

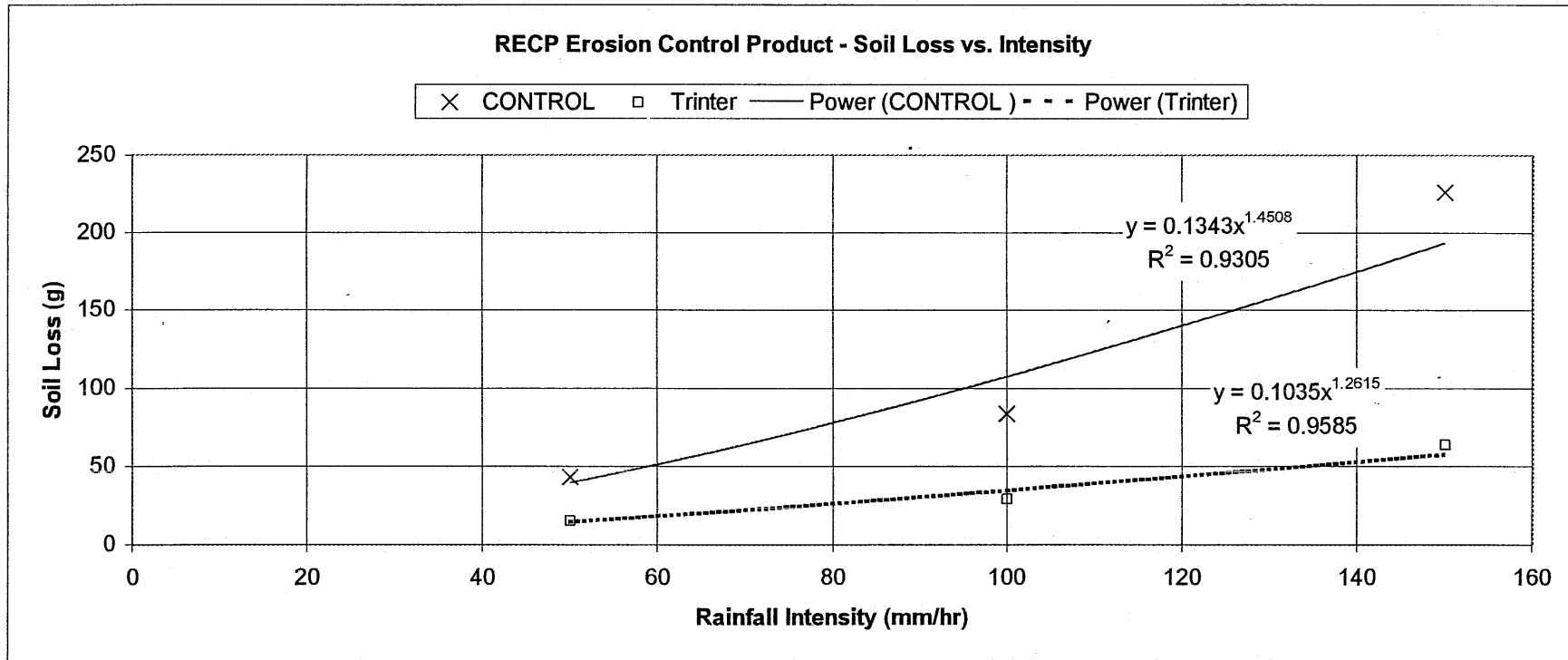
Erosion Control Product Testing Summary

ECTC Test Method #2:

STANDARD INDEX TEST METHOD FOR the DETERMINATION of UNVEGETATED ROLLED EROSION CONTROL PRODUCT (RECP)
ABILITY TO PROTECT SOIL FROM RAIN SPLASH AND ASSOCIATED RUNOFF UNDER BENCH-SCALE CONDITIONS

3:1 Slope Surface Condition	Raw Soil Loss Data (g)			Soil Loss Ratio* Based on Raw Data			Regression Curve Fitting		Calculated Soil Loss Based on Regression (g)			Soil Loss Ratio* Based on Regression		
	Rain Intensity, mm/hr			Rain Intensity, mm/hr					Rain Intensity, mm/hr			Rain Intensity, mm/hr		
	50	100	150	50	100	150			50	100	150	50	100	150
CONTROL	43	83.3	226.1				0.1343	1.4508	39.2	107.1	192.8			
Trinter	15.3	29.2	63.9	2.81	2.85	3.54	0.1035	1.2615	14.4	34.5	57.6	2.72	3.10	3.35
C-Factor				0.36	0.35	0.28						0.37	0.32	0.30

* soil loss ratio = soil loss of unprotected surface (i.e. control) divided by soil loss with protected surface = 1 / C-Factor



RECP Slope Simulation Test

Client: Intermas

TRI Log # E2177-49-05

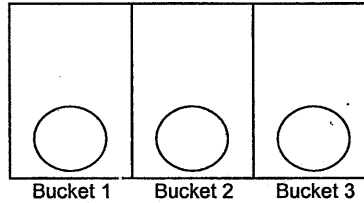
Sample ID: Trinter

Slope = 3 TO 1

2 in/hr rainfall

Buckets weighed and volume measured every 5 min

Test duration: 30 min



Mass/Area (osy)

Soil only

Bucket No.	Time(min)	5		10		15		20		25		30	
		Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)
1			8.7		8.02		7.28		6.53		5.38		7.69
2			10.39		8.28		8.06		8.63		5.69		4.92
3			8.37		7.38		6.54		6.8		4.6		5.86
Average			9.2		7.9		7.3		7.3		5.2		6.2

