

Contract HK 12/02
Central Reclamation Phase III – Engineering Works
Environmental Permit No.: FEP- 01/122/2003

**Certification and Verification for FEP Condition 3.11 –
Temporary Noise Barrier for Culvert F Extension Piling Works (North of City Hall)**

ET Leader Certification

This certification references the Contractor's submission (Ref. H2189/C1/24192/MP/TOW/HYT/ST/ec dated 31 Jan 2007) of documentation and drawings showing the exact location and details of temporary noise barriers to be erected to mitigate construction noise impacts on the City Hall as per Condition 3.11 of the EP (FEP-01/122/2003).

Condition 3.11 in the project Environmental Permit (FEP-01/122/2003) states:

“3.11 Three sets of drawings of appropriate scales, say 1:500, showing the exact locations and details of temporary noise barriers to mitigate construction noise impacts on the Central Barracks and City Hall respectively from the following works (as shown in Figures 8 to 10) shall be deposited with the Director:

- (a) Road P2 and drainage works to the north of Central Barrack (Figure 8);
- (b) Central-Wan Chai Bypass and drainage works to the north of Central Barrack (Figure 8);
- (c) Hong Kong Station Extended Overrun Tunnels to the north of Central Barracks (Figure 9);
- (d) North Island Line protection works to the north of City Hall (Figure 10);
- (e) Culvert F extension piling works to the north of City Hall (Figure 10);**

The temporary noise barriers shall be in the form of site hoardings, with heights ranging from 3 to 5 m, surface density of at least 7 kg/m² and cranked top.

The drawings showing the temporary noise barriers shall be certified by the ET Leader and verified by the IEC as conforming to the conclusions and recommendations in the EIA Report. These drawings shall be deposited with the Director at least one month before the construction of the above works.”

As specified in the Contractor's submission, the barrier shall be constructed in the form of site hoarding, with a height of approximately 3.9 m and cranked top. The barrier shall be formed using 2 layers of WAB 5 kg/m² Barrier Mat. Each mat has an average sound reduction index (SRI) of 22 dB, which is equivalent to the SRI provided by a 7 kg/m² steel panel (Ref. EPD's Guidelines on Design of Noise Barriers).

Based on the above information, we find the drawings of the temporary noise barrier to be conforming to the recommendations in the EIA Report.

The JV is reminded of proper coupling amongst the individual noise barriers to avoid forced vibration caused by the possible ground-borne agitation. The 60m long continuous noise barriers shall be shifted according to works progress to block the line of sight of the noise sensitive receiver from the noise sources during the piling works.

Susana Bezy, Environmental Team Leader:



Date: 12 Feb 2007

IC(E) Verification

I hereby verify the above information.

Bill Douglas, Independent Checker (Environment):



Date: 12 Feb 2007