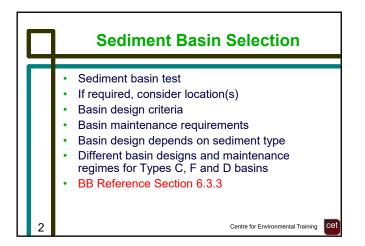
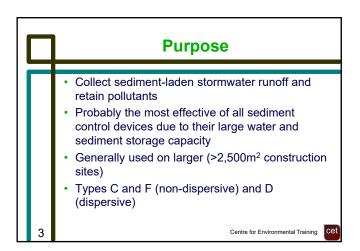
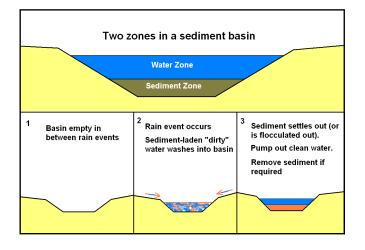
What's in the "Blue Book"?

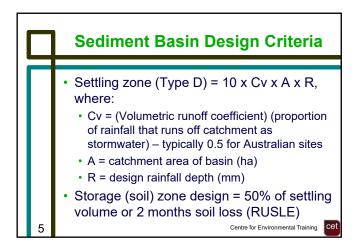
 Sediment Basin and Channel Design





cei



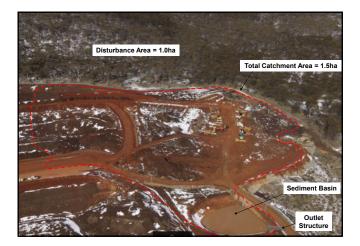


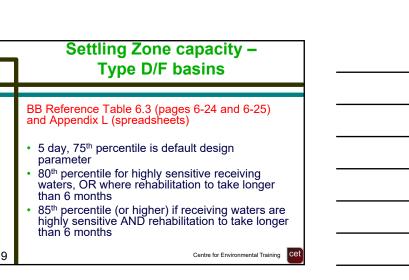




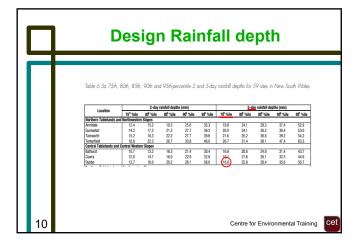


	Mine Site problem
7	 Construction of an equipment storage and maintenance hardstand at Dubbo site Total Catchment Area = 1.5ha Disturbance Area = 1.0ha (200m x 50m) R (2,000) K (0.045) P (1.3) C (1.0) Average annual soil loss = 240 t/ha/year Average slope = 8% (13:1) 80m Sediment type = 'D' (dispersible) Hydrologic group = C (fine clay)

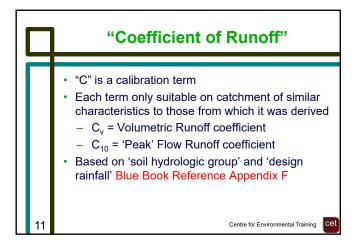








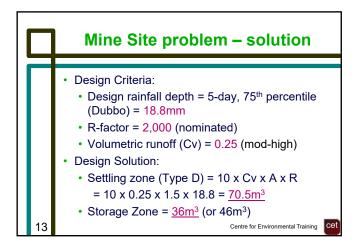


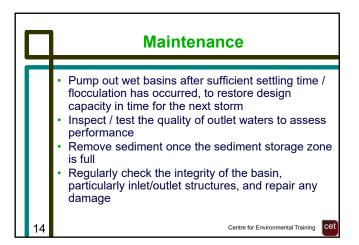


	"("Coefficient of Runoff"							
	e F2. Rund pted from U			for volu	umetric c	lata in	disturbe	d catchments	
So		Design Rainfall depth (mm)						Runoff	
Hydro Gro		21-25	26-30	31-40	41-50	51-60	61-80	potential	
A	0.01	0.05	0.08	0.15	0.22	0.28	0.37	very low	
В	0.10	0.19	0.25	0.34	0.42	0.48	0.57	low to moderate	
С	0.25	0.35	0.42	0.51	0.58	0.63	0.70	moderate to high	
	0.39	0.50	0.56	0.64	0.69	0.74	0.79	high	

