

Four Rivers Survey

SETTING THE PRIORITIES FOR ACTION IN THE SOUTHERN FLINDERS AND NORTHERN MT LOFTY RANGES CATCHMENTS

The Four Rivers Project is currently developing catchment action plans for the four catchments within the Southern Flinders and Northern Mt Lofty Ranges. We're reviewing information collected from the community 10–15 years ago when the last river management plans were developed, and we'd like your help to find out if this information is still accurate.

We've identified a list of watercourse assets, threats to these assets and management actions that could be used to address them. We would like your feedback to see if these are still relevant, which issues are most important and if there are any new issues we need to address.

Your local knowledge and understanding of the river is an invaluable source of information and we would appreciate your input and time in completing this survey. We will use the information collected to help guide the development of catchment action plans and prioritise on-ground works in the region.

For more information

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Thank you for your ongoing support.

Name (optional) _____

Email (optional) _____

Landholder: town farm other

What is the closest river or creek to your property? _____

Which catchment and sub-catchment is your property located in? Please tick:

Broughton

- Hutt and Hill Rivers
- Booborowie & Baldry Creeks
- Freshwater & Bundaleer Creeks
- Yackamoorundie Creek
- Rocky River
- Crystal Brook Creek
- Lower & Mid Broughton River

Wakefield

- Upper Wakefield River
- Eyre Creek
- Pine & Rices Creeks
- Skillogalee Creek
- Hermitage & Woolshed Flat Creeks
- Lower Wakefield River

Light

- Upper Light
- Mid Light
- Lower Light
- Gilbert

Willochra

- Beautiful Valley & Spring Creeks
- Wild Dog, Booleroo & Old Booleroo Creeks
- Mt Brown Creeks
- Amyton & Coonatto Creeks
- Pichi Richi & Mt Arden Creeks
- Wallaby & Boolcunda Creeks
- Kanyaka & Willochra Creeks



Natural Resources
Northern & Yorke



Government
of South Australia

Within your sub-catchment, rate your 10 most important assets from 1 to 10, where 1 is the most important.

- | | | |
|---|--|--|
| <input type="checkbox"/> other _____ | <input type="checkbox"/> macroinvertebrates | <input type="checkbox"/> reed beds |
| <input type="checkbox"/> aquatic plants | <input type="checkbox"/> maireana | <input type="checkbox"/> remnant shrubland |
| <input type="checkbox"/> blue gum | <input type="checkbox"/> mallee box | <input type="checkbox"/> riffles |
| <input type="checkbox"/> chenopod shrubland | <input type="checkbox"/> mangroves | <input type="checkbox"/> river red gums |
| <input type="checkbox"/> estuary | <input type="checkbox"/> native fish | <input type="checkbox"/> rockbars |
| <input type="checkbox"/> flood diversions | <input type="checkbox"/> native grasses | <input type="checkbox"/> samphire |
| <input type="checkbox"/> flood plain swamps | <input type="checkbox"/> native pines | <input type="checkbox"/> short leaf honey myrtle |
| <input type="checkbox"/> flood plains | <input type="checkbox"/> native sedgeland | <input type="checkbox"/> shrimp |
| <input type="checkbox"/> flood-out plain | <input type="checkbox"/> native shrublands | <input type="checkbox"/> shrubland |
| <input type="checkbox"/> good agricultural soil | <input type="checkbox"/> overstorey vegetation | <input type="checkbox"/> spalding brown grass |
| <input type="checkbox"/> gorge | <input type="checkbox"/> peppermint box | <input type="checkbox"/> waterbirds |
| <input type="checkbox"/> grey box woodlands | <input type="checkbox"/> permanent pools | <input type="checkbox"/> white box woodlands |
| <input type="checkbox"/> groundwater | <input type="checkbox"/> permanent springs | <input type="checkbox"/> other _____ |
| <input type="checkbox"/> lignum | <input type="checkbox"/> red mallee | <input type="checkbox"/> other _____ |

Within your sub-catchment, rate your 10 main threats to watercourses from 1 to 10, where 1 is the most important.

- | | | |
|---|--|--|
| <input type="checkbox"/> other _____ | <input type="checkbox"/> siltation | <input type="checkbox"/> dams |
| <input type="checkbox"/> declining river flow | <input type="checkbox"/> structural works causing or threatened by erosion | <input type="checkbox"/> lack of native vegetation |
| <input type="checkbox"/> flooding | <input type="checkbox"/> erosion heads | <input type="checkbox"/> degradation of riverine habitat |
| <input type="checkbox"/> reduction of water table and pool levels | <input type="checkbox"/> exotic trees | <input type="checkbox"/> degradation of native habitat |
| <input type="checkbox"/> poor water quality | <input type="checkbox"/> weeds | <input type="checkbox"/> loss of animal habitat |
| <input type="checkbox"/> pollution from septic tanks | <input type="checkbox"/> livestock impact | <input type="checkbox"/> increased reed growth |
| <input type="checkbox"/> pollution from farm chemicals | <input type="checkbox"/> pest animals | <input type="checkbox"/> cultivation of riparian land and watercourses |
| <input type="checkbox"/> nutrient concentrations in water | <input type="checkbox"/> exotic fish | <input type="checkbox"/> flood irrigation |
| <input type="checkbox"/> drying up of springs | <input type="checkbox"/> groundwater extraction | <input type="checkbox"/> other _____ |
| <input type="checkbox"/> salinity | <input type="checkbox"/> uncontrolled development | <input type="checkbox"/> other _____ |



If you identified weeds or exotic trees as a threat, please rate your top 10 weeds from 1 to 10, where 1 is the most important.

