

## Measured Background Noise Levels

Noise surveys were carried out in October 2013 and March 2014 to investigate the background noise condition of the surrounding environment and the Project Area. To provide a better representation of the background noise levels, measurements were conducted on a weekday and Sunday at different time periods, including when the existing Ocean Park is in operation. It was observed that noise from the existing Ocean Park were not noticeable at all measurement locations. The baseline noise measurement locations are shown in **Figure 5.2**.

The noise surveys were undertaken using Type 1 sound level meters, namely Rion NL-31. During each survey, the sound level meter was checked using an acoustic calibrator generating a sound pressure level of 94.0 dB(A) at 1kHz immediately before and after noise measurement. The measurements were accepted as valid only if the calibration levels before and after the noise measurement were agreed to within 1.0 dB(A). The sound level meters and acoustic calibrators are calibrated in accredited laboratories yearly to ensure reliable performance. The measurement results are shown in **Table A5.1**.

Table A5.1 Measured Background Noise Levels

Location ID	Location Description	Time Period	Date	Start Time	*Measured Noise Level in $L_{eq(30min)}$ , dB(A)	Background Noise adopted at NSR
A	Victoria Shanghai Academy (facing Tai Shue Wan) <sup>(1)</sup>	Daytime (0700 – 1900)	13 October 2013 (Sunday)	09:14	57	
			20 March 2014 (Monday)	18:15	55	√
B	Hong Kong Juvenile Care Centre – School (facing Tai Shue Wan)	Daytime (0700 – 1900)	7 October 2013 (Monday)	09:46	56	
			23 March 2014 (Sunday)	10:50	53	√
C	Hong Kong Juvenile Care Centre – Boarding House (facing Tai Shue Wan)	Evening Time (1900 – 2300)	7 October 2013 (Monday)	21:39	50	√
			23 March 2014 (Sunday)	19:27	52	

Note(\*): All background noise measurements were free-field measurements. Façade corrections of +3dB(A) have been included.

1. The Victoria Shanghai Academy is only considered as a noise sensitive receiver (NSR) during school hour, which is Monday to Friday, 8:25am to 3:30pm (except Wednesday, which is 8:25am to 1:30pm). Therefore, only daytime noise measurements were taken.
2. The Hong Kong Juvenile Care Centre (HKJCC) – School, is only considered as a NSR during school hour, which is 8:30am to 3:30pm. Therefore only daytime noise measurements were carried out at location B.