

# work TOGETHER

## Dawesley Creek diversion under analysis



### INVITATION

#### Public Forum

You are invited to a public forum where full details of the diversion proposal will be explained and discussed.

**From: 7.30 pm**

**On: Wednesday  
November 15**

**At: Brukunga Hall**

A recent feasibility study investigating the diversion of Dawesley Creek around the Brukunga Mine site designed to significantly reduce acid pollution levels within the creek is being analysed by the Brukunga Mine Site Remediation Board.

Adelaide-based environmental consulting firm, PPK Environment and Infrastructure, was commissioned by the Board to carry out the study, following an extensive tendering process.

The Board considers its examination and possible implementation of PPK's proposal to be one of the most significant steps in its efforts to identify possible ways of ensuring that water downstream from the mine site is suitable for agricultural use.

The study shows that it is technically possible to divert Dawesley Creek past the former Brukunga Mine site to isolate the creek from acid seepage.

The Board is now keen for the local community to consider the feasibility study and the diversion proposal and provide its feedback.

**From the Brukunga Mine Site Remediation Board**

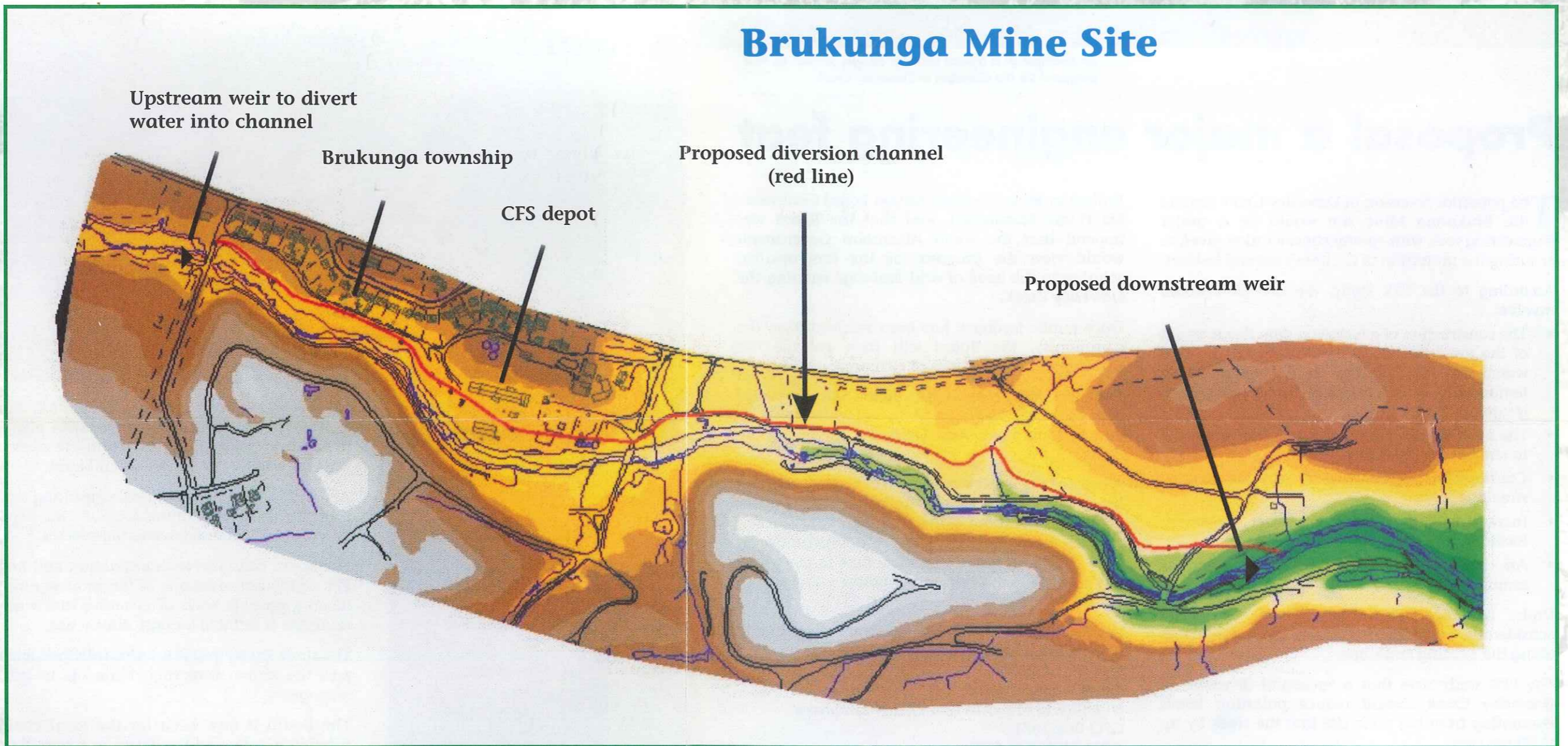
The map below shows the proposed route for a diversion channel designed to bypass Dawesley Creek around the mine site and further prevent acid seepage into the creek water. A small dam would be constructed upstream of Peggy Buxton Road to create a pond that will effectively "push" the water into the diversion channel.

