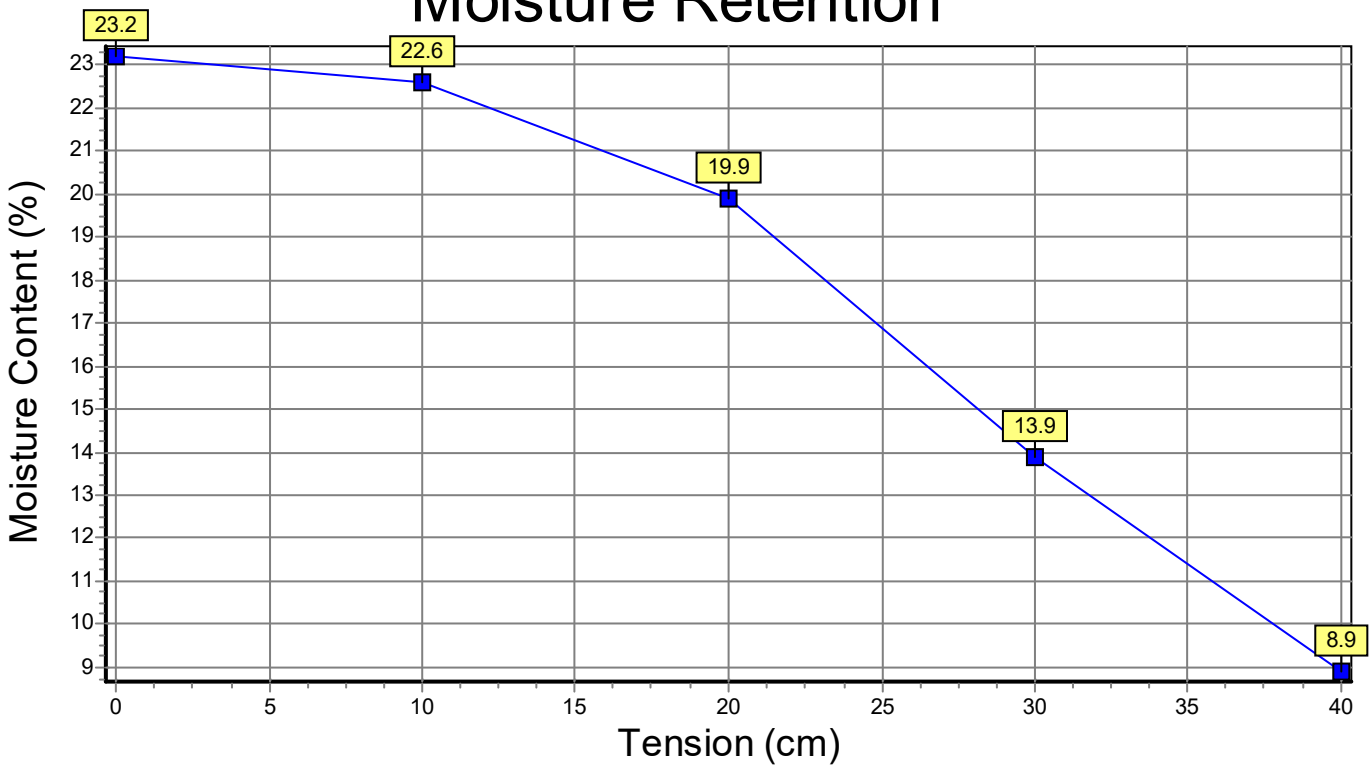
Lab Number: 2363
Sample Description: WCS&G
STRAIGHT SAND

Pore Spaces



Moisture Retention



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Date Received/Started : 10/12/2022
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Date Issued: 10/20/2022

Submitted By: Soil and Water Consulting

Lab Number		2364
Sample Description		WCS&G 90/10 GREENS-MIX
Sample Condition	XX Normal	___ Other (see comments)

Method References

ASTM D5550
ASTM F1632
ASTM F1647 - Method A
ASTM F1815

D Values

** D10: 0.20
** D60: 0.62
** Coefficient of Uniformity: 3.11

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CAPPING CHARACTERISTICS

Dragon Ridge C.C.
Henderson, NV

File Number : 47746
** Date of Analysis **
Start Date : 10/12/2022
Completed : 10/20/2022

Submitted By: Soil and Water Consulting Reviewed by: _____

Lab Number	2364
Sample Description	WCS&G
	90/10
	GREENS-MIX

Particle Size Analysis

Clay <.002mm	%	0.7
Silt .002mm - .05mm	%	1.7
Sand .05mm - 2.00mm	%	97.1
Gravel > 2.0mm	%	0.5

Org Mat 360 deg C (LOI)	0.49

Sand Fractions

Sieve Size #	mm		% Retained
10 -	2.0	Fine Gravel	0.5
18 -	1.0	Very Coarse Sand	9.6
35 -	.500	Coarse Sand	39.2
60 -	.250	Medium Sand	36.0
100 -	.150	Fine Sand	9.2
140 -	.106	Very Fine Sand	2.3
270 -	.053	Very Fine Sand	0.8

