

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

Basin Sub-section Site
 Tributary Name _____ Date (dd/mm/yy) /_____
 Recorder _____

NON SURVEY Opportunities

Years to new major maintenance	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Channelisation and bank stabilisation warranted	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Link to existing wildlife corridor	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Link to existing wetland	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Known habitat for species of conservation concern	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Instream	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Riparian	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Floodplain	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Wildlife Corridor	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Wetland	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Imperviousness controls planned	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Major upgrade of flood or stormwater due	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Improved Drainage or water quality planned	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

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

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

Flow Zone	Base Flow	Low Flow	Near Stream Zone	Middle Zone	Upper buffer Zone	Tenure soils & catchment	Comments
<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
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Flooding: No problem minor problem major problem floodway OK?
 Restrictions _____
 Solutions? _____
 Compromises? _____

Available Area and Suitability

Left <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Right <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Ratio of total buffer width to bankfull width (average)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Can the narrow zones be offset by wider areas to give a reasonable total buffer?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Can a riparian zone of 10m wide be restored?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Does it appear that fill has been added to the channel?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Are the upstream areas in good enough condition not to act as a constraint by impeding benefits?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Are there significant barriers or breaks in continuity that would impede restoration?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Is the bed capable of restoring now? Or will major works be required?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Is the area suitable for rehabilitation by adding rocks and riffle areas without major works being involved?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Rate the Access to the Area

Public	For Maintenance
With minor works	With minor works
Now <input type="checkbox"/> works <input type="checkbox"/>	Now <input type="checkbox"/> works <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Good	Moderate
Poor	Very Restricted

Other Constraints

Are there major weed problems at the site and in the surrounding area? yes no

Are there major sediment deposits in the bed or on the banks which would point to sediment load problems? yes no

Are there signs that the area is frequently disturbed - flood debris, scouring bank erosion? yes no

Are there areas downstream which would be affected by the changed flow patterns? yes no

Are there other problems? _____

Are there floodplain wetland areas to link to?

Is there space for a high flow channel on floodplain?

Other Issues :

Sources of water quality problems

service station	<input type="checkbox"/>
industrial area	<input type="checkbox"/>
timber treatment and storage	<input type="checkbox"/>
marina	<input type="checkbox"/>
boatshed	<input type="checkbox"/>
retail shopping centre, carpark	<input type="checkbox"/>
retail and wholesale nurseries	<input type="checkbox"/>
garden supplied, building supplies	<input type="checkbox"/>
building materials	<input type="checkbox"/>
recycling facilities	<input type="checkbox"/>
past and present refuse dumps	<input type="checkbox"/>
scrap metal	<input type="checkbox"/>
motor wreckers	<input type="checkbox"/>
golf courses	<input type="checkbox"/>
market gardens	<input type="checkbox"/>
turf farms	<input type="checkbox"/>
wastewater treatment discharge point	<input type="checkbox"/>
other wastewater discharge point	<input type="checkbox"/>

Within area of effect

Within Section