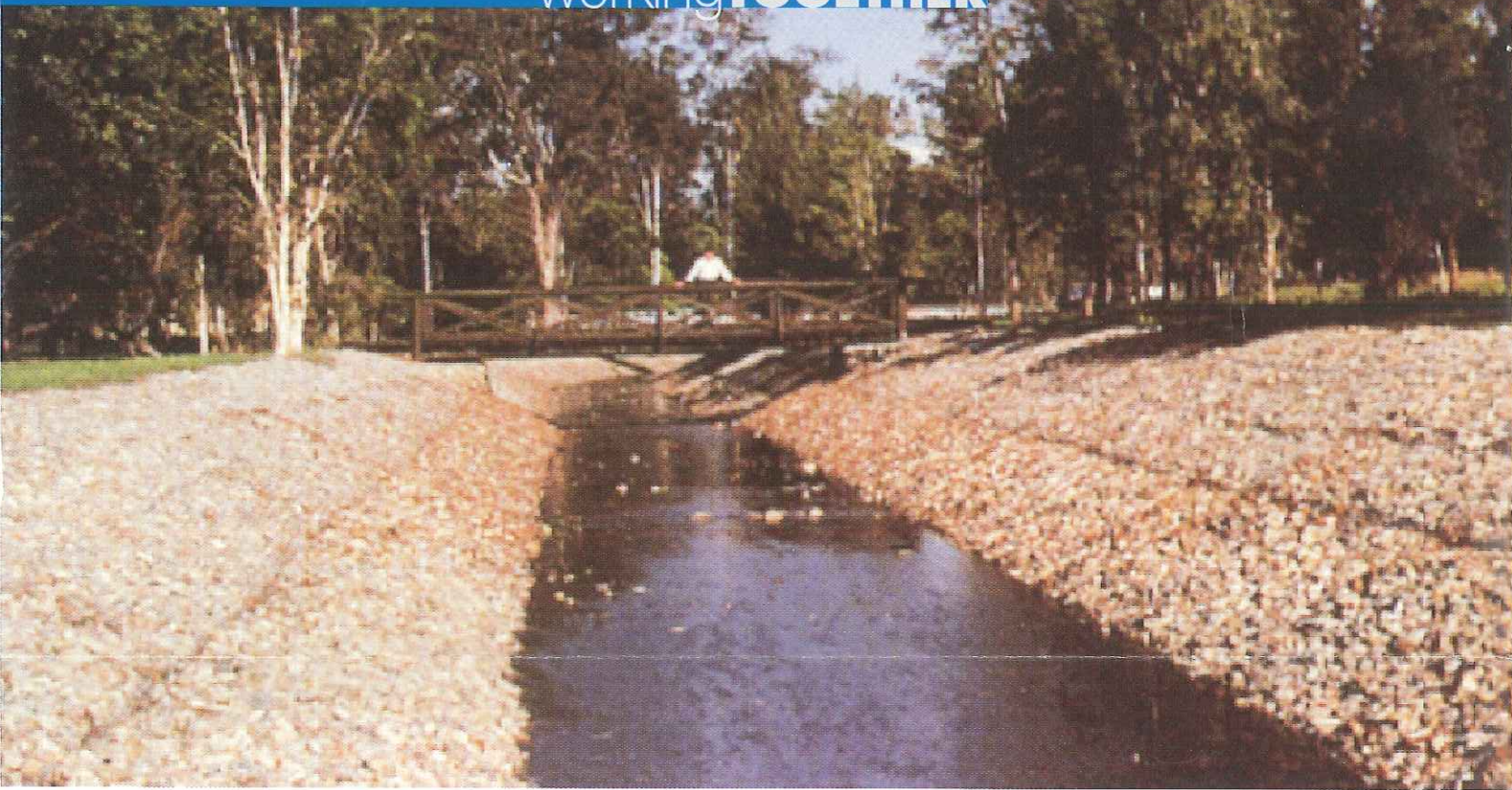
A new downstream dam near the boundary of the mine site will trap the flow of acid drainage from the mine site. The diversion channel will carry the "clean" water and discharge it below the downstream dam.

Much of the channel will be open, however some lengths will need to be buried.



## Brukungu Mine Site





*An example of a typical channel design, similar to that proposed for the diversion of Dawesley Creek*

## Proposal a major engineering feat

The potential diversion of Dawesley Creek around the Brukunga Mine site would be a major engineering feat, with careful consideration given to ensuring the protection of the area's natural habitat.

According to the PPK study, the diversion would involve:

- The construction of a retention dam downstream of the mine site to act as a buffer for the acid water. This would allow acid seepage to be temporarily detained before being pumped to treatment facilities.
- The building of a dam upstream of the mine site to redirect the creek flow.
- Construction of a channel to carry the diverted stream water.
- Increasing the capacity of water treatment facilities.
- An expanded program of continuous monitoring.

Under the diversion proposal there would be considerable focus on protecting the native trees along the existing creek line.

The PPK study says that a successful diversion of Dawesley Creek should reduce pollution levels emanating from the mine site into the creek by up to 80 per cent.

Brukunga Mine Site Remediation Board Chairman, Mr Hume Macdonald, said that the Board was hopeful that the South Australian Government would view the proposal as the long-awaited solution to the issue of acid drainage entering the Dawesley Creek.

Once public feedback has been received from the community, the Board will then provide the Government with a series of recommendations.

The community consultation period will commence with the public forum on Wednesday, November 15 and will continue until Thursday, November 30, 2000.

A copy of the feasibility study can be viewed at the Brukunga General Store. Residents with queries about the operations of the Brukunga Mine site can contact Peter Grindley, Mine Site Supervisor, on 8388 6527 to arrange a suitable time to meet with Ray Cox, Principal Mining Engineer - Projects, to discuss any questions.

Written submissions on the feasibility study should be forwarded by November 30 to:

Ms Deb Johnson  
Board Administrator  
c/- Office of Minerals and Energy Resources  
GPO Box 1671  
ADELAIDE SA 5001