Soil Moisture Measurements

Saturated Conductivity in/hr	6.9

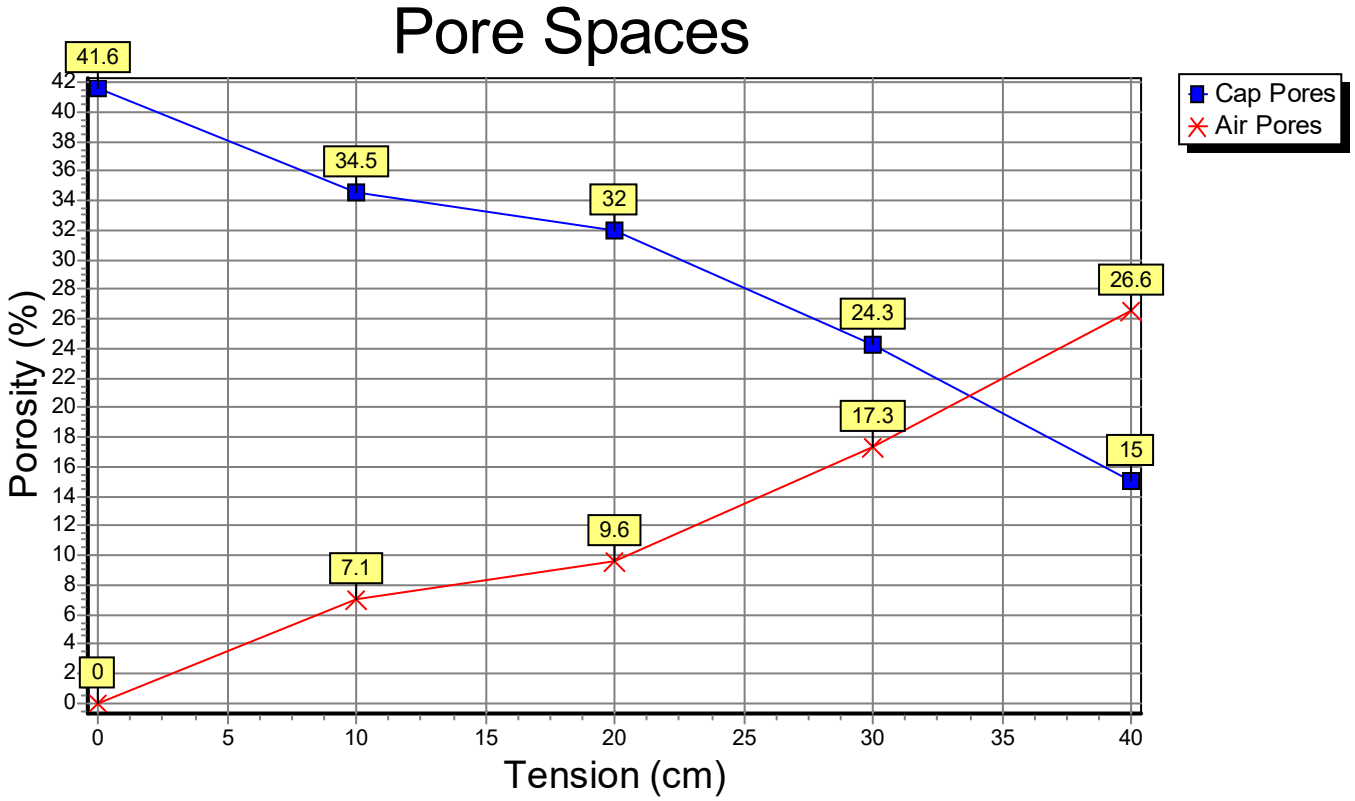
Soil Density

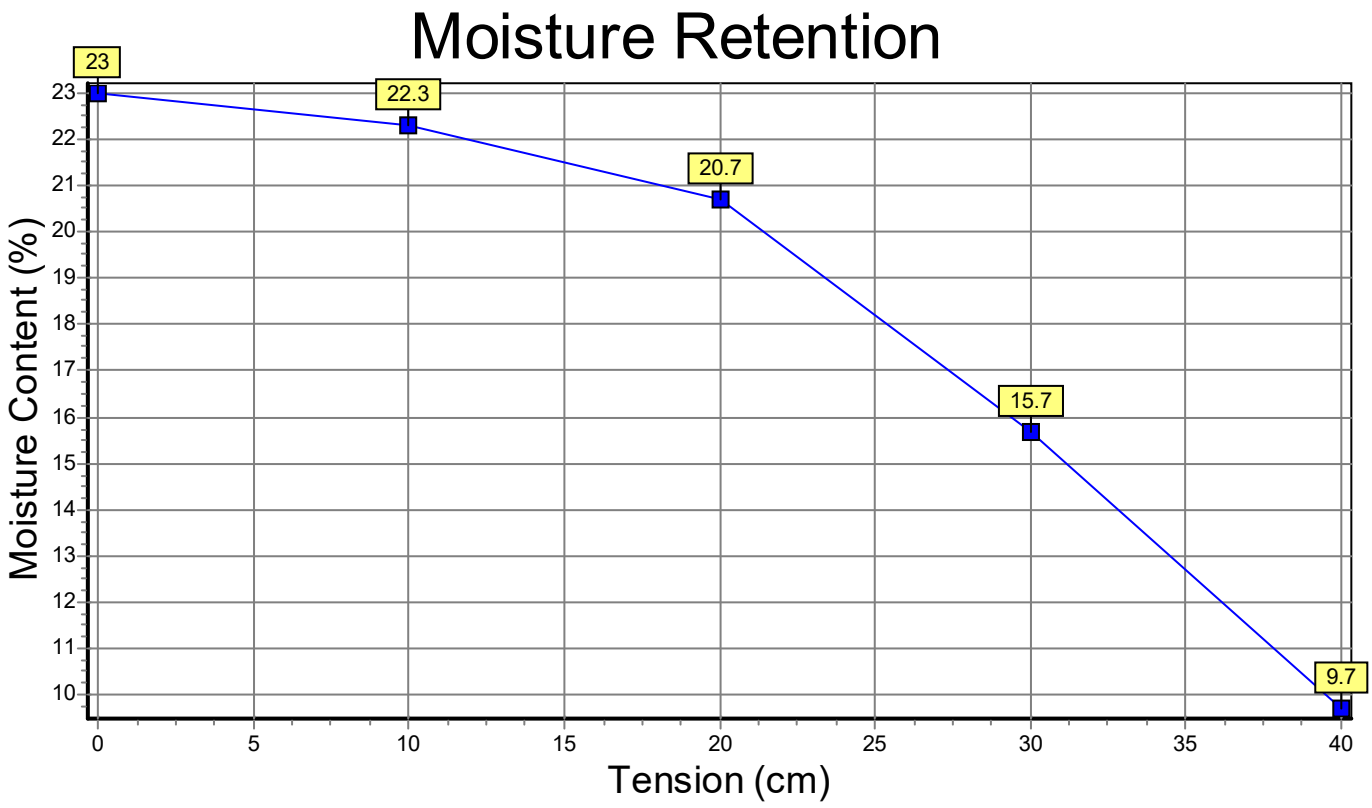
Bulk Density	g/cc	1.55
Particle Density	g/cc	2.65

*MOISTURE RETENTION %

		*PORE SPACE %		
		TOTAL	CAPILLARY	AIR FILLED
SATURATION	23.0	41.6	41.6	0.0
10 CM	22.3	41.6	34.5	7.1
20 CM	20.7	41.6	32.0	9.6
30 CM	15.7	41.6	24.3	17.3
40 CM	9.7	41.6	15.0	26.6

File Number:	47746	Lab Number:	2364
Client Name:	Dragon Ridge C.C.	Sample Description:	WCS&G
Submitted By:	Soil and Water Consulting		90/10
Start Date:	10/12/2022		GREENS-MIX
Completed:	10/20/2022		





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Date Issued: 10/20/2022

Submitted By: Soil and Water Consulting

Lab Number				2365
Sample Description				WCS&G 80/20 LAB MIX
Sample Condition	XX	Normal	___	Other (see comments)

Method References

ASTM D5550
ASTM F1632
ASTM F1647 - Method A
ASTM F1815

D Values

** D10: 0.18
** D60: 0.56
** Coefficient of Uniformity: 3.07

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*Reported values are an average of duplicated analysis
*Lab Mix

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CAPPING CHARACTERISTICS

