

BIOSOLUTIONS, LLC.

Cleaner water through applied chemistry and biology

10180 QUEENS WAY #6 • CHAGRIN FALLS, OH • 44023 PHONE: 440-708-2999 • FAX: 440-708-2988

Lab Analysis Report

AquaMark
Jane Rice
P.O. Box 773
Chesterland, OH 44026

Project: Brasher Creek
Date Received: 6/3/2015
Date Complete: 6/5/2015
Date Reported: 6/5/2015

Test	Method	Result	Units	Date	Analyst
32151-01	6/3/2015 8:30:00 AM	Brasher Creek			
		Raw			
Solids, Total					
Solids, Total	SM 2540B	55.57	%	6/5/2015	JD
32151-02	6/3/2015 8:45:00 AM	Brasher Creek			
		AQ590 @ 70 ppm			
Solids, Total					
Solids, Total	SM 2540B	60.75	%	6/5/2015	JD
32151-03	6/3/2015 8:50:00 AM	Brasher Creek			
		AQ587 @ 70 ppm			
Solids, Total					
Solids, Total	SM 2540B	66.99	%	6/5/2015	JD
32151-04	6/3/2015 9:00:00 AM	Brasher Creek			
		AQ 584 @ 70 ppm			
Solids, Total					
Solids, Total	SM 2540B	63.74	%	6/5/2015	JD

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Test	Method	Result	Units	Date	Analyst
32151-04	6/3/2015 9:00:00 AM	Brasher Creek			
		AQ 584 @ 70 ppm			

Approved By: _____



Product Description

Maccaferri MacTube[®] OS400 is composed of high-tenacity polypropylene (PP) yarns, which are woven into a network in such a manner that the yarns retain their relative position to each other for the high demands required for geotextile tubes utilized in marine applications. MacTube[®] OS400 is inert to biological degradation and resistant to most naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Units	Minimum Average Roll Values (MARV)
Tensile Strength (@ ultimate) / Elongation MD*	ASTM D4595	lbs/in (kN/m) %	400 (70) / 20
Tensile Strength (@ ultimate) / Elongation CMD**	ASTM D4595	lbs/in (kN/m) %	575 (100) / 10
Flow Rate	ASTM D4491	gal/min/ft ² (l/m/m ²)	20 (813)
Apparent Opening Size (AOS)	ASTM D4751	US Sieve (mm)	40 (.425)
UV Resistance (@ 500 hrs)	ASTM D4355	% Strength Retained	80
Factory Seam Strength	ASTM D4884	lbs/in (kN/m)	400 (70)
Mass	ASTM D5261	oz/sy (g/m ²)	16 (542)
Fabric Weave Style	—	—	Rip-resistant
Color	—	—	Sand

*Machine Direction (MD)

**Cross Machine Direction (CMD)

Note: Minimum average roll values represent a 97.5% confidence level, calculated as the mean minus two standard deviations. Fifty percent of test values will exceed the typical value listed above.

Maccaferri reserves the right to amend product specifications without notice and specifiers are requested to check as to the validity of the specifications they are using.