

# GREAT WHITE KAOLIN PROJECT

## WATER AND POWER

*The Tenement Holder must during construction and operation ensure no adverse impact to local water supply from mining operations water usage.*

### WATER

Water supply is proposed to be sourced from the SA Water trunk main at Poochera. This is based on an operational demand of up to 10 L/s.

During Stage One, water will be trucked in from Poochera in conjunction with the upgrade and maintenance of the Poochera – Port Kenny Road. For Stage Two, a new water pipeline is planned from Poochera to site.

The proposed pipeline will be installed parallel to the existing water network along the Streaky Bay Road and along the road verges of the Poochera – Port Kenny Road to site. In consultation with SA Water, duplication of the current pipeline along the Streaky Bay Road from Poochera is planned.

An MPL is planned to enable the construction of the new pipeline along the Poochera – Port Kenny Road.

The new connection from the trunk main at Poochera is expected to supply water to the operation without adverse impact to existing users.

### GROUNDWATER

Groundwater is present in aquifers within the Garford Formation and underlying fractured granite which receive limited recharge from local winter rainfall. Recent water investigation bore installation and pump testing indicate the fractured rock aquifer beneath the proposed Mining Lease (ML) is compartmentalised, with fractures not uniformly connected.

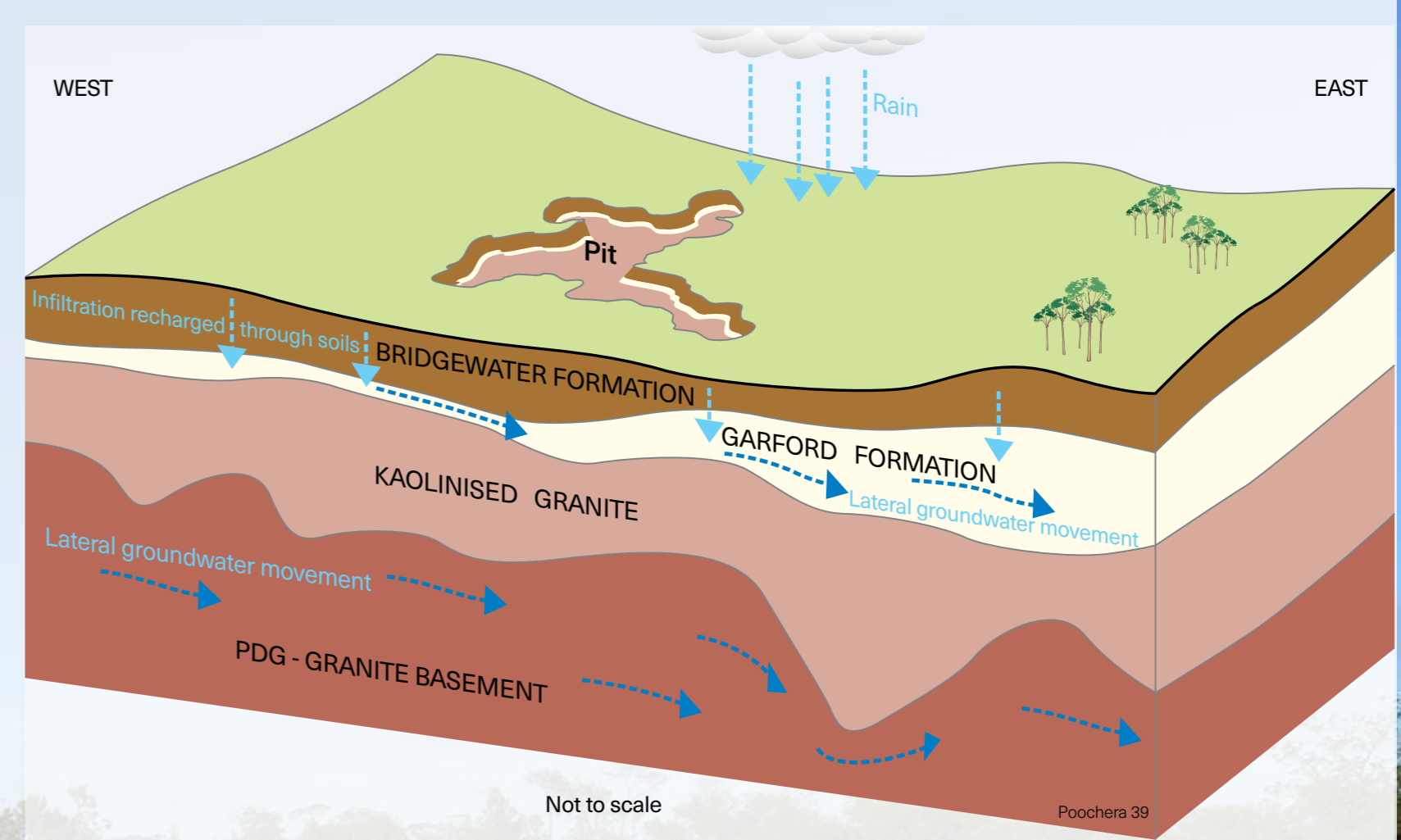
Water quality is suitable for industrial purposes but marginal for stock and unsuitable for human consumption.

Groundwater consultants Aldam Geoscience have modelled groundwater beneath the ML and extending 8 km east-west and 6 km north-south.

Bores within the area have been surveyed and the closest groundwater user is located approximately 4 km south of the Proposed Development.

Over the life of the mine, modelling indicated that up to 0.1 m of drawdown is possible within the Garford formation, at 2 km from the proposed pit.

Consequently, groundwater drawdown is not expected to impact identified existing users of groundwater.



### WATER MANAGEMENT

Proposed Development water uses include:

- Dust suppression
- Road construction
- Stage Two – wet processing operation.

The proposed processing plant will recycle ~90% of water used.

### POWER MANAGEMENT

On-site gas turbine generation is the most likely power solution for the Proposed Development. Other options assessed have included connection to the power grid and diesel generators.