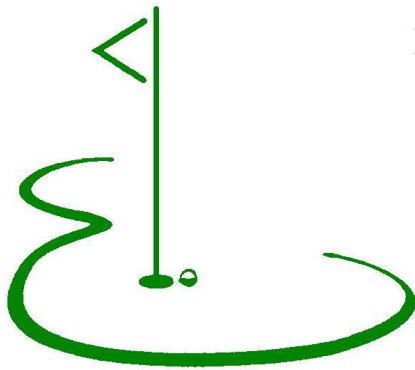




BROOKSIDE LABORATORIES, INC.
GEOTECHNICAL DIVISION
200 WHITE MOUNTAIN DRIVE
NEW BREMEN, OH 45869

**** PHYSICAL ANALYSIS REPORT ****

Anthem Country Club
Phoenix, AZ

File Number: 85330

Date Received/Started : 3/21/2022
Date Completed/Reported: 3/23/2022
Date Issued: 3/23/2022

Submitted By: Soil and Water Consulting

Lab Number	0001
Sample Description	IRONWOOD G18 0-1.5"
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.05
** D60: 0.49
** Coefficient of Uniformity: 9.82

** NON A2LA ACCREDITED
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* *These results represent the sample submitted only.*

**** PHYSICAL ANALYSIS REPORT ****

Anthem Country Club
Phoenix, AZ

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** Date of Analysis **
Start Date : 3/21/2022
Completed : 3/23/2022

Submitted By: Soil and Water Consulting

Lab Number 0001
Sample Description IRONWOOD G18
0-1.5"

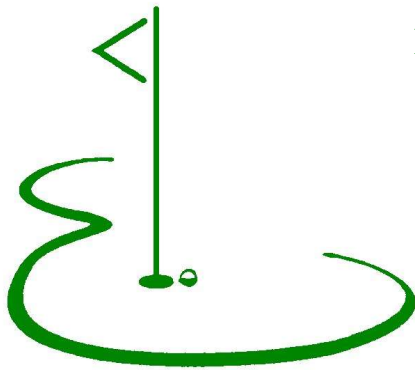
Particle Size Analysis

Clay	<.002mm	%	0.20
Silt	.002mm - .05mm	%	9.80
Sand	.05mm - 2.00mm	%	87.6
Gravel	> 2.0mm	%	2.4

Org Mat 360 deg C (LOI)	18.38
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Sand Fractions

Sieve Size			% Retained
#	mm		
10 -	2.0	Fine Gravel	2.4
18 -	1.0	Very Coarse Sand	6.3
35 -	.500	Coarse Sand	30.0
60 -	.250	Medium Sand	38.3
100 -	.150	Fine Sand	9.7
140 -	.106	Very Fine Sand	2.6
270 -	.053	Very Fine Sand	0.8



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Submitted By: Soil and Water Consulting

Lab Number	0002
Sample Description	IRONWOOD G18 1.5"-BEL
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.18
** D60: 0.51
** Coefficient of Uniformity: 2.82

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Anthem Country Club
Phoenix, AZ

File Number : 85330
** Date of Analysis **
Start Date : 3/21/2022
Completed : 3/23/2022

Submitted By: Soil and Water Consulting

Lab Number 0002
Sample Description IRONWOOD G18
1.5"-BEL

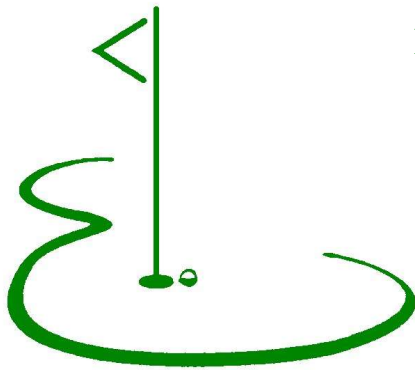
Particle Size Analysis

Clay	<.002mm	%	0.20
Silt	.002mm - .05mm	%	2.20
Sand	.05mm - 2.00mm	%	97.5
Gravel	> 2.0mm	%	0.1

Org Mat 360 deg C (LOI)	0.54
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Sand Fractions

Sieve Size			% Retained
#	mm		
10 -	2.0	Fine Gravel	0.1
18 -	1.0	Very Coarse Sand	5.9
35 -	.500	Coarse Sand	34.3
60 -	.250	Medium Sand	41.7
100 -	.150	Fine Sand	11.1
140 -	.106	Very Fine Sand	3.3
270 -	.053	Very Fine Sand	1.0



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Date Received/Started : 3/21/2022
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Submitted By: Soil and Water Consulting

Lab Number	0003
Sample Description	PERSIMMON G4 0-3"
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.05
** D60: 0.46
** Coefficient of Uniformity: 9.20

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Anthem Country Club
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File Number : 85330
** Date of Analysis **
Start Date : 3/21/2022
Completed : 3/23/2022

Submitted By: Soil and Water Consulting

Lab Number 0003
Sample Description PERSIMMON G4
0-3"

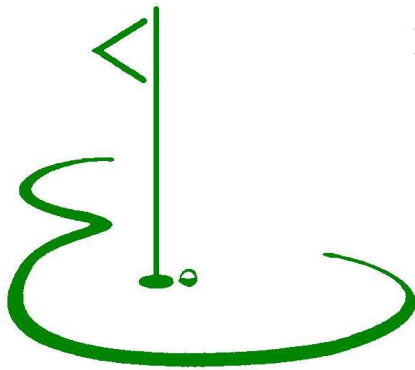
Particle Size Analysis

Clay	<.002mm	%	1.20
Silt	.002mm - .05mm	%	12.20
Sand	.05mm - 2.00mm	%	85.3
Gravel	> 2.0mm	%	1.3

Org Mat 360 deg C (LOI)	12.77
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Sand Fractions

Sieve Size			% Retained
#	mm		
10 -	2.0	Fine Gravel	1.3
18 -	1.0	Very Coarse Sand	5.1
35 -	.500	Coarse Sand	28.0
60 -	.250	Medium Sand	35.0
100 -	.150	Fine Sand	13.3
140 -	.106	Very Fine Sand	2.6
270 -	.053	Very Fine Sand	1.3



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Date Received/Started : 3/21/2022
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Submitted By: Soil and Water Consulting

Lab Number	0004
Sample Description	PERSIMMON G4 3"-BEL
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.15
** D60: 0.59
** Coefficient of Uniformity: 3.90

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Anthem Country Club
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File Number : 85330
** Date of Analysis **
Start Date : 3/21/2022
Completed : 3/23/2022

Submitted By: Soil and Water Consulting

Lab Number 0004
Sample Description PERSIMMON G4
3"-BEL

Particle Size Analysis

Clay	<.002mm	%	1.20
Silt	.002mm - .05mm	%	3.80
Sand	.05mm - 2.00mm	%	95.0
Gravel	> 2.0mm	%	0.0

Org Mat 360 deg C (LOI)	1.07
-------------------------	------

Sand Fractions

Sieve Size			% Retained
#	mm		
10 -	2.0	Fine Gravel	0.0
18 -	1.0	Very Coarse Sand	8.9
35 -	.500	Coarse Sand	38.0
60 -	.250	Medium Sand	33.4
100 -	.150	Fine Sand	9.7
140 -	.106	Very Fine Sand	3.2
270 -	.053	Very Fine Sand	1.6
