

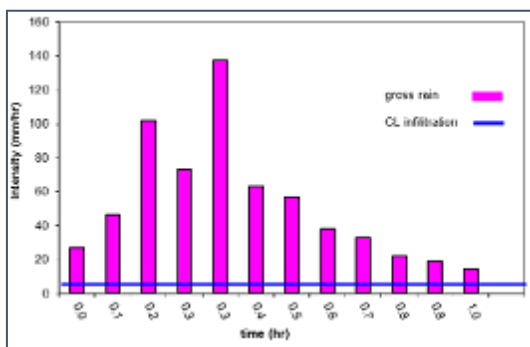
GEOHART is a geotechnical consulting business providing an efficient geotechnical, geomechanical consulting service through innovation and experience for mining and civil projects specialising in the areas of:

- Catchment assessments
- Rainfall intensity and surface run-off assessment
- Drainage design and assessments
- Borehole supervision and field logging
- Geotechnical logging of core and inclusion of core data
- Instrumentation and monitoring for groundwater and slope stability
- Groundwater sampling and monitoring
- Laboratory testing of samples
- Open cut mine slope stability assessments (e.g. high & low walls and waste dumps)

We have the capability of providing clients an excellent geotechnical, hydrology and hydrogeological service for surface mine planning, development and risk management.

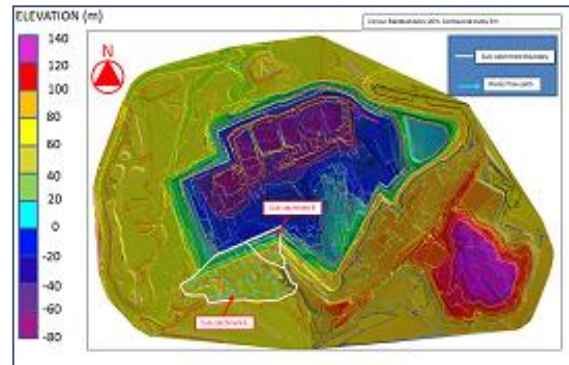
Assessment of Catchment Areas:

- Rainfall intensity assessment



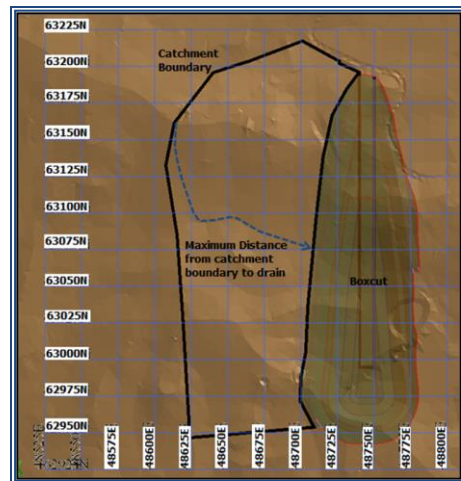
Hyetograph for rainfall analysis.

- Determination of catchment areas using Surpac software and conduct catchment basin analysis.

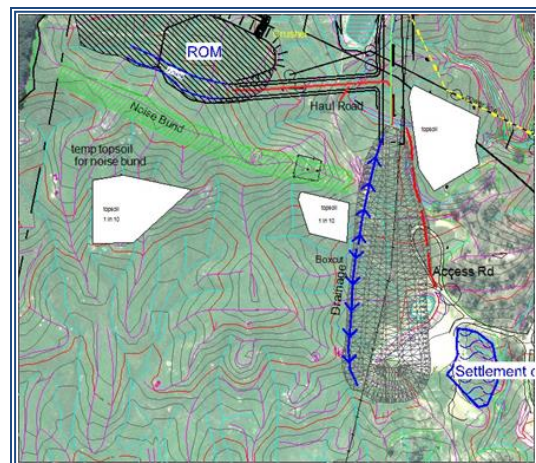


Catchment analysis using Surpac.

- Storm water run-off modelling
- Determination and planning of drain critical paths.



- Storm water run-off modelling
- Determine and plan drain critical paths.



- Assess practical drainage implementation and stability assessment.



- Oversee grading of drains and site supervision.



- Geohart has further experience in aquifer testing (pump testing or field testing) and interpretation.



- Borehole location (design) and supervision.
- Mine dewatering and impact assessment
- Well field design and development
- Aquifer recharge and sustainable yield assessment
- Water sampling and groundwater monitoring projects inclusive of piezometer and inclinometer installations.

- Long term monitoring; Numerical modelling – pit inflows, zone of influence; coal seam gas associated water issues; Water classification – type and age (chemical and bacteriological); Isotope and tracer studies; Re-injection and carbon sequestration.