Bucket No.	Time(min)	5		10		15		20		25		30	
		Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Total Soil Loss(g)	Average Soil Loss(g)
Cumulative soil loss	1	8.7		16.72		24		30.53		35.91		43.6	
	2	10.39	9.2	18.67	17.0	26.73	24.3	35.36	31.7	41.05	36.9	45.97	43.0
	3	8.37		15.75		22.29		29.09		33.69		39.55	

RECP over Soil

Bucket No.	Time(min)	5		10		15		20		25		30	
		Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)
1			2.86		3.16		3.23		1.38		2.55		1.99
2			3.11		2.61		0.82		2.76		2.48		1.93
3			3.66		2.55		2.74		2.61		2.81		2.79
Average			3.2		2.8		2.3		2.3		2.6		2.2

Bucket No.	Time(min)	5		10		15		20		25		30	
		Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Total Soil Loss(g)	Average Soil Loss(g)
Cumulative soil loss	1	2.86		6.02		9.25		10.63		13.18		15.17	
	2	3.11	3.2	5.72	6.0	6.54	8.2	9.3	10.5	11.78	13.1	13.71	15.3
	3	3.66		6.21		8.95		11.56		14.37		17.16	

c factor 0.36

RECP Slope Simulation Test

Client: Intermas

TRI Log # E2177-49-05

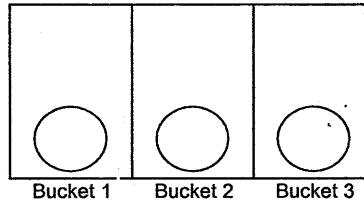
Sample ID: Trinter

Slope = 3 TO 1

4 in/hr rainfall

Buckets weighed and volume measured every 5 min

Test duration: 30 min



Mass/Area (osy)

Soil only

Bucket No.	Time(min)	5		10		15		20		25		30	
		Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)
1			9.36		10.66		10.15		9.98		10.79		8.52
2			23.17		19.06		16.6		20.04		22.4		15.78
3			10.98		14.39		12.76		13.32		13.62		8.34
Average			14.5		14.7		13.2		14.4		15.6		10.9

Bucket No.	Time(min)	5		10		15		20		25		Total	Average
		Mass	Average	Mass	Average	Mass	Average	Mass	Average	Mass	Average		
Cumulative													
soil loss	1	9.36		20.02		30.17		40.15		50.94		59.46	
	2	23.17	14.5	42.23	29.2	58.83	42.4	78.87	56.8	101.27	72.4	117.05	83.3
	3	10.98		25.37		38.13		51.45		65.07		73.41	

RECP over Soil

Bucket No.	Time(min)	5		10		15		20		25		30	
		Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)
1			2.67		4.48		5.65		5.17		4.73		5.31
2			3.25		5.33		5.94		5.51		4.69		3.29
3			3.76		5.08		5.99		5.55		6.24		4.86
Average			3.2		5.0		5.9		5.4		5.2		4.5

Bucket No.	Time(min)	5		10		15		20		25		Total	Average
		Mass	Average	Mass	Average	Mass	Average	Mass	Average	Mass	Average		
Cumulative													
soil loss	1	2.67		7.15		12.8		17.97		22.7		28.01	
	2	3.25	3.2	8.58	8.2	14.52	14.1	20.03	19.5	24.72	24.7	28.01	29.2
	3	3.76		8.84		14.83		20.38		26.62		31.48	

c factor 0.35

RECP Slope Simulation Test

Client: Intermas

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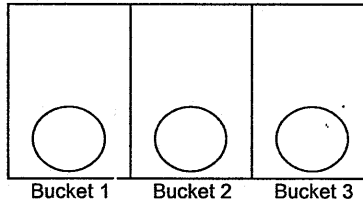
Sample ID: Trinter

Slope = 3 TO 1

6 in/hr rainfall

Buckets weighed and volume measured every 5 min

Test duration: 30 min



Mass/Area (osy)

Soil only

Bucket No.	Time(min)	5		10		15		20		25		30	
		Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)
1			27.27		29.83		28.75		26.65		27.41		20.28
2			63.91		55.43		57.56		53.63		50.64		49.51
3			32.76		32.34		33.29		36.36		28.3		24.26
Average			41.3		39.2		39.9		38.9		35.5		31.4

Bucket No.	Time(min)	5		10		15		20		25		30	
		Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Total Soil Loss(g)	Average Soil Loss(g)
1		27.27		57.1		85.85		112.5		139.91		160.19	
2		63.91	41.3	119.34	80.5	176.9	120.4	230.53	159.3	281.17	194.7	330.68	226.1
3		32.76		65.1		98.39		134.75		163.05		187.31	

RECP over Soil

Bucket No.	Time(min)	5		10		15		20		25		30	
		Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)	Pan #	Mass(g)
1			11.64		11.94		10.4		10.51		8.11		9.44
2			12.14		10.58		8.48		8.45		6.94		8.28
3			17.31		13.81		13.98		11.11		10.34		8.36
Average			13.7		12.1		11.0		10.0		8.5		8.7

Bucket No.	Time(min)	5		10		15		20		25		30	
		Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Mass Soil Loss(g)	Average Soil Loss(g)	Total Soil Loss(g)	Average Soil Loss(g)
1		11.64		23.58		33.98		44.49		52.6		62.04	
2		12.14	13.7	22.72	25.8	31.2	36.8	39.65	46.8	46.59	55.2	54.87	63.9
3		17.31		31.12		45.1		56.21		66.55		74.91	

c factor 0.28