



SIMEC

Myrtle Creek

Corrective Management Action Plan

December 2020 | Newsletter # 14

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Project Background

Tahmoor Coal Pty Ltd (**Tahmoor Coal**) completed coal extraction below Myrtle Creek between 2004 and 2015. Longwall mining has caused subsidence impacts that has resulted in some pools along Myrtle Creek retaining water only after heavy periods of rain.

To address this, Tahmoor Coal prepared a Myrtle Creek Corrective Action Management Plan (**Myrtle Creek CMAP**) that outlines proposed rehabilitation works, including pool mapping, photogrammetry and surveying, characterisation and pool rehabilitation works.

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 community consultative committees.

Pool 23 Rehabilitation

Remediation of the controlling rock bar at Pool 23 was completed in early February 2020. The works consisted of drilling boreholes up to 16 meters below the creek bed for geotechnical testing to identify the location and size of fracturing. Fractures were then filled using an approved polyurethane injection resin (PUR). PUR has been used successfully for creek rehabilitation in Sydney Catchment Authority areas as it has minimal ecotoxicological effects and has proven highly effective.

Since its completion, Pool 23 has returned to its pre-mining water level. It will continue to be monitored in a variety of climatic conditions.

Progress Report – Stage 2

Myrtle Creek CMAP Stage 2 involves investigation drilling and remediation of six pools along Myrtle Creek (see overleaf). The entire project is expected to return pool holding capacity to selected pools and increase surface flow along Myrtle Creek.

Investigation drilling at Pools 10, 11, 12a, 14, 18 and 20 has been completed early December 2020. Geotechnical testing is currently underway to map the fracture network that may exist in the rock strata prior to starting the work. The geotechnical investigation is expected to be completed early January 2021.

Following the investigation work, planning and implementation of a grout curtain wall will be constructed at Pool 20. Works will be based on the successes at Pool 23 and will aim to return pool holding capacity and surface flow. It is anticipated that the remediation works for Pool 20 will start in March 2021.

Learnings from Pool 20 works will be utilised at the remaining pools. The remediation of all pools is expected to be completed by mid-2022.

For More Information

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Myrtle Creek CMAP Stage 2 Remediation Sites



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