

On sensitive or high erosion hazard sites, if possible plan construction for times when the rainfall activity is typically lower (e.g. April – October)
High erosion hazard site >500 t/ha/yr calculated soil loss using RUSLE
Be prepared though, heavy rain can occur at any time of year!

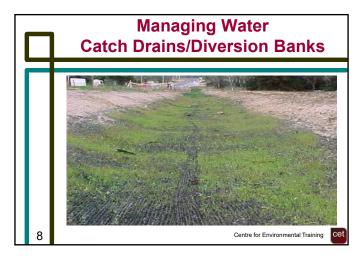
Reduce Disturbance Areas

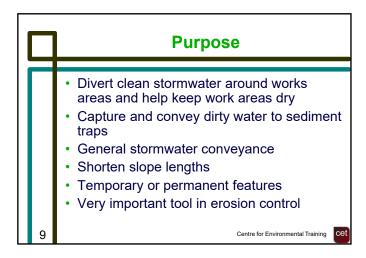
 Stage development where practical, reducing the area exposed to erosion at any one time
 Limit disturbance to 5m (preferably 2m) from essential work areas
 Use barrier fence (upslope) and sediment fence (downslope) to define work areas and "no-go" zones

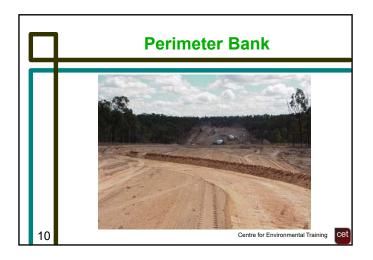
Centre for Environmental Training







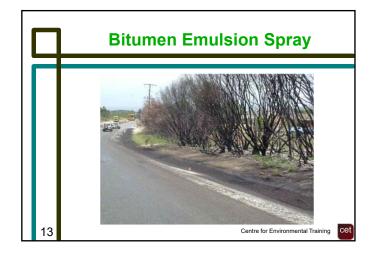






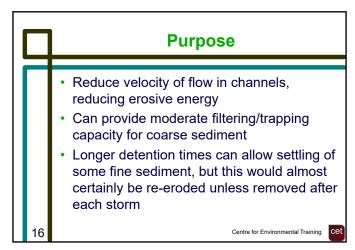


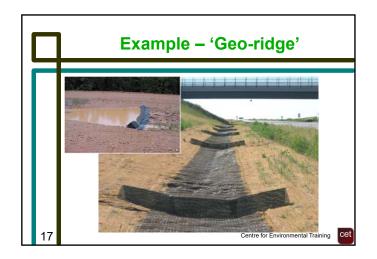






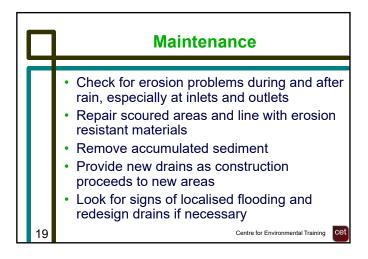






















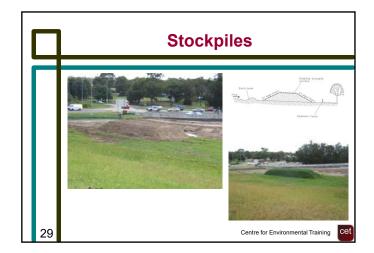


# Stockpiles Store topsoil and subsoil separately Understand dispersive soil types (typically subsoils) – do not mix Preserve seed viability and soil structure (minimise re-working) Control erosion and prevent sediment pollution Longer term stockpiling – mulch cover or revegetation is a good option



## Place at least 2 m from property boundaries and hazard areas (e.g. waterways, roads, existing vegetation) Place stormwater diversion drains upslope and sediment fence downslope Keep height < 2 m if possible, and batters with 2:1 maximum slope Stabilise stockpiles that are in place for more than 10 days using vegetation or cover (~60% effective cover)

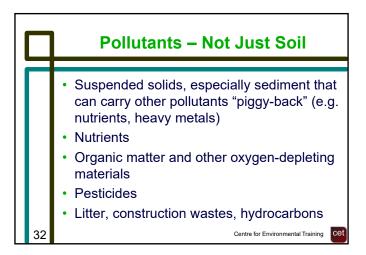




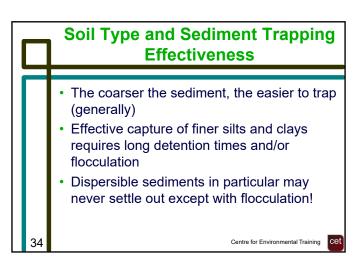


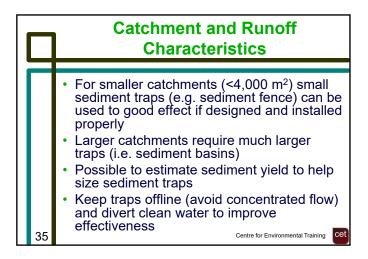


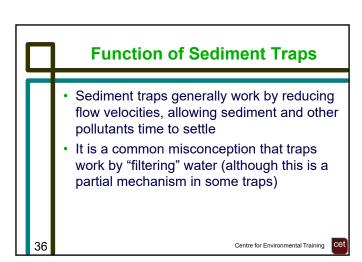
## Sediment Controls • Erosion controls must be a major priority at any development site, but inevitably are not 100% effective • Sediment controls act along with good erosion control to minimise off-site pollution, as part of an overall "treatment train"



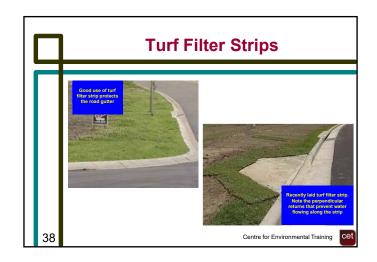








# Maintenance of Sediment Traps Inspect devices after each storm and: - Remove sediment when sediment reaches 1/3 to 1/2 capacity - Repair damage - Assess effectiveness and install additional erosion and sediment controls as required - Flocculate sediment basins capturing fine or dispersible sediment







Purpose

Use downslope of all disturbed areas
Best used to dam water where it is inclined to pond (e.g. flat areas at base of batters)
Designed for sheet flow, not concentrated flow
Not appropriate in waterways
Woven geotextile supported by star pickets, hardwood posts etc.
Reinforce with steel wire or mesh for higher flows
Construct along the contour to prevent water concentrating at one point
Trap mainly sand and gravel – most silt and clay will pass through

Sediment fence typically has pore openings typically ~ 0.035 mm
Clay and silt are <0.02 mm and much will pass straight through
Sand >0.02 mm and gravel caught with greater efficiency
Trapped material will improve efficiency to a point.....maintenance required to ensure continued performance