Dragon Ridge C.C.
Henderson, NV

File Number : 47746
** Date of Analysis **
Start Date : 10/12/2022
Completed : 10/20/2022

Submitted By: Soil and Water Consulting Reviewed by: _____

Lab Number	2365
Sample Description	WCS&G
	80/20
	LAB MIX

Particle Size Analysis

Clay <.002mm	%	0.7
Silt .002mm - .05mm	%	2.2
Sand .05mm - 2.00mm	%	95.4
Gravel > 2.0mm	%	1.7

Org Mat 360 deg C (LOI)	3.96

Sand Fractions

Sieve Size #	mm		% Retained
10 -	2.0	Fine Gravel	1.7
18 -	1.0	Very Coarse Sand	7.6
35 -	.500	Coarse Sand	34.7
60 -	.250	Medium Sand	38.2
100 -	.150	Fine Sand	11.4
140 -	.106	Very Fine Sand	2.5
270 -	.053	Very Fine Sand	1.0

Soil Moisture Measurements

Saturated Conductivity in/hr	7.3

Soil Density

Bulk Density	g/cc	1.36
Particle Density	g/cc	2.55

*MOISTURE RETENTION %

		*PORE SPACE %		
		TOTAL	CAPILLARY	AIR FILLED
SATURATION	36.3	46.9	46.9	0.0
10 CM	34.4	46.9	46.5	0.3
20 CM	33.6	46.9	45.5	1.4
30 CM	29.2	46.9	39.6	7.3
40 CM	25.0	46.9	33.8	13.0

File Number:	47746	Lab Number:	2365
Client Name:	Dragon Ridge C.C.	Sample Description:	WCS&G
Submitted By:	Soil and Water Consulting		80/20
Start Date:	10/12/2022		LAB MIX
Completed:	10/20/2022