

Soil and Land Survey

A range of activities are required to collect soil survey information, including **minesites** and **land developments**. The type of assessment and the level of detail required can vary greatly, and it is essential that the appropriate level of investigation is recognised and applied.

For **minesites**, Landloch Pty Ltd has stressed the importance of material characteristics for many years, and soil survey is an important component of Landloch's material characterisation capabilities. Information on the spatial distribution of soil profiles and properties across a mine lease can be used during planning and operation phases of a minesite to assist decision making on topsoil management and to guide rehabilitation strategies. Information from soil assessments can also be important inputs to detailed considerations such as water balances and cover design for tailings dams and waste dumps.

The intensity of sampling and level of analysis can be varied to give most detailed information on areas subject to greatest impact, and to provide more general information for larger (surrounding) areas.

For **land development** activities, Landloch's land assessment specialist has enormous experience in the identification of Good Quality Agricultural Land for proposed development areas. Landloch staff have wide experience with the interpretation of soil data for construction activities. Typical issues for construction include soil erodibility, potential for development of tunnel and gully erosion, amendments to deal with soil acidity, and fertiliser strategies to deal with macro- and micro-nutrient deficiencies. Fertiliser strategies can be developed to suit areas where off-site nutrient movements are of concern, and recommendations can be made with respect to plant species to provide a range of ecosystem functions, ranging from slope stabilisation to sediment trapping and runoff reduction.

Landloch's land assessment specialist has over 30 years experience in the classification, description, and mapping of soils and land capability across Australia. Landloch specialises in providing cost effective and high-quality land mapping for urban, rural, and remote locations within Australia.



For more information on soil and land surveys, contact:

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