



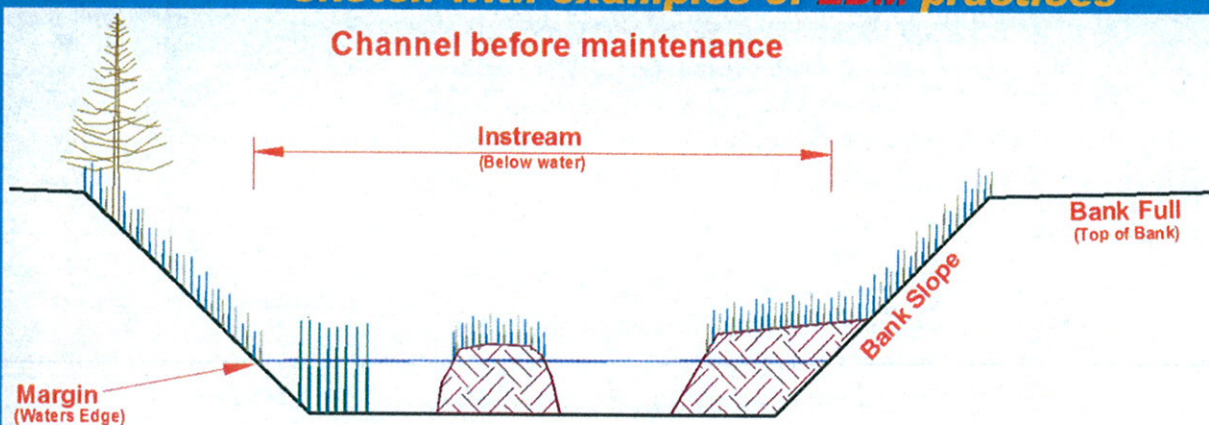
Environmental Drainage Maintenance

Guidance Notes

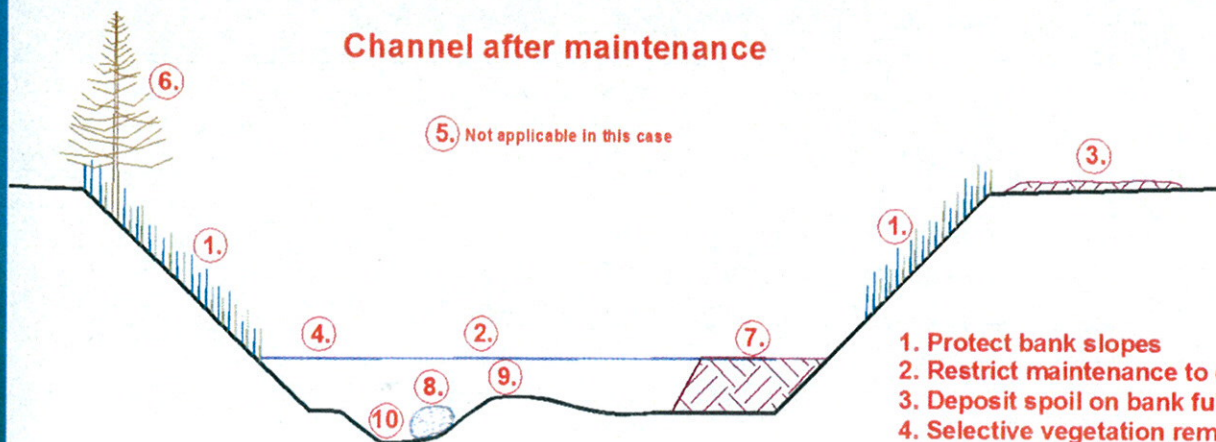
10 Steps to Environmentally Friendly Maintenance

Sketch with examples of EDM practices

Channel before maintenance



Channel after maintenance



1. Protect bank slopes
2. Restrict maintenance to channel
3. Deposit spoil on bank full
4. Selective vegetation removal
5. Leave section untouched
6. Management of trees
7. Manage berms to form two stage channel
8. Replace boulders
9. Loosen bed gravels
10. Excavate pools

Steps to be carried out as standard procedure

- 1. Protect bank slopes**
 - Retain vegetation on non-working bank
 - Minimise scraping of bank slope on working bank
- 1. Restrict maintenance to channel**
 - Remove instream material only
 - Retain marginal vegetation
- 1. Deposit spoil on bank full**
 - Maximise spoil deposition on bank full or spoil heaps
 - Minimise spoil deposition on bank slopes
- 1. Selective vegetation removal**
 - Retain Canary and other marginal grasses
 - Remove Bulrush, Bur-reed and Water celery type vegetation

Steps to be carried out in consultation with Foreman/Technician

- 1. Leave sections untouched**
 - If channel capacity is not effected, then leave intact
 - Only maintain if environmental works required
- 1. Management of trees**
 - Leave intact if no reduction in channel capacity caused
 - Remove overhanging branches to flood level
 - Use saw or secateurs for removal, not excavator
- 1. Manage berms to form two stage channel**
 - Remove top of berms to low flow levels
 - Remove vegetation and soil from gravel berms
 - Replace sod to the berm where feasible
- 1. Replace boulders**
 - Reinstate boulders and gravels as removed by maintenance operations
 - Reinstate boulders into channel from spoil heaps
 - Boulders placed below low flow level and staggered

Steps to be carried out in consultation with Fisheries

- 1. Loosen bed gravels**
 - Loosen or toss bed gravels to wash out fines
 - Only considered between 1st July and 30th September
- 1. Excavate pools**
 - Excavate pools staggered along channel centre and sides
 - Excavated material placed to form adjacent riffles
 - Completed only if channel bed of suitable material