



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

**** PHYSICAL ANALYSIS REPORT ****

Brightview Golf Maintenance
Glendora, CA

File Number: 87359

Date Received/Started : 2/13/2023
Date Completed/Reported: 2/17/2023
Date Issued: 2/17/2023

Submitted By: Soil and Water Consulting

Lab Number	0029
Sample Description	PALACIO DEL MAR GC GREEN 2 0-1/2"
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.09
** D60: 0.60
** Coefficient of Uniformity: 6.87

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

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File Number : 87359
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Lab Number 0029
Sample Description PALACIO DEL MAR GC
GREEN 2
0-1/2"

Particle Size Analysis

Clay <.002mm	%	1.00
Silt .002mm - .05mm	%	8.60
Sand .05mm - 2.00mm	%	90.1
Gravel > 2.0mm	%	0.3

Org Mat 360 deg C (LOI) 3.02

Sand Fractions

Sieve Size		<u>% Retained</u>
#	mm	
10 - 2.0	Fine Gravel	0.3
18 - 1.0	Very Coarse Sand	12.6
35 - .500	Coarse Sand	33.9
60 - .250	Medium Sand	37.7
100 - .150	Fine Sand	4.3
140 - .106	Very Fine Sand	1.0
270 - .053	Very Fine Sand	0.6



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Lab Number	0030
Sample Description	PALACIO DEL MAR GC GREEN 2 1 1/2"-3
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.25
** D60: 0.79
** Coefficient of Uniformity: 3.11

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Lab Number 0030
Sample Description PALACIO DEL MAR GC
GREEN 2
1 1/2"-3

Particle Size Analysis

Clay <.002mm	%	0.80
Silt .002mm - .05mm	%	3.40
Sand .05mm - 2.00mm	%	95.5
Gravel > 2.0mm	%	0.3

Org Mat 360 deg C (LOI) 1.41

Sand Fractions

Sieve Size		% Retained
#	mm	
10 - 2.0	Fine Gravel	0.3
18 - 1.0	Very Coarse Sand	21.2
35 - .500	Coarse Sand	43.2
60 - .250	Medium Sand	25.5
100 - .150	Fine Sand	3.5
140 - .106	Very Fine Sand	1.3
270 - .053	Very Fine Sand	0.7



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Submitted By: Soil and Water Consulting

Lab Number	0031
Sample Description	PALACIO DEL MAR GC GREEN 2 1/2"-1 1
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.20
** D60: 0.50
** Coefficient of Uniformity: 2.56

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Brightview Golf Maintenance
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Submitted By: Soil and Water Consulting

Lab Number 0031
Sample Description PALACIO DEL MAR GC
GREEN 2
1/2"-1 1

Particle Size Analysis

Clay <.002mm	%	0.90
Silt .002mm - .05mm	%	4.00
Sand .05mm - 2.00mm	%	94.5
Gravel > 2.0mm	%	0.6

Org Mat 360 deg C (LOI) 2.97

Sand Fractions

Sieve Size		% Retained
#	mm	
10 - 2.0	Fine Gravel	0.6
18 - 1.0	Very Coarse Sand	8.2
35 - .500	Coarse Sand	31.2
60 - .250	Medium Sand	46.3
100 - .150	Fine Sand	6.7
140 - .106	Very Fine Sand	1.2
270 - .053	Very Fine Sand	0.8