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# Redbank Creek

## Corrective Management Action Plan

JANUARY 2019 | Newsletter #2

### Project Background

Tahmoor Coking Coal Operations (TCCO) is a longwall coal mine that has been extracting coking coal from the Bulli Seam since 1979.

Redbank Creek, a tributary of the Nepean River and its headwaters are located before Longwall 25. It generally consists of Hawkesbury Sandstone bedrock with a progressive series of rock bars and pools. TCCO's longwall panels have extracted coal below Redbank Creek from Longwall 25 to Longwall 32. Longwall mining has caused subsidence impacts that has resulted in pool fracturing and draining, such that some pools only retain water after heavy periods of rain.

Subsidence movements within the vicinity of Redbank Creek have now effectively ceased, enabling TCCO to plan and implement a remediation project to restore the pools within Redbank Creek.

TCCO have prepared a Redbank Creek Corrective Management Action Plan (**Redbank Creek CMAP**) that outlines the proposed remediation works including creek characterisation, pool mapping and pool rehabilitation works. The Redbank Creek CMAP has been approved by the NSW Resources Regulator.

Works have been developed in consultation with and approved by relevant government departments including, Department of Planning, Industry and Environment (**DPIE**) – Resources Regulator, DPIE – Planning, Department of Primary Industries (**DPI**) – Fisheries, Natural Resources Access Regulator (**NRAR**), Wollondilly Shire Council and the Community Consultative Committee.

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**Environmental Project Coordinator**

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### Progress Report

Pool mapping within Redbank Creek has been completed, allowing suitable pools to be selected for rehabilitation based on their individual characteristics and overall function.

Photogrammetry and detailed surveying of selected pools has been completed. This has allowed TCCO to determine the accurate volume, as well as their hypothetical overflow point and highlight any geological bedding at pools. This is important to assist with monitoring the success of future rehabilitation works.

### Characterisation Drilling

Characterisation drilling of 11 of 12 boreholes has been completed on private property with a Land Access Agreement between TCCO and the landowner. Characterisation drilling involves drilling cored holes to the base of the creek water level. Geological testing has been conducted to help understand the creek fracture network and groundwater interactions, which is crucial in future rehabilitation planning. Piezometers have been installed following coring that will be used to monitor groundwater quality and levels during rehabilitation and into the future. One more hole will be drilled and is due to be completed in January 2020.

Works will be conducted strictly between **8:00am to 5:00pm, Monday to Friday.**

### Pool Remediation

The remediation of several pools along Redbank Creek is being prepared with works anticipating to commence in February 2020. Works will aim to seal surface fractures to return pool holding capacity and ultimately return flow to Redbank Creek and will commence downstream of the railway culvert.

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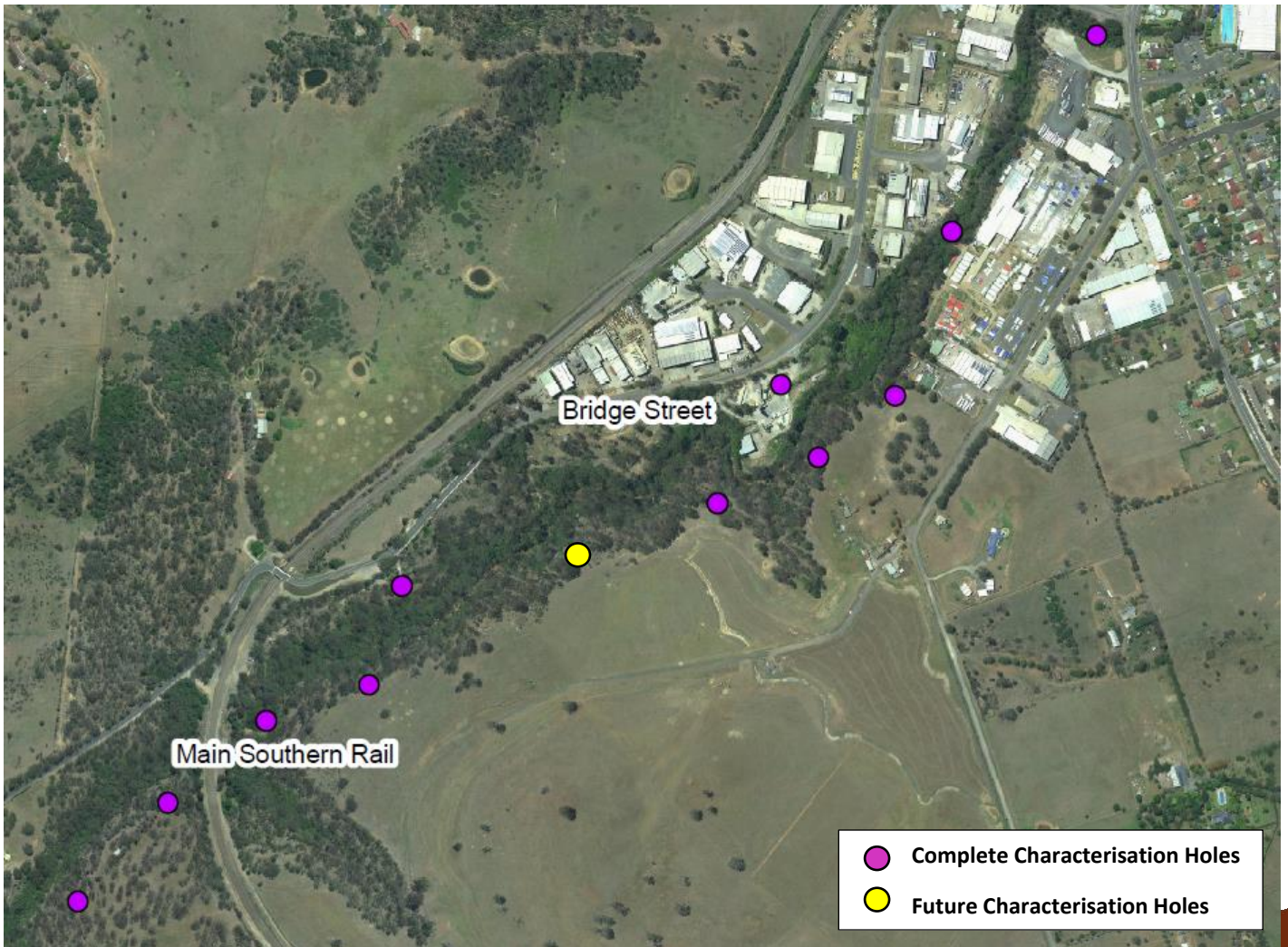


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## Characterisation Drilling Locations



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