

Project : Pier Improvement at Tung Ping Chau
Title: Plant Inventory for Construction Phase

Worksite S1				SWL of Single PME, dB(A)	Total SWL, dB(A)		
Activity [1]	Months	PME	Units				
				Unmitigated	Unmitigated		
Site investigation work for detailed design	Q4 2021 - Q1 2022	Derrick Barge (CNP 061) (80%)	2	103	106		
		Generator, standard (CNP 101) (100%)	1	108	108		
			Total	109	110		
Mobilization, pre-drilling works and Construction of piles for temporary pier	Q1 2024 - Q2 2024	Tug Boat (CNP 221) (80%)	1	109	109		
		Drill rig, rotary type (diesel) (100%)	2	110	113		
		Generator, standard (CNP 101) (100%)	2	108	111		
		Derrick Barge (CNP 061) (50%)	2	101	104		
		Crane, mobile/barge mounted (diesel) (CNP 048) (100%)	1	112	112		
		Piling, large diameter bored, oscillator (CNP 165) (100%)	1