

SCL Protection Works at CBTS - Proposal for:

- (1) Alternative Impact Noise Location**
- (2) Alternative Air Monitoring Location**
- (3) Suspension of Water Quality Monitoring Station**

Date: 22 November 2011

A. Background

The SCL Protection Works at CBTS (the Project) is to temporarily reclaim land for construction of a section of tunnel box for Shatin to Central Link by cut-and-cover method at the crossing above the Central-Wanchai Bypass (CWB) tunnels within the Causeway Bay Typhoon Shelter (CBTS). The SCL tunnel box at the CBTS will cross over the CWB tunnels. The CWB has commenced in mid-2010 and scheduled for commissioning in 2017. In order to minimize the extent and duration of temporary reclamation under the SCL project for compliance with the Protection of Harbour Ordinance, the construction of the 160m SCL tunnel box at the crossing over CWB tunnels and the associated works, including temporary reclamation has to be constructed in conjunction with the CWB construction works in around late 2011 to early 2014. Subsequently, the SCL Protection Works has been entrusted to the CWB. The Contractor of CWB will undertake construction works for both the Project and CWB.

Environmental monitoring is being implemented for CWB in the Causeway Bay area. According to their latest EM&A programme, impact noise, air quality and water quality monitoring are undertaken at Noon Gun Area (M2b), CWB PRE Site Office (CMA3a) and cooling water intake for Excelsior Hotel & Hotel (C6) and Windsor House (C7). As discussed previously, the locations of the temporary reclamation works areas and duration of the construction works for both the CWB and SCL Protection Works are overlapped. In order to ensure better site management and environmental compliance, the IEC and ET for CWB have been employed for the Protection Works to undertake the EM&A works. Moreover, the environmental monitoring stations and results of CWB would be shared for this project in avoidance of inconsistency.

B. Alternative Noise Impact Monitoring Location:

According to Table 3.1 of the EM&A Manual of the SCL Protection Works at CBTS

(hereinafter referred to as “the EM&A Manual”), the baseline and impact noise monitoring should be carried out during the construction period at Macro Polo Mansion (M2, previously known as NM1). With some project developments and EPD’s approval, the baseline monitoring has been conducted at an alternative location, Caltex Petrol Filling Station (M2a) as shown in **Figure 1**. However, access to the petrol filling station would not be available further to completion of the baseline monitoring. Alternative location for the impact noise monitoring is, thus, necessary.

In accordance with Clause 3.8 of the EM&A Manual, alternative noise monitoring location should be chosen based on the following criteria:

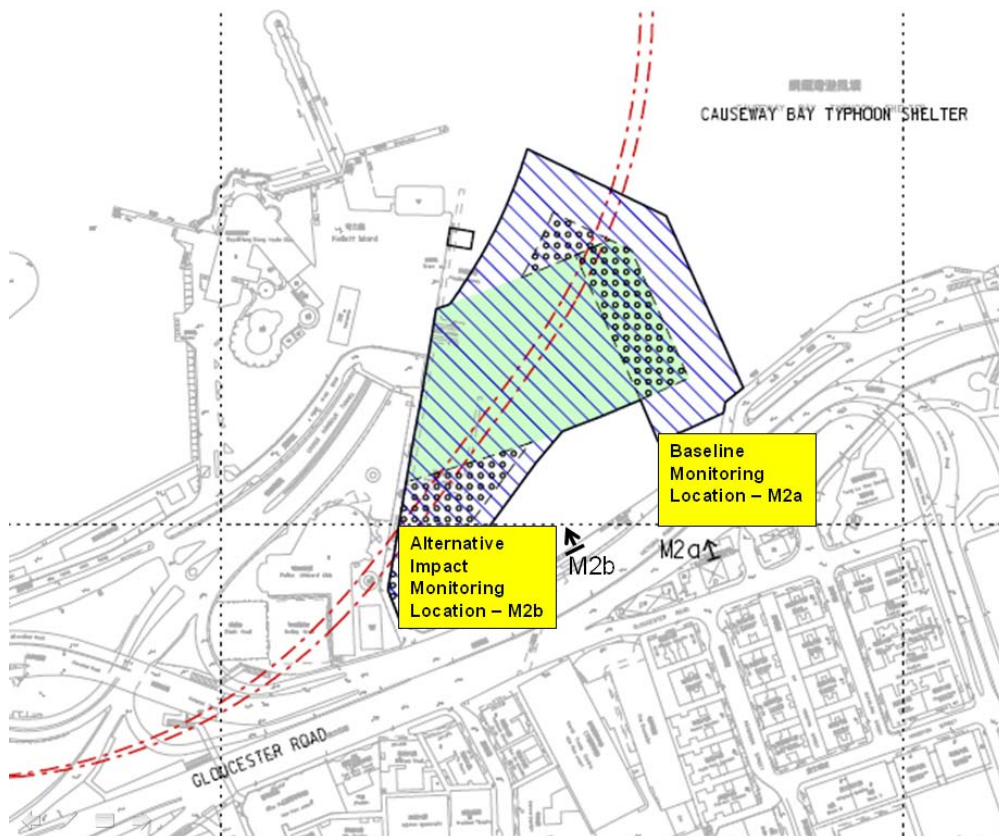
- i. Monitoring at sensitive receivers close to the major site activities that are likely to have noise impacts;
- ii. Monitoring close to the noise sensitive receivers as defined in the Technical Memorandum; and
- iii. Assurance of minimal disturbance to the occupants during monitoring in the vicinity of sensitive receivers.

