



SGM Environmental

Creating enduring value

SGME VALUES



PROJECT CASE STUDY: Erosion and Sediment Control Management Plan for Operation and Closure

SGM Environmental Pty Limited (SGME) did an erosion and sediment control management plan (ESCMP) for the operation and closure of a coal mine.

Site description: The mine is a conventional strip-mining, open-cut operation with a single dragline removing overburden to exposed coal, located in the Bowen Basin. The mine has many stockpiles of stripped topsoil, spoil piles, coal washery wastes and reject dumps.

The problem: During mining, soil and mineral waste (the sediment) can erode and deposit onto nearby lands or into waterways which transports the sediment into the receiving environment. Without adequate planning and design for land disturbance activities, stakeholders could be subjected to ongoing costs for the sediments removal to keep water quality at acceptable levels.

What SGME did: The ESCMP defined the overall erosion hazard of land disturbance and provided appropriate management strategies to make sure adverse effects in the receiving environment are controlled. The ESCMP assisted in meeting the mine's environmental obligations in accordance with the conditions of their Environmental Authority.

The erosion and sediment control program included incident response and administrative procedures including monitoring, reporting, review and role responsibilities.

