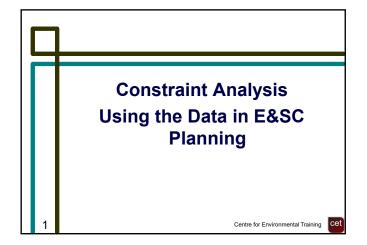
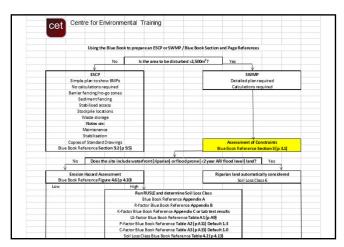
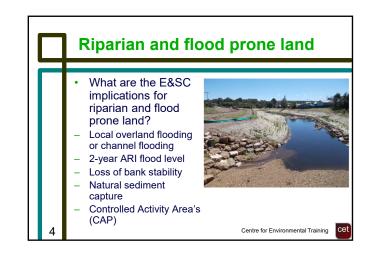
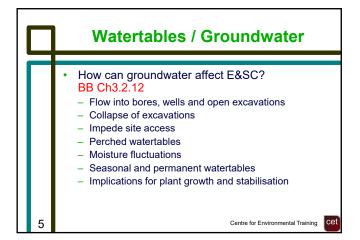
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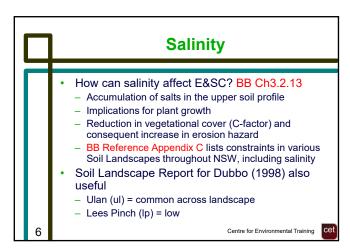




Assessment of constraints Blue Book Reference Chapter 3 Consider: • Waterfront (riparian) land: vegetated land adjacent to waterbodies BB Ch3.2.1 • Flooding: <2 year ARI flood level, automatically considered Soil Loss Class 6 – high erosion hazard BB Ch3.2.2 • Need to focus on erosion control • Review soil characteristics BB Ch3.2.4

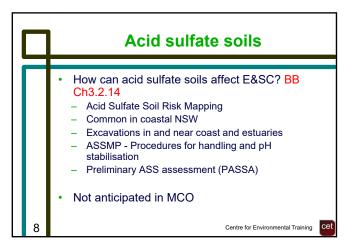


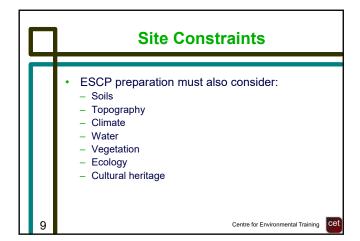


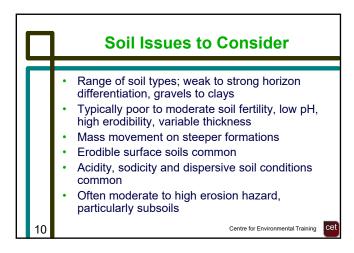


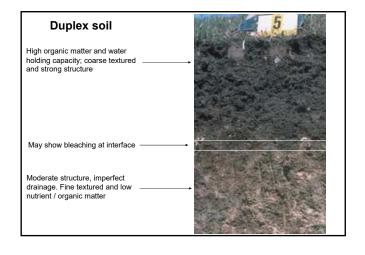
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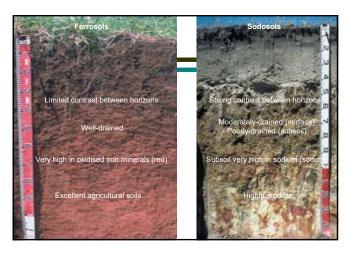






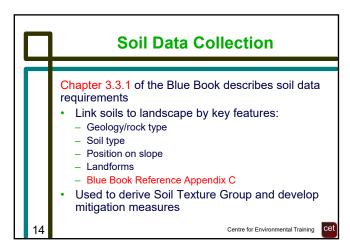


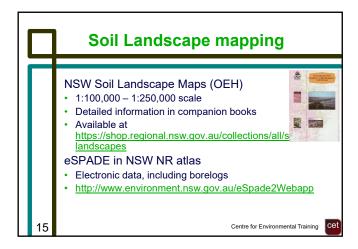


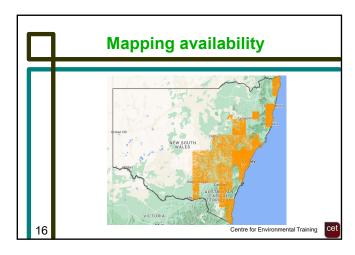


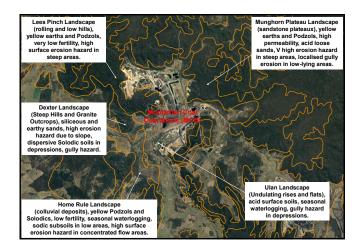
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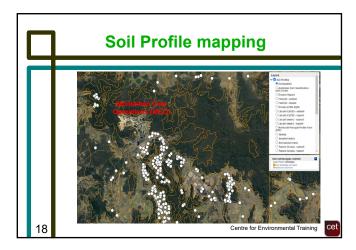






