

# NOISE HANDOUT

## NOISE AND BLASTING ASSESSMENT

A Noise and Blasting Assessment for the Modification was undertaken by Renzo Tonin in accordance with the *Industrial Noise Policy, Interim Construction Noise Guideline and the Road Noise Policy*.

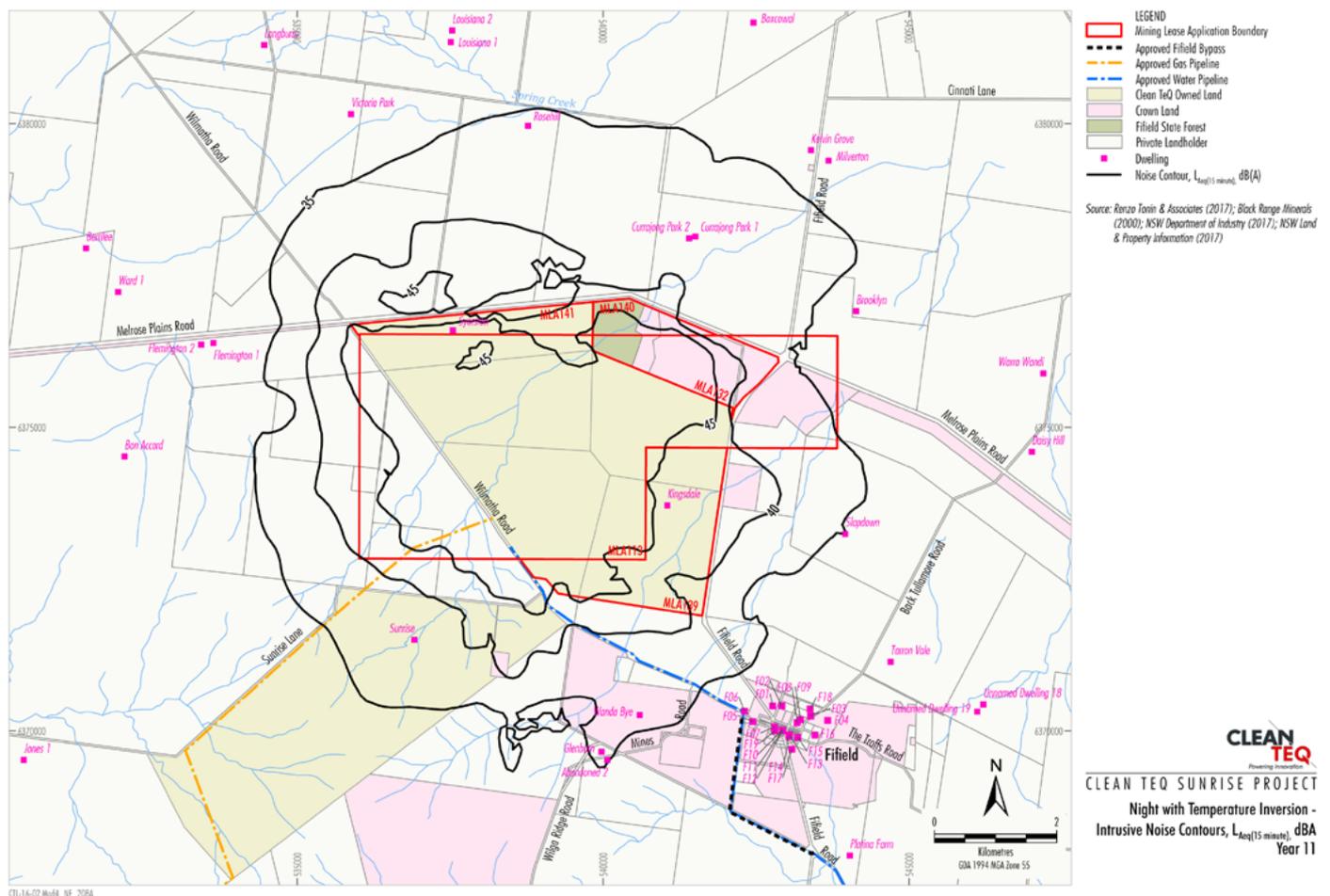
The Modification would not significantly change mining and processing operations at the mine and therefore noise emissions are unlikely to significantly change. The Modification would include the addition of blasting at the mine site.

### EPA Impact Assessment Criteria

Contemporary EPA impact assessment criteria have been considered in the Noise and Blasting Assessment.

### Construction Noise

Predicted construction noise levels at all receivers were found to comply with the relevant noise management levels described in the *Interim Construction Noise Guideline*.



### Operational noise

The Environmental Noise Model modelling system was used by Renzo Tonin to assess potential noise impacts associated with the modified Project.

The model considers the modified mine and processing facility operations, proposed mitigation measures, local landform and meteorological conditions, and the location of privately owned receivers.

Three operational scenarios were selected in consideration of maximum potential noise emissions to evaluate the potential impacts at the nearest privately owned receivers over the life of the Project. For each operational scenario, day, evening and night-time periods under calm and adverse meteorological conditions were considered.

Maximum case impacts were predicted to occur during the night under adverse meteorological conditions (generally occur in winter).

During adverse meteorological conditions, operations would be modified to minimise noise impacts. With the modified operations, seven negligible exceedances (i.e. 1 to 2 dBA above criteria) are predicted. The NSW Government defines negligible exceedances as they would “not be discernable by the average listener and therefore would not warrant receiver based treatments or controls”.

#### *Road Noise*

The road noise assessment considered road noise associated with operation of the modified Project.

No exceedances of the relevant total noise criteria or the incremental increase criteria were predicted.

#### *Blasting*

No exceedances of the relevant overpressure and vibration criteria are predicted.

### **NOISE MANAGEMENT PLAN AND BLAST MANAGEMENT PLAN**

Clean TeQ would prepare a Noise Management Plan in consultation with the EPA for the modified Project and it would include: noise mitigation measures; a noise monitoring program; protocols for measuring environmental performance and triggers for the investigation of additional mitigation measures; and complaint management protocols.

Clean TeQ would prepare a Blast Management Plan in consultation with the EPA for the modified Project and it would include mitigation measures and blast monitoring program.