



Wendouree Power Station Remediation*.

Former coal fired power station contaminated soil was encapsulated on site near a landmark ecological receptor (lake).

GHD staff was the lead environmental consultant and project managers for this successful demolition and remediation project.

The project involved use of innovative methods to achieve cost effective solution.

The former power station was redeveloped for residential use.

Former Wendouree Power Station, Ballarat, Victoria.

* GHD staff undertook this project during their previous employment.



Backfilling operations showing the orange marker layer above the contaminated soil capsule.



Finished product – Residential development. Contaminated soil capsule is beneath roadway.

Project name: Wendouree Power Station, Ballarat, Victoria*

Client name: State Electricity Commission of Victoria

Date: April – May 1995

Fee/Value: Approx \$300K

Site details:

The site was the former Wendouree Power Station, located on the banks of Lake Wendouree, a major landmark in Ballarat and a sensitive ecological receptor. The Power Station used briquettes as a source material. The power station structure included a large basement area, to a depth of 4 metres below ground level. Activities at the site included treatment of waste ash material and storage of fuels and oils in underground tanks. The project included demolition of the power station and on-site treatment of contaminated soils. The site was eventually redeveloped for residential use.

Methodology:

The power station structure was demolished to ground level, leaving a basement area. Salvageable building materials such as bricks and scrap steel were recycled. Contaminated soils generated by the removal of underground structures (tanks etc) were stockpiled separately at the site.

In consultation with the site Auditor, a cost effective solution was developed to encapsulate the contaminated soil in the basement area, beneath the proposed roadway for the residential subdivision. The soils were encapsulated within the basement floor and walls and a marker layer of artificially coloured sand was placed on top to mark the upper extent of the contaminated soil (see photo – top left). The contaminated soil was placed to a minimum depth below the road surface to minimise potential health effects from contaminants.

The site has now been developed as an exclusive residential estate in a prime lakeside environment (see photo – top right).

For more information, please contact:

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