

To:

Barnsley Metropolitan Borough Council
(BMBC)

CC:

Project name:

Pogmoor Crossroads

Project ref:

60545510

From:

Pam Lowery – Principal Acoustic Consultant

Date:

23 July 2018

DRAFT

A628 Dodworth Road / Broadway Junction Improvement

Subject: Noise and Vibration Assessment – Initial findings and mitigation options

Introduction

AECOM was commissioned to undertake a noise and vibration assessment for the proposed junction improvements to the existing traffic-light controlled junction at the Broadway/Pogmoor Road crossroads, to the east of the M1, junction 37. Consultation on the noise and vibration assessment methodology was undertaken with Environmental Health (Pollution Control), Regulatory Services at BMBC, who confirmed the methodology was appropriate, and an initial assessment was progressed during June 2018.

However, further assessment has been necessary due to changes in traffic forecasts, the latter made following discussions between BMBC and AECOM during June. This further assessment is currently ongoing, with the opening year (2019) noise level calculations now completed and the future year (2034) noise level calculations expected to be complete on 24th July 2018.

Outline results

An analysis of the opening year results has identified that significant adverse effects are predicted to occur as a result of noise from the proposed junction improvement. These likely significant effects are predicted to occur in the following locations:

- Properties to the north and east of the new gyratory (St Martin's Close and nearby roads to the north and Grosvenor Walk and nearby roads to the East). The cause of these likely significant effects is the introduction of a new noise source (the gyratory).
- Properties along Dodworth Road, which are also within a Noise Important Area. The cause of these likely significant adverse effects is the increase in traffic flow on Dodworth Road, which result in increases in noise levels of at least 1dB(A) at properties which are already predicted to be exposed to high noise levels.

Mitigation options

Two barrier options are currently being considered as possible means of removing or reducing the significant adverse effects predicted to occur at the properties to the north and east of the gyratory of the scheme. The modelling of each barrier options is expected to be complete by 24th July 2018.

The installation of barriers along Dodworth Road is unlikely to be feasible. Therefore, other means of mitigating the significant noise effects predicted to occur along Dodworth Road need to be considered, such as the offer of noise insulation measures to affected properties.

Reporting

Once all preferred mitigation options have been agreed with BMBC, the Noise and Vibration assessment report is programmed to be finalised and submitted to BMBC during week commencing 6th August 2018.