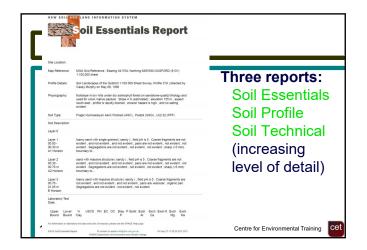


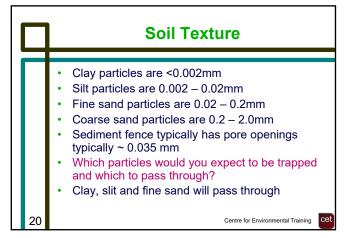


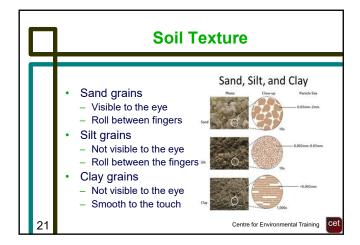


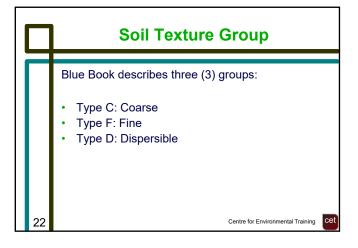


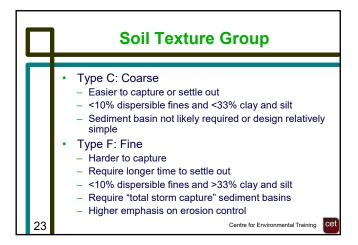
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Soil Texture Group

• Type D: Dispersible

- >10% dispersible fines

- Structurally unstable (slaking and dispersion)

- Primarily affects clay and silt fraction

- Not all clays are dispersible

- Use Emerson test to check

- Highly erodible if exposed

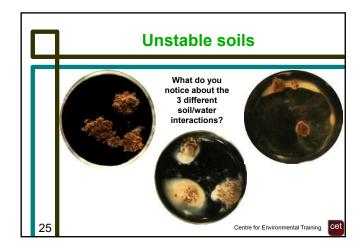
- Hard setting and low permeability

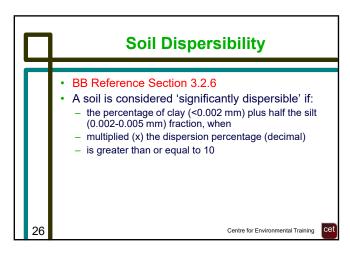
- Particles are kept apart by negative electrical charge

• Soil (stability) Demonstration

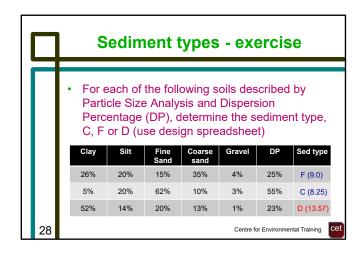


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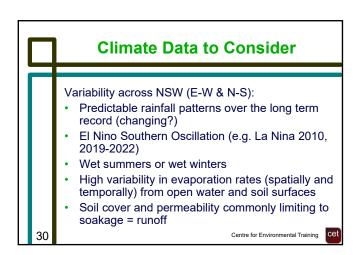




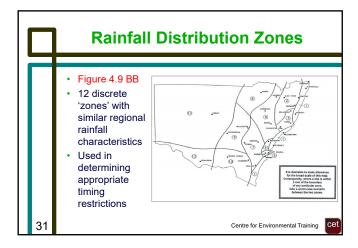
Sediment Type - exercise What is the sediment type for a subsoil: - At Boolaroo on the Cockle Creek (cc) Soil Landscape? (Table C13) - At Cassilis on the Ant Hill (ah) Soil Landscape? (Table C10) • How would you manage each? • Refer BB Appendix C

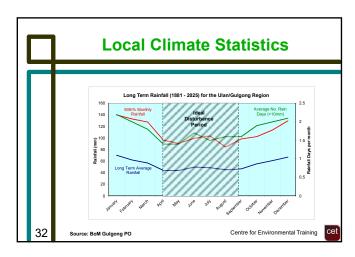


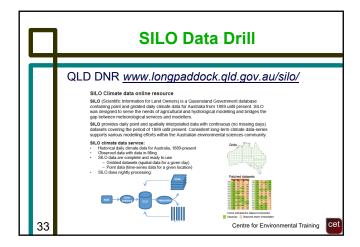
	Soil Hydrologic Group
29	Refers to the parameters used in describing (and calculating) likely runoff generation from an exposed soil surface, based on soil texture Group A soils = very low runoff potential Sandy loams, sands and gravels (>120mm/hour) Group B soils = low-moderate runoff potential Structured loams to clay loams (10-120mm/hour) Group C soils = moderate-high runoff potential Weak clay loams to light clays (1-10mm/hour) Group D soils = very high runoff potential Low structure clays, shrink/swell and high watertables (<1mm/hour)

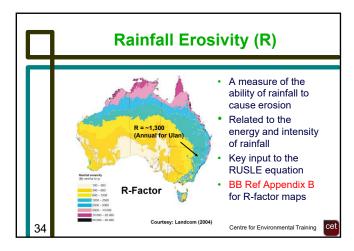


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Management Options? Program critical works during times of 'low probability' for extreme rainfall conditions Store problematic materials (dispersive/sodic soils) well away from potential areas of inundation Maintain maximum surface cover (natural or installed) of exposed areas Minimise the use of temporary works (i.e. crossings) on greenfield sites