The nearby noise sensitive receivers (NSRs) to the works area are residential premises along Victoria Park Road. Access to Marco Polo Mansion has been rejected for the baseline monitoring and access to the other premises has also been rejected when they were approached. Whilst the access to the sensitive receivers is exhausted, the alternative impact noise monitoring location has been identified to fulfil the criteria (i) and (ii) above. Noon Gun Area (M2b) is located in the middle of the NSRs along Victoria Park Road and close to the works site where major construction works will be taken place (as shown in **Table 1** and **Figure 1**). Moreover, this location is having lesser influence from traffic noise at Victoria Park Road and is considered to be representative in monitoring the construction noise impact.

Table 1 Alternative Impact Noise Monitoring Station

Monitoring Station	Description	Level
M2b	Noon Gun Area	Ground level

Figure 1 Alternative Impact Noise Monitoring Station – M2b



As recommended in Clause 3.9 of the EM&A Manual, the baseline monitoring and impact monitoring should be carried out at the same position. However, the baseline noise condition is only for reference and to account for cases in which ambient noise level approach or exceed the stipulated criterion of 75 dB. Evaluation of noise impact is in terms of documented complaint and criterion of 75 dB(A). Whilst the baseline level measured at the Petrol Filling Station (M2a) is below 75dB(A) and no correction to the impact monitoring results is made anyway, the baseline noise level at Noon Gun Area (M2b) should be even lower as the location is further away from Victoria Park Road. There is no implication on evaluation of the results of the impact monitoring regardless of relocation of the impact monitoring station. It is considered that the alternative location is acceptable. Moreover, the alternative impact monitoring station selected has fulfilled the requirements under Clause 3.8 of the EM&A Manual and is consistent with the impact monitoring station for CWB.

Based on the reasons given above, the alternative impact monitoring station, M2b – Noon Gun Area is considered appropriate for providing impact construction level for the SCL Protection Works at CBTS.

C. Alternative Dust Monitoring Location:

With reference to Table 4.1 of the EM&A Manual, baseline and impact dust monitoring should be carried out at the Causeway Bay – Royal Hong Kong Yacht Club (CMA3, previously known as AM1) during construction period. Location of the monitoring station is shown in **Figure 2**.

The baseline dust monitoring was conducted at Causeway Bay – Royal Hong Kong Yacht Club CMA3. However, the owner has refused further access for impact monitoring throughout the construction period. Therefore, an alternative location has to be identified.

In accordance with Clause 4.20 of the EM&A Manual, alternative dust monitoring location should be chosen based on the following criteria:

