

Appendix M Investigation Report for Exceedances

Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

Investigation Report of Environmental Quality Exceedance(s)

Ref. No.: A140527_24TSP

Date	27 May 2014
Time	--
Monitoring Location	SR77
Parameter	24-Hr Total Suspended Particulate
Action / Limit Levels	Action Level: 170.3µg/m ³ Limit Level: 260µg/m ³
Measured Level	195.6µg/m ³ (Action level being exceeded)
Possible reason for the exceedance	<p>The construction works being undertaken by another Contractor (under Contract No. TP/2010/02) has been generally completed and operations of Powered Mechanical Equipment (PME) are not observed. Exposed excavation sites, however, are still observed within close proximity of the High Volume Sampler (HVS) of the air quality monitoring station at SR77 (refer to the attached photo taken during weekly site inspection on 26 May 2014). Such exposed earth would release fugitive dust during the sunny weather and the emission would contribute to a higher TSP Level.</p> <p>In addition, a stockpile of spoil was observed immediately next to the HVS (refer to the attached photo taken on 27 May 2014). Handling of such spoils (loading onto trucks for disposal etc) would also generate fugitive dust emissions and due to the short separation distance, such emission would significantly affect the monitoring result .</p> <p>These construction works are anticipated to cause the elevated TSP levels as have been measured by our HVS.</p> <p>Also, the HVS is located close to roadside. When there is traffic, the vehicles may cause disturbance to the nearby open excavation sites, generate dust impact and affect the TSP results recorded by the HVS.</p> <p>On the other hand, the construction works carried out during the monitoring period included backfilling works being carried out at northern side of the site and erection of noise barrier NB71, which were at a much farther distance from the air quality monitoring station at SR77 (refer to the attached location plan showing the works activities of the entrusted portion).</p> <p>As such, the exceedance was unlikely due to the construction works of the project.</p>

Action taken / to be taken	<p>As the exceedance was non-project related, no further investigation and specific remedial measure(s) would be recommended for the Entrusted Works.</p> <p>Nevertheless, the following mitigation measures had been implemented on-site for dust suppression:</p> <ol style="list-style-type: none"> 1. Exposed slopes near the river were covered with impervious sheets; 2. Any open stockpile of construction materials were covered with impervious sheet; 3. Sufficient watering was applied along the haul road.
Remarks	-

Construction works observed within close proximity of SR77 during weekly site inspection (Date: 26 May 2014)



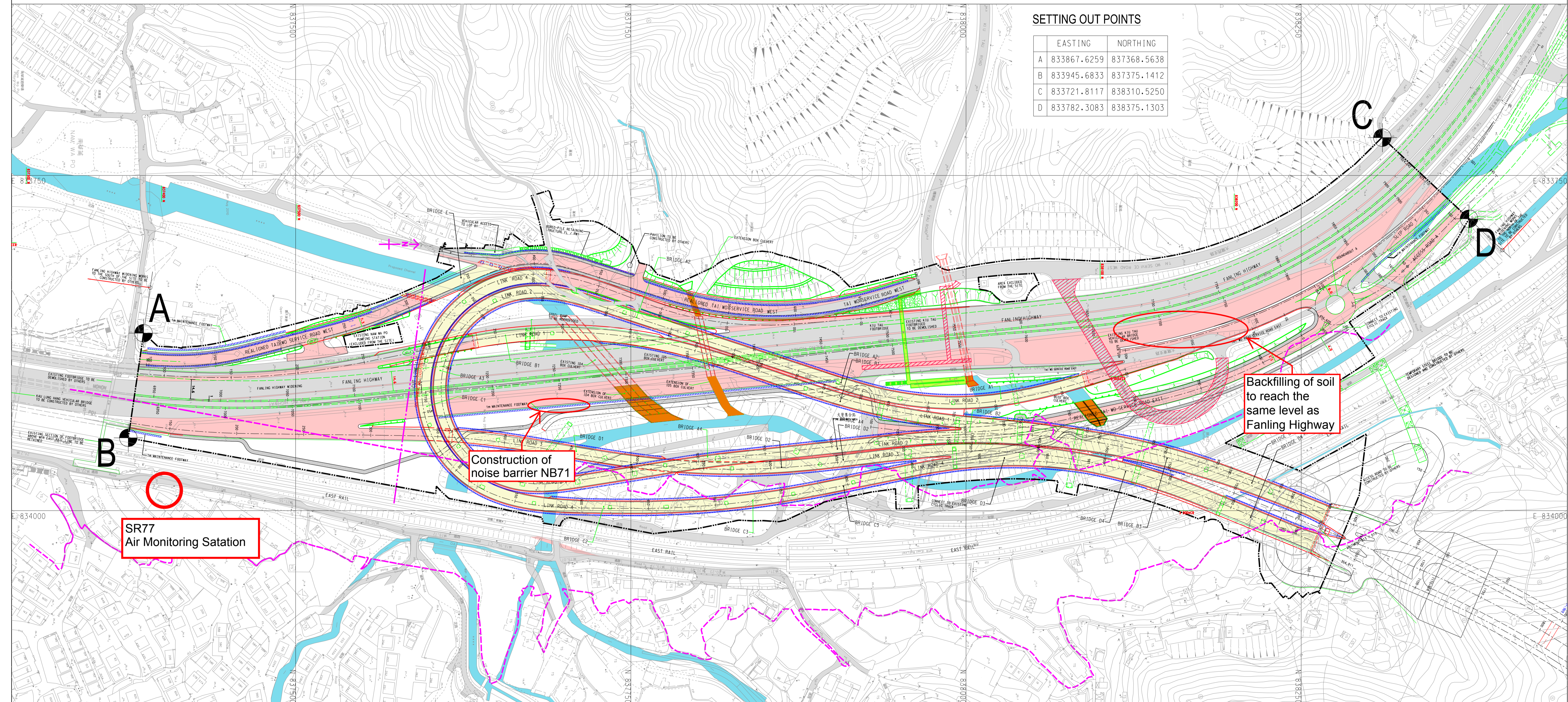
A stockpile of spoils was observed immediately next to the HVS (Date: 27 May 2014)





SETTING OUT POINTS

	EASTING	NORTHING
A	833867.6259	837368.5638
B	833945.6833	837375.1412
C	833721.8117	838310.5250
D	833782.3083	838375.1303



Backfilling of soil to reach the same level as Fanling Highway

Construction of noise barrier NB71

SR77
 Air Monitoring Satation