SUSTÅNE[®] FOUNDATION[™] BIOTIC SOIL AMENDMENT TRIALS, TESTING, AND RESULTS

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Below is the test report for Sustane FOUNDATION (Biotic Soil Amendment) utilizing ASTM-D7322 standard test method for determination of Erosion Control Product (ECP) ability to encourage seed germination and plant growth under bench-scale conditions. [American Society for Testing and Materials]

The ASTM D7322 test* is a comparison between the percent improvement of the product to both the concurrent control, (bare soil) experiment run simultaneously with the product, and a historical average control which is the average value of all bare soil test results over the previous six-year period. Bare soil control is inherently variable in terms of bio mass produced, so comparing performance to a historical average is an attempt to mitigate the inherent variability in the test. As validated by ASTM D7322 Sustane FOUNDATION™ performed exceptionally well in both analyses, but especially well when compared against the concurrent bare soil control.

STA	_	INDEX	Germi TEST METHOD	nation & Ve	getation Gro	wth ASTM CP (Hydraulical	TEST SUMM D7322 Iy Applied Erosio PLANT GROWT	n Control Prod	uct)
Property	Units	Day	Concurrent Control Count	2015-2020 Ave. Control Count	FOUNDATION vs. Concurrent Control Count	Concurrent Control Percent	FOUNDATION vs. % of Conc. Control	2015-2020 Ave. Control Percent	FOUNDATION vs. 2015-2020 Control Percent
Seeds Germinated per Area	No. per 4 sq. in.	0	0.00	0.00	0.00	0%	0%	0%	0%
		7	0.22	1.59	6.44	100%	2900%	100%	405%
		14	1.89	8.39	17.11	100%	906%	100%	204%
		21	1.89	10.37	17.78	100%	941 %	100%	172%
Average Plant Height	inches	7	0.67	0.62	0.89	100%	134%	100%	144%
		14	1.16	1.39	2.71	100%	233%	100%	195%
		21	1.99	2.15	3.76	100%	189 %	100%	175%
Plant Mass per Area	mg. per 4 sq. in.	21	5.80	17.26	71.52	100%	1233%	100%	414%

Denver Downs Research Facility Texas Research International, Inc. - Environmental Division

*Scope

1.1 This test method evaluates the effect of Erosion Control Products (ECPs) on seed germination and vegetation enhancement.

1.2 This test method evaluated the effects of FOUNDATION[™] (BSM), a hydraulically-applied erosion control product (HECP) on seed germination in a controlled environment.