

Annex A

## Construction Noise Prediction Assumptions

In developing the assumptions for construction noise predictions the construction plant team information that were used in the ES for the Stublach Gas Storage project (G2) ES <sup>(1)</sup> was reviewed. A range of plant was listed with sound power values referenced to BS5228. However, the predictions were carried out based on smaller combinations of construction plant to represent individual activities. The composition of these plant teams was not stated, so the approach that has been taken in this PEIR is to conduct a worst case assessment assuming that a noisy plant team with a sound power value of 125 dB(A) could be required. According to the G2 ES, 125 dB(A) is the source term for Scrapers which are likely to be the noisiest type of equipment used during construction, which would be likely to dominate noise levels when it was in use.

This value has been assumed for most activities, and a lower noise level has been assumed for the construction of the overhead power lines to reflect the smaller teams required to construct these.

The assumed construction team source noise levels are shown in *Table A1.1*.

**Table A1.1** *Table of Construction Sound Power Assumptions*

<b>Activity</b>	<b>Assumed Sound Power Level dB L<sub>Aeq</sub></b>
Construction of the Gas Plant, Solution Mining Compound, Substation, Pipelines and Road	125
Construction of the Overhead Power Lines	115

(1) Stublach Gas Storage Project Environmental Statement, RPS, 2005.