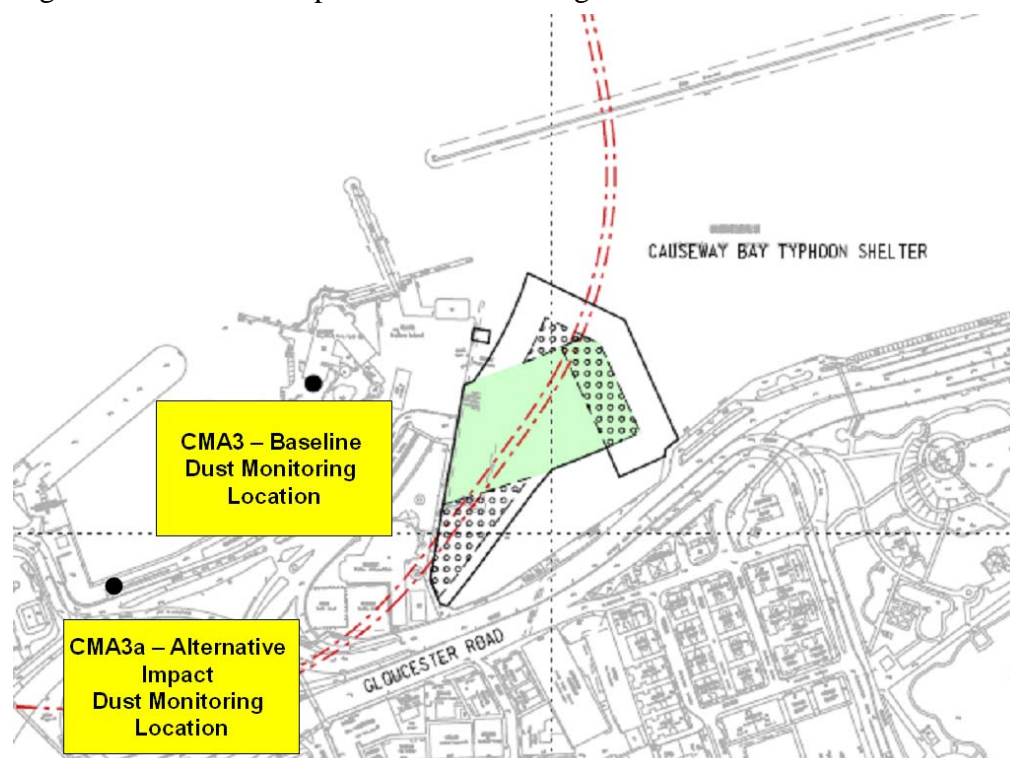
- i. Monitoring at sensitive receivers close to the major site activities which are likely to have air quality impacts;
- ii. Monitoring at the air sensitive receivers as defined in the EIAO-TM; and
- iii. Assurance of minimal disturbance to the occupants during monitoring.

According to the criterion as stated above, the alternative impact dust monitoring location as shown in **Table 2** is proposed for providing construction impact dust level for SCL Protection Works. The location of the alternative monitoring station is shown on **Figure 2**.

Table 2 Alternative Impact Noise Monitoring Station

Identification No.	Construction Dust Monitoring Station
CMA3a	CWB PRE Site Office

Figure 2 Alternative Impact Dust Monitoring Station – CMA3a



The alternative dust monitoring station is considered fulfilling the criterion due to:

- The alternative dust monitoring station is in the vicinity of major site activities that are likely to have air quality impact;
- The alternative dust monitoring station is located at air sensitive receiver as defined in EIAO-TM; and
- The owners and occupants at nearby sensitive receivers (i.e. Police Officer Club – POC and properties along Victoria Road) had declined request of monitoring equipment setup. To minimize disturbance to the occupants, the identified monitoring station is the best available location.

Based on the reasons given above, the alternative impact monitoring station, CMA3a – CWB PRE Office is considered appropriate for providing impact construction level for SCL Protection Works at CBTS.

D. Suspension of Water Quality Monitoring Station:

As confirmed by the owner of cooling water intake for Excelsior Hotel & World Trade Centre (C6, previously known as Station 8), the cooling water intake has been abandoned since May 2011. Please refer to Appendix 1 for written confirmation of

suspension of water quality monitoring station C6. Hence, water quality monitoring would be suspended at water quality monitoring station C6. Only DO monitoring would be maintained at C6 for checking of potential odour concern.

Water quality monitoring of cooling water intake for Windsor House (C7, previously known as Station 9) would be maintained for the Project.

Appendix A –
Confirmation of Cooling Water
Intake Suspension (C6)



Lam Geotechnics Limited

Facsimile

FEP-04/356/2009

Water Quality Monitoring Station C6 – Seawater Intakes for the Excelsior

According to the meeting with the representatives of The Excelsior and Kai Shing Management Services Limited on 17 May 2011, the seawater intake for The Excelsior was no longer in use and replaced by the connected permanent water supply from WSD pipelines since 11 January 2011. Thus, the impact water quality monitoring for the cooling intake - C6 will be terminated effective from 26 May 2011. The enhanced dissolved oxygen monitoring at C6 would be maintained to monitor the odour nuisance during temporary reclamation in Causeway Bay Typhoon Shelter. The meeting minutes with relevant parties is enclosed for your information.

Should you have any enquiry, please feel free to contact the undersigned.

Regards,

Environmental Team Leader
