

The Design and Development of an Enviro-Fill Landfill Facility.

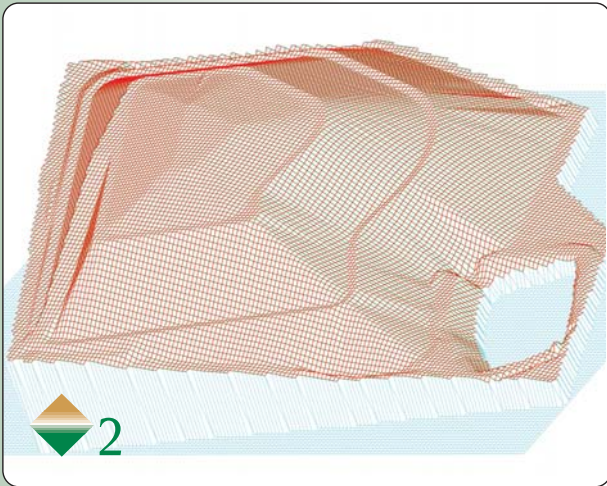
For a landfill facility to operate safely and efficiently over an operational life-span measured in decades it must be designed, planned and engineered with great precision.

The exact location of the very last waste deposit must be known before the arrival of the very first.

The following example illustrates Enviro-Fills' ability to develop such facilities.



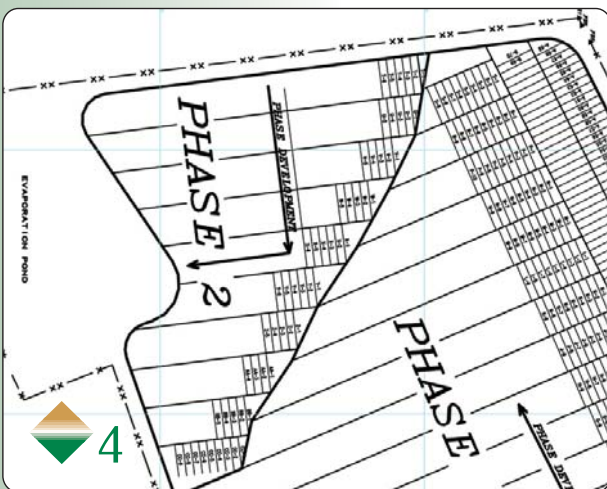
In order to design and compile a future operational plan for a landfill, an accurate survey must be executed and a drawing produced to act as a departure point from which the final model and end-use plan can be determined.



A final model reflecting the available airspace and eventual profiles is determined when all factors including current waste stream and the availability of cover material are calculated into the final equation.



The final model is implemented by adopting a phased approach. The phases enable a cost-effective operation by ensuring that all resources are utilised efficiently, based on accurate technical data calculations.



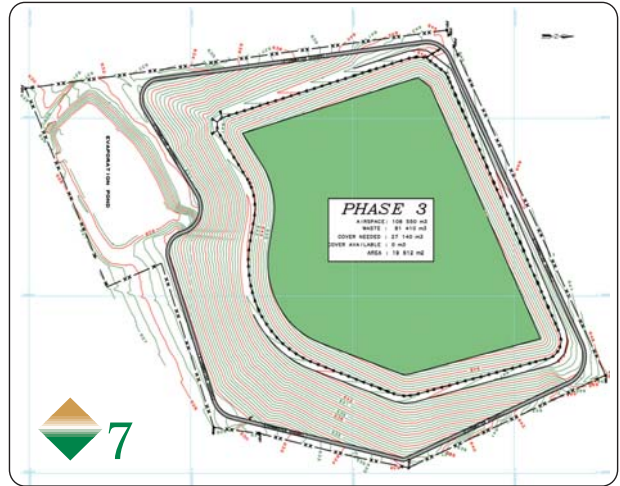
A systematic approach to the operation of each phase is adopted. Factors including waste type and the size and frequency of vehicles entering the site determine the size and number of individual cells to be utilised, and their operational sequence.



