Conjola Regional Sewerage Scheme

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Abstract

Currently Surveying & Spatial Information Services (SASIS) provide fee-based services to both internal (Dept of Commerce) and external (other state govt organisations, local government, and some private enterprises) clients. For this project, the Conjola Regional Sewerage Scheme, the immediate clients are the Programs Branch (Dept of Commerce), beyond that the project is funded by Shoalhaven Water and the Ministry of Energy & Utilities, and we have close liaison with Shoalhaven Water regarding actual scheme survey & design.

DPWS' involvement in this project goes back to 2001 and has included overall project management, geotechnical investigations, surveying, engineering design, tendering, specifications, contract maintenance, & construction supervision.

The Scheme

The overall objective of the sewer scheme is to protect the region's greatest natural asset, being Lake Conjola, from effluent pollution. The pollution is known to come from old, malfunctioning septic tanks and absorption trenches. The villages to be served by the new scheme include North Bendalong, Bendalong, Manyana, Cunjurong Point, Berringer, Fishermans Paradise, Conjola Park, Killarney, and Lake Conjola.

The scheme consists of two treatment plant sites, 13 pumping stations, 37km of gravity sewer, 6km of Low Pressure mains, over 1000 sewer manholes, and 25km of transfer mains.

Our Involvment

In terms of surveying , to get to where we are today has been a major team effort and has involved a few different players. These include:

BHP – aerial photography, digital photogrammetric mapping

CH2M Hill – consultants who provided the initial scheme layout concept

Shoalhaven City Council – accurate digital cadastre, NPWS land negotiations, gravity sewer survey and design for North Bendalong and Bendalong villages, community information newsletters and public display days.

Dept of Commerce – survey project management, scheme DRL (Draft Reticulation Layout), pegging & survey of gravity sewer lines, transfer mains, pumping station sites & treatment plant sites, production of sewer route plans and long sections, grading & design of gravity sewers, quantities reports. Cadastral surveys for road widening along Lake Conjola Entrance Road and for the northern treatment plant site. Post-construction we will be likely to carry out surveys for pipeline easements and small subdivisions for the acquisition of pumping station sites.

Interesting Features

The project will involve some unique and interesting features including;

- boundary adjustment for NPWS along Lake Conjola Entrance Road, involving dealing with the National Parks Estate Act 2000
- wastewater transport system
- engineering aspects of the lake entrance crossing to join the two treatment plants

- community information days