### Riverine Habitat Audit Procedure — SHEET 15  Constraints & Opportunities - Rehabilitation / Restoration

**NON SURVEY**

**Opportunities**
- Years to new major maintenance
- Channelisation and bank stabilisation warranted
- Link to existing wildlife corridor
- Link to existing wetland
- Known habitat for species of conservation concern
- Instream
- Floodplain
- Wildlife Corridor
- Wetland
- Imperviousness controls planned
- Major upgrade of flood or stormwater due
- Improved Drainage or water quality planned

**Constraints**
- Recreational area, bike path inhibiting vegetation restoration
- Known water quality problem
- High flows damaging to instream communities
- Culvert or bridge - restricting passage and continuity
- diversion or abstraction area
- sand and gravel extraction
- mining activities
- planned major excavations, road building

**Tenure of buffers and corridors, setbacks**

**Flooding**
- No problem
- minor problem
- major problem
- floodway OK?

**Base Flow**

**Low Flow**

**Near Stream Zone**

**Middle Zone**

**Upper buffer Zone**

**Tenure soils & catchment**

**Comments**

**Acid - sulphate soil? Other soil and geology issues?**

**Solutions?**

**Compromises?**

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### Available Area and Suitability

**Left**
- Ratio of total buffer width to
  - bankfull width (average)
  - Can the narrow zones be
    - offset by wider areas to
      - give a reasonable total buffer?
  - Can a riparian zone of 10m
    - wide be restored?
  - Does it appear that fill has
    - been added to the channel?

**Right**
- Are the upstream areas in
  - good enough condition not
    - to act as a constraint by
      - impeding benefits?
- Are there significant barriers
  - or breaks in continuity that
    - would impede restoration?
- Is the bed capable of
  - restoring now? Or will major
    - works be required?
- Is the area suitable for rehabilitation
  - by adding rocks and riffle areas without
    - major works being involved?

### Rate the Access to the Area

**Public**
- With minor works
  - Now
  - For Maintenance

**Transmission**
- With minor works
  - Good
  - Moderate
  - Poor
  - Very Restricted

### Within area of effect

**Sources of water quality problems**
- service station
- industrial area
- timber treatment and storage
- marina
- boatshed
- retail shopping centre, carpark
- retail and wholesale nurseries
- garden supplied, building supplies
- building materials
- recycling facilities
- past and present refuse dumps
- scrap metal
- motor wreckers
- golf courses
- market gardens
- turf farms
- wastewater treatment discharge
- other wastewater discharge point

### Other Issues:

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**Other Constraints**
- Are there major weed problems at the site and in the surrounding area?
- Are there major sediment deposits in the bed or on the banks which would point to sediment load problems?
- Are there signs that the area is frequently disturbed - flood debris, scouring bank erosion?
- Are there areas downstream which would be affected by the changed flow patterns?
- Are there other problems?

- Are there floodplain wetland areas to link to?
- Is there space for a high flow channel on floodplain?