

APPENDIX 5.5 Fixed Noise Source Inventory

Fixed Noise Source Inventory

Noise Source ID	Noise Sources	Source Description	Avg. Measured SPL, dB(A)	Measurement Distance from Source (d), m	SWL, dB(A) (SPL + 20 log (d)+8)	SWL adopted in Noise from Fixed Source Calculation, dB(A), Day time	SWL adopted in Noise from Fixed Source Calculation, dB(A), Night time	Remarks
FS1	力信	Car Repairing Workshop	-	-	-	98	0	Refer to FS18
FS2	加昌貿易海運	Car Repairing Workshop	-	-	-	98	0	
FS4	Car Repairing workshop	Car Repairing Workshop	-	-	-	98	0	
FS5	天輝	Car washing workshop	77	3	94	94	0	By on-site measurement
FS6	東聯汽車維修	Car Repairing Workshop	-	-	-	98	0	Refer to FS18
FS7	恒力	Car Repairing Workshop	-	-	-	98	0	
FS8	Unnamed car parking	Car Repairing Workshop	-	-	-	98	0	
FS9	Enclosed Workshop	Car Repairing Workshop	-	-	-	98	0	
FS10	Self-served car washing workshop	Car washing workshop	-	-	-	94	0	Refer to FS5
FS11	榮泰	Car Repairing Workshop	-	-	-	98	0	Refer to FS18
FS12	Calco Industrial Products Ltd.	Car Repairing Workshop	-	-	-	98	0	
FS13	Car Repairing workshop	Car Repairing Workshop	-	-	-	98	0	
FS14	Unknown workshop	Unknown workshop	58	5	80	80	0	By on-site measurement
FS15	CHEP	Covered storage with forklift	65	8	91	91	0	Reference is made to an approved planning application A/TM-LTTY/273
FS16	緯力貨倉 (Wai Yik)	Storage with forklift	63	13	93	93	0	By on-site measurement
FS17	龍顏(Lung Ngai)	Tyre pumping	-	-	89	92	0	SWL of tyre pumping made reference to an approved planning application A/YL-KTN/501; SWL of Hammering made reference to Tin Lung (FS18); Car Cleansing was measured on-site.
		Hammering	-	-	87		0	
		Car Cleansing	59	5	81		0	
FS18	天隆(Tin Lung)	Pneumatic screwdriver	-	-	97	98	0	SWL of pneumatic screwdriver and tyre pumping made reference to an approved planning application A/YL-KTN/501. Hammering was measured on-site.
		Tyre pumping	-	-	89		0	
		Hammering	63	6	87		0	
FS19	隆德 (Lung Tak)	Car repairing workshop	-	-	-	98	0	Refer to FS18
FS20	Chuen Fat Marble Tools	Marble grinding	73	3	90	90	0	By on-site measurement
PFS-01	PTI-01	Proposed Public Transport Interchange	-	-	-	84	77	By Back-calculation of Maximum Allowable SWL for the Proposed PTI (Appendix 5.17)
PFS-02	PTI-01		-	-	-	83	76	
PFS-03	PTI-02		-	-	-	84	77	
PFS-04	PTI-02		-	-	-	86	79	
PFS-05	Proposed Sewage Pumping Station	Spumps, Screens and Extraction Fans	-	-	-	89	89	Reference is made to the Project Profile of Proposed Sewage Pumping Station at Attachment 1

Attachment 1

Sound Power Level

Equipment	Number of Equipment	SWL,dB(A)	Combined SWL, dB(A)	Tonality Effect, dB(A)	Screening Barrier / Enclosure Reduction*, dB(A)	Corrected SWL, dB(A)	Total SWL, dB(A)
Submersible Pumps (Ref. 1)	2	85	88	6	-20	74	89
Mechanical Raked Bar Screens (Ref. 1)	2	89	92	6	-20	78	
Extraction Fan for Deodourization Unit (Ref. 1)	1	83	83	6	-20	69	
Extraction fan for Ventilation (Ref. 1)	2	79	82	6	0	88	

Remarks:

SWL = Sound Power Level

Ref. 1 - The estimated sound power level of the equipment were made reference from the Project Profile for Yuen Long Kau Hui No.2 Sewage Pumping (EIAO Register No. DIR-173/2008). In accordance with IND-TM, 6 dB(A) for tonality correction was applied to all equipment as a conservative approach.

* The pumps, screens and deodourization unit will be fully housed in a 200mm thick reinforced concrete structure, 20 dB(A) reduction due to enclosed building design was adopted.