



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

**** PHYSICAL ANALYSIS REPORT ****

Tucson Country Club
2950 N. Camino Principal
Tucson, AZ 85715

File Number: 34998

Date Received/Started : 1/28/2019
Date Completed/Reported: 1/30/2019

Submitted By: Soil and Water Consulting

Lab Number	0040
Sample Description	GREEN 1 0-3"
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.14
** D60: 0.46
** Coefficient of Uniformity: 3.25

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* *These results represent the sample submitted only.*

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Lab Number	0040
Sample Description	GREEN 1
	0-3"

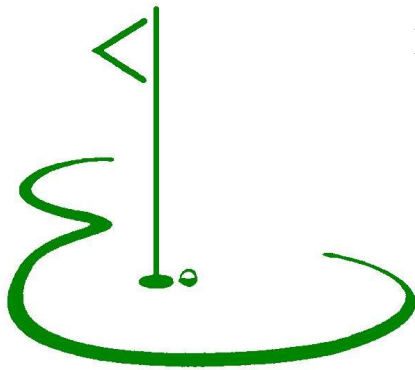
Particle Size Analysis

Clay	<.002mm	%	2.30
Silt	.002mm - .05mm	%	3.20
Sand	.05mm - 2.00mm	%	94.3
Gravel	> 2.0mm	%	0.2

Org Mat 360 deg C (LOI)	1.32
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Sand Fractions

Sieve Size			<u>% Retained</u>
#	mm		
10 -	2.0	Fine Gravel	0.2
18 -	1.0	Very Coarse Sand	4.9
35 -	.500	Coarse Sand	27.7
60 -	.250	Medium Sand	43.6
100 -	.150	Fine Sand	12.8
140 -	.106	Very Fine Sand	3.9
270 -	.053	Very Fine Sand	1.4



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File Number: 34998

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Submitted By: Soil and Water Consulting

Lab Number	0041
Sample Description	GREEN 1 BELOW 3"
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.16
** D60: 0.49
** Coefficient of Uniformity: 3.07

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Submitted By: Soil and Water Consulting

Lab Number	0041
Sample Description	GREEN 1 BELOW 3"

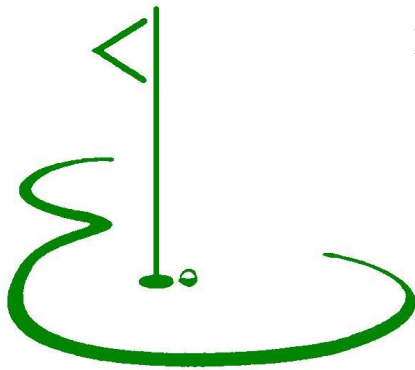
Particle Size Analysis

Clay	<.002mm	%	2.30
Silt	.002mm - .05mm	%	1.90
Sand	.05mm - 2.00mm	%	95.7
Gravel	> 2.0mm	%	0.1

Org Mat 360 deg C (LOI)	0.31
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Sand Fractions

Sieve Size			<u>% Retained</u>
#	mm		
10 -	2.0	Fine Gravel	0.1
18 -	1.0	Very Coarse Sand	5.1
35 -	.500	Coarse Sand	32.8
60 -	.250	Medium Sand	41.8
100 -	.150	Fine Sand	11.2
140 -	.106	Very Fine Sand	3.3
270 -	.053	Very Fine Sand	1.5



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File Number: 34998

Date Received/Started : 1/28/2019
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Submitted By: Soil and Water Consulting

Lab Number	0042
Sample Description	GREEN 14 0-2.5"
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.14
** D60: 0.47
** Coefficient of Uniformity: 3.40

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File Number : 34998
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Start Date : 1/28/2019
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Submitted By: Soil and Water Consulting

Lab Number 0042
Sample Description GREEN 14
0-2.5"

Particle Size Analysis

Clay	<.002mm	%	2.20
Silt	.002mm - .05mm	%	3.60
Sand	.05mm - 2.00mm	%	93.9
Gravel	> 2.0mm	%	0.3

Org Mat 360 deg C (LOI) 1.39

Sand Fractions

Sieve Size		% Retained
#	mm	
10 - 2.0	Fine Gravel	0.3
18 - 1.0	Very Coarse Sand	5.5
35 - .500	Coarse Sand	29.1
60 - .250	Medium Sand	41.3
100 - .150	Fine Sand	12.8
140 - .106	Very Fine Sand	3.6
270 - .053	Very Fine Sand	1.6



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Date Received/Started : 1/28/2019
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Submitted By: Soil and Water Consulting

Lab Number	0043
Sample Description	GREEN 14 BELOW 2.5"
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.16
** D60: 0.50
** Coefficient of Uniformity: 3.11

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Submitted By: Soil and Water Consulting

Lab Number	0043
Sample Description	GREEN 14
	BELOW
	2.5"

Particle Size Analysis

Clay	<.002mm	%	3.20
Silt	.002mm - .05mm	%	1.00
Sand	.05mm - 2.00mm	%	95.6
Gravel	> 2.0mm	%	0.2

Org Mat 360 deg C (LOI)	0.19
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Sand Fractions

Sieve Size			% Retained
#	mm		
10 -	2.0	Fine Gravel	0.2
18 -	1.0	Very Coarse Sand	5.6
35 -	.500	Coarse Sand	33.9
60 -	.250	Medium Sand	39.8
100 -	.150	Fine Sand	11.7
140 -	.106	Very Fine Sand	3.2
270 -	.053	Very Fine Sand	1.4