- | | | |
|---|--|--|
| <input type="checkbox"/> other _____ | <input type="checkbox"/> common reed | <input type="checkbox"/> radish |
| <input type="checkbox"/> African rue | <input type="checkbox"/> dog rose | <input type="checkbox"/> silverleaf nightshade |
| <input type="checkbox"/> ash | <input type="checkbox"/> fennel | <input type="checkbox"/> slender thistle |
| <input type="checkbox"/> Bathurst burr | <input type="checkbox"/> fruit trees | <input type="checkbox"/> soldier thistle |
| <input type="checkbox"/> black nightshade | <input type="checkbox"/> gorse | <input type="checkbox"/> spear thistle |
| <input type="checkbox"/> blackberry | <input type="checkbox"/> hoary cress | <input type="checkbox"/> tomato weed |
| <input type="checkbox"/> boxthorn | <input type="checkbox"/> horehound | <input type="checkbox"/> tree tobacco |
| <input type="checkbox"/> broom | <input type="checkbox"/> olives | <input type="checkbox"/> variegated thistle |
| <input type="checkbox"/> cactus | <input type="checkbox"/> onion weed | <input type="checkbox"/> wild artichoke |
| <input type="checkbox"/> caltrop | <input type="checkbox"/> peppertrees | <input type="checkbox"/> wild rose |
| <input type="checkbox"/> cape tulip | <input type="checkbox"/> perennial thistle | <input type="checkbox"/> willow |
| <input type="checkbox"/> castor oil plant | <input type="checkbox"/> pine | <input type="checkbox"/> other _____ |

Within your sub-catchment, rate your 10 most important watercourse management objectives from 1 to 10, where 1 is the most important.

- | | | |
|--|--|---|
| <input type="checkbox"/> other _____ | <input type="checkbox"/> improve water quantity | <input type="checkbox"/> manage structural works causing or threatened by erosion |
| <input type="checkbox"/> protect important riverine habitat | <input type="checkbox"/> maintain a balance between reed beds and waterholes in the river system | <input type="checkbox"/> remediate inefficient groundwater use practices |
| <input type="checkbox"/> manage livestock | <input type="checkbox"/> remove exotic trees | <input type="checkbox"/> remediate inefficient surface water use practices |
| <input type="checkbox"/> improve/maintain areas of good native vegetation | <input type="checkbox"/> undertake engineering works | <input type="checkbox"/> determine current groundwater extractions |
| <input type="checkbox"/> protect remnant vegetation | <input type="checkbox"/> investigate dryland, groundwater and surface water salinity | <input type="checkbox"/> protect migration flows |
| <input type="checkbox"/> control weeds | <input type="checkbox"/> maintain perennial grass cover | <input type="checkbox"/> other _____ |
| <input type="checkbox"/> increase monitoring | <input type="checkbox"/> fence vulnerable assets | <input type="checkbox"/> other _____ |
| <input type="checkbox"/> revegetate for habitat conservation and erosion control | <input type="checkbox"/> allow natural regeneration | |
| <input type="checkbox"/> improve water quality | <input type="checkbox"/> manage areas of poor bank stability | |
| <input type="checkbox"/> enhance natural qualities and characteristics of the river system | <input type="checkbox"/> manage erosion | |



Within your sub-catchment, rate your 10 main barriers to managing watercourse issues from 1 to 10, where 1 is the biggest barrier.

- | | | |
|---|--|---|
| <input type="checkbox"/> other _____ | <input type="checkbox"/> amount of time and paperwork involved in funding applications | <input type="checkbox"/> lack of coordination and communication between organisations and individuals involved in water resource management |
| <input type="checkbox"/> lack of community awareness, knowledge and information | <input type="checkbox"/> uncertainty, infrequency or small size of funding available | <input type="checkbox"/> lack of social and regulatory consequences for poor watercourse management |
| <input type="checkbox"/> lack of community knowledge and information to plan actions | <input type="checkbox"/> growing demands on water resources | <input type="checkbox"/> outside impacts, including upstream management impacting on downstream health |
| <input type="checkbox"/> lack of necessary skills for planning, organising and implementing actions | <input type="checkbox"/> conflicts between agricultural use and environmental needs | <input type="checkbox"/> other _____ |
| <input type="checkbox"/> lack of funds to address watercourse management issues | <input type="checkbox"/> lack of time to address watercourse management | <input type="checkbox"/> other _____ |
| <input type="checkbox"/> lack of people to undertake works | <input type="checkbox"/> inadequate/insufficient amount and scale of catchment management planning | |

Thank you for your input on sub-catchment management priorities.

Now, please think about the priorities for the **catchment** as a whole.

At a catchment scale, identify the top three actions that you would like to see taken within your catchment.

1. _____
2. _____
3. _____

Please provide any other input on watercourse priorities that you believe will help in planning and prioritisation.

Any other comments.

Thank you for participating in the Four Rivers survey.