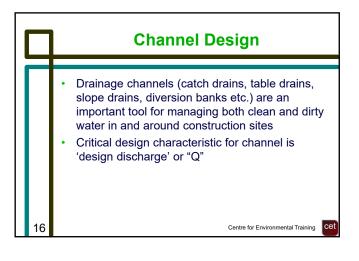


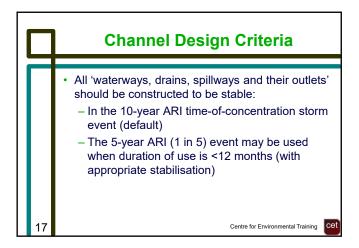


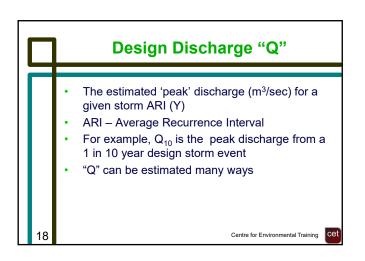






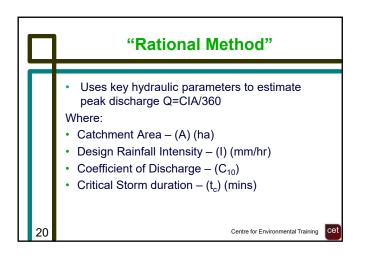


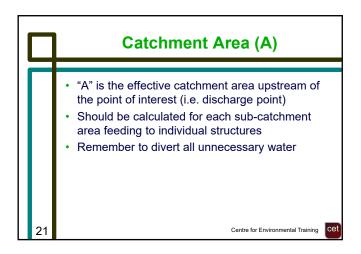




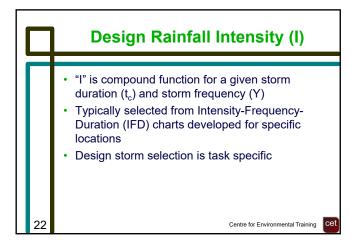


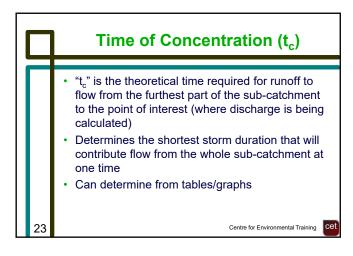
	Design Methods
	 Complex numerical models: DRAINS RORB RAFTS The 'Rational Method' – simple empirical formula, 50-200% of real values, but tends to overestimate. OK for temporary structures
19	Centre for Environmental Training Cet

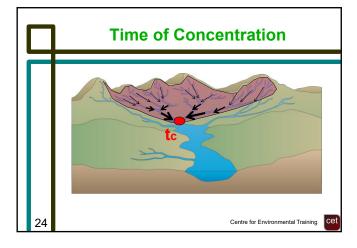




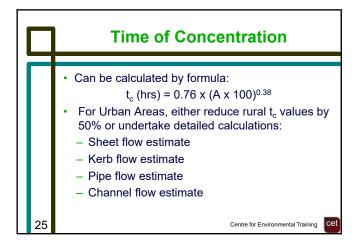


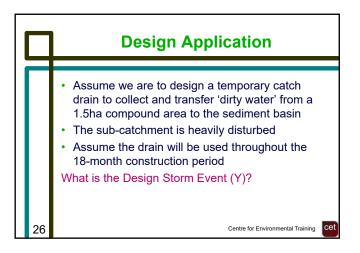








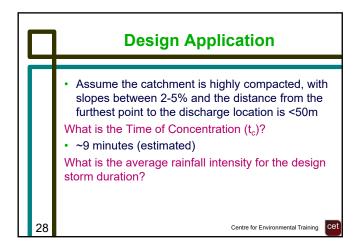


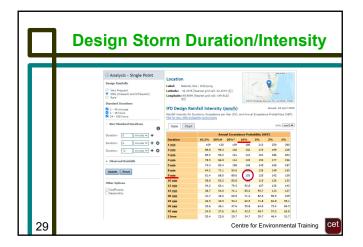


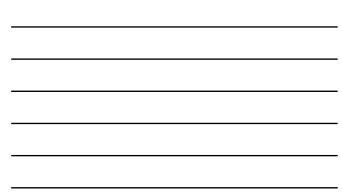
	Des	ign Stor	m Event	(Y)
Γ	 "Y" is a fictit frequency a Selection ba the structure 	nd duration ased on the e		, ,
	Drainage	Des	ign Life (mon	ths)
	Structure	<12	12-24	>24
	Catch drains, flow diversion berms etc.	1 in 5 year	1 in 10 year	1 in 10 year
27			Centre for En	vironmental Training











	Coefficient of Discharge							
	Soil Hydrologic Group	Rainfall intensity (mm) in the design storm					Runoff	
		<20	21-40	41-60	61-80	81-100	>100	potential
	Α	0.20	0.37	0.55	0.64	0.68	0.75	very low
	В	0.46	0.58	0.70	0.75	0.78	0.82	law to moderate
	С	0.69	0.76	0.83	0.85	0.86	0.88	moderate to high
	D	0.80	0.86	0.89	0.90	0.90	0.90	high
30	 Enter (Flow 				the E	3B de	sign s	spreadsheet





