



## Noise and Vibration Assessment and Expert Witness Evidence for a Quarry near Clitheroe

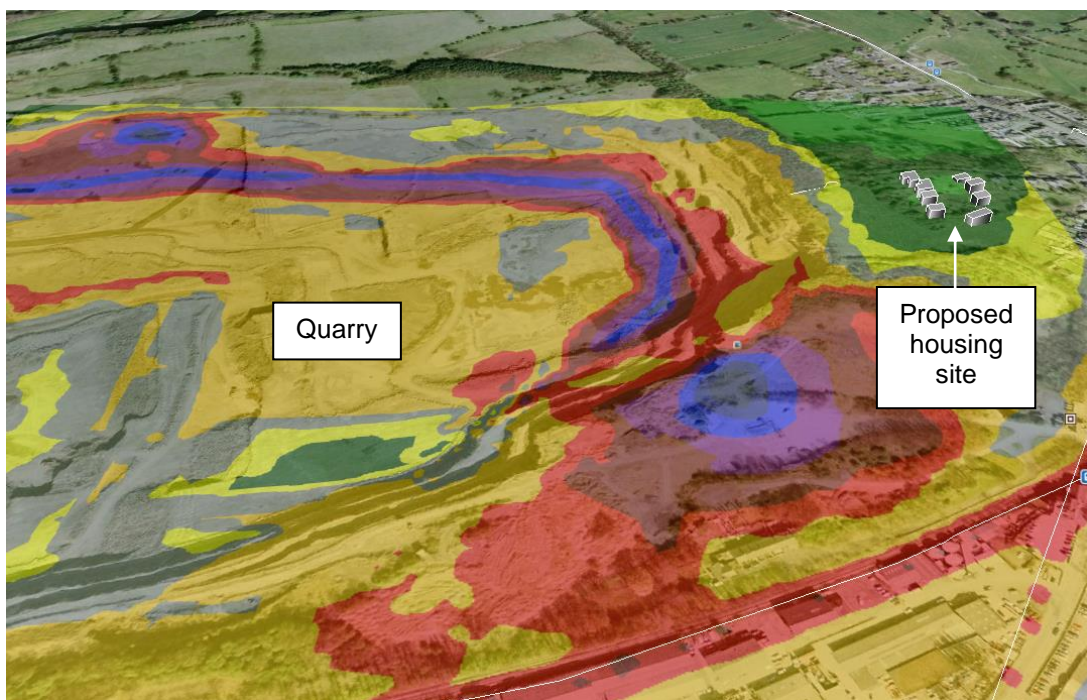
### Background

Miller Goodall Ltd (MGL) was asked to provide technical advice on noise and vibration for a plot of land proposed for 10 residential properties, next to a large mineral quarry outside Clitheroe. The application had been refused planning permission due to concerns that the development would place a constraint on the quarry and effectively prevent the extraction of minerals. The advice was to be used to inform a public planning inquiry.

### Action Taken

Noise and vibration measurements were taken on the proposed housing site to determine the potential impact of noise and vibration from the quarry on future residential properties. Measurements of noise were taken during the normal working activities of the site and vibration measurements were taken of blasting from the quarry.

The noise measurements were used to build and validate a noise model for the site which showed the extent of the noise from various quarrying activities. The noise predictions helped to show the impact of the 100 m high quarry face on reducing the noise impact to residents. Vibration measurements were also undertaken on the site. These were taken using an accelerometer, with measurements taken of the blast at the closest location to the proposed housing.



### Summary of Findings

The noise predictions helped to show the impact the quarry face had on reducing noise from quarrying activities. Without this information, it would have been difficult to assess to what extent the noise would impact on the proposed residential dwellings. Vibration measurements also helped to show that even at the worst case, with the blasting close to the proposed boundary, the levels of vibration monitored were well within guidelines. The application was allowed at appeal.

For more information about us, visit our website at [www.millergoodall.co.uk](http://www.millergoodall.co.uk). If you would like to discuss how we can help your project, please contact Miller Goodall on 01204 596166 or email [info@millergoodall.co.uk](mailto:info@millergoodall.co.uk).