

# Atherstone Estate- Trenching



## PROJECT SUMMARY

Atherstone Estate is a new community located in Melton, 50km's from Melbourne's CBD.

GCM mobilised a Wirtgen 2500 Surface Miner (2500SM) to undertake trenching work to allow the installation of 2 x 1350mm diameter sewer's to be connected to existing infrastructure.

Ground conditions in these areas are renowned of being difficult to work in and are made up of Basalt shelves and clay soils with basalt floaters throughout the site. Due to the close proximity of housing (within 50 metres) a solution was looked for which would minimise disruption on these residents. Drill / Blast and Hammering would not have only caused major disruption with noise but also a major increase on an already tight program.

The Surface miner was fitted with GPS to ensure level control and location of the trenching was to exact requirements. GCM also fitted the surface miner with a dust control system to ensure environmental requirements were met, working alongside existing residences, minimising dust was a key point in delivering the project.

GCM set upon undertaking these works as quickly and safely as possible with a big intent on minimising disruption to residents. We were proud to be able to deliver the full trench in under 1 week which resulted in a massive program win for the client. An added bonus of utilising a surface miner for these works was the milled material produced by the 2500SM was suitable to be used on site as fill.

**Case Study**  
GCM17-012

**Year**  
2018

**Client**  
BMD

**Site/Location**  
Melton

**Region**  
Victoria

**Scope**  
Trenching

**Volume**  
12,000 BCM

**Production**  
182 bcm per hr.

**Rock Type**  
Basalt

**Rock Hardness**  
30 to > 90 MPa

**GET Consumption**  
10 bcm per pick

**Mechanical Availability**  
90%

**Safety**  
Zero LTIs

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