

What's happening?

Best practice at:

 <p>BCS Design Ltd Building Civil & Structural Engineering Consultant</p>	<p>In partnership with</p>	 <p>carillion</p>
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Overview:

BCS Design was contracted by Carillion to complete the GRIP 5 design for the Stabling and Depot site at Brighton as part of Thameslink Key Output 2.

The GRIP 5 design EMP was put in place early on and listed key environmental considerations that should be considered. The main problem associated with Environmental Management Plans is typically that they are voluminous and confusing- especially to engineers. It was agreed at the start that the designers will be given a list of simplified design actions aimed at achieving environmental objectives.

Newly installed equipment would be in close proximity to line side residents and it was decided that further noise assessments should be undertaken in line with BS4142:1997: 'Method for rating industrial noise affecting mixed residential and industrial areas'

Benefits:

Noise from Carriage Wash Machine, train start movements and the dc module substation were assessed.

The fan from the DC Module was confirmed at 70dB (A) at 1 meter

The designers initially proposed a timber screen to the full height of the DC module 3.2 meters in an L shape around the module

The noise assessment established that after this intervention noise levels would be of marginal significance

The early intervention of designers ensured that no further acoustic intervention was required and that lineside neighbours were protected from operational noise

Meeting our objectives & targets:

- *Protecting land air and water from pollution and other negative impacts*
- *Make a lasting positive contribution to the neighbours and communities we serve*