The operational plan is monitored ensuring that predetermined excavation and final height levels are achieved during each phase. This ensures the maximum efficiency in the utilisation of available cover materials.



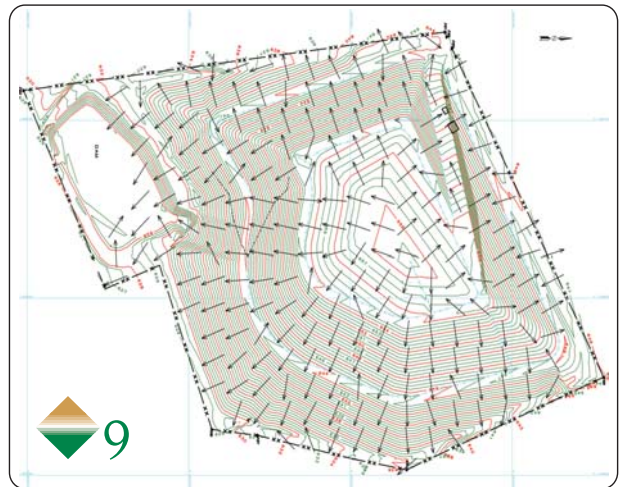
The projected contour plan at the conclusion of phase 2 operation.



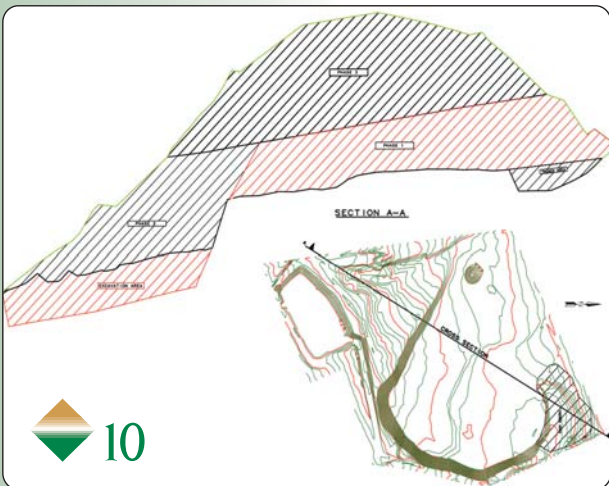
The third and final phase of the project.



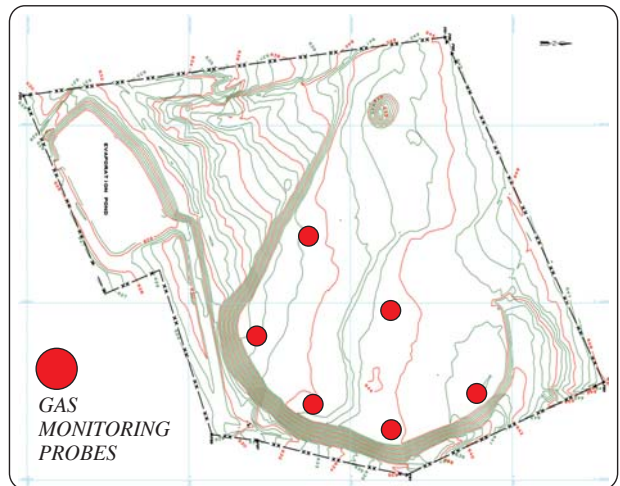
The phase 3 contour plan accommodates the final volumes of waste deposition and includes the eventual capping profiles required for efficient precipitation run-off after site closure.



The precipitation and storm water control plan guides the operator as to how run-off will be directed to minimise the possibility of environmental damage through pollution.



The schematic cross section of the project indicates how the required final profile will be achieved as each phase of operation is systematically implemented.



A series of probes are installed on the landfill site to detect and monitor the methane gas produced by the body of deposited waste. Venting systems are continuously upgraded as the landfill is developed to ensure optimal utilisation of the gas.

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