

## APPLICABLE AMD ABATEMENT MEASURES

The following seven abatement measures (six preventive and one treatment) were considered in the FWPCA Report to be applicable to current Study Area problems and conditions:

### Preventive measures

- Reconstruct stream channels
- Construct surface water diversion ditches
- Restore strip mines
- Move refuse into strip mines
- Excavate. and restore subsidence areas Construct impermeable seal on ground surface

### Treatment measure:

- Chemically neutralize, oxidize, and settle mine drainage in treatment facilities

These seven measures were used in developing abatement plans in the FWPCA Report. Because of subsurface and surface conditions as well as the relative costs established in the original study, the construction of an impermeable seal on the ground surface was not considered in this study.

In determining the applicability of preventive measures for this study, the Department of Environmental Resources requested that consideration be given to inundating deep mine workings. The unavailability of mine maps precluded a substantive evaluation of this measure since its effectiveness could not be estimated with any degree of certainty. If mine maps become available, the applicability of inundating deep mine workings can be evaluated further.

For similar reasons as well as the anticipated degree of accuracy in predicting effectiveness and relative treatment costs, other abatement measures were not considered applicable for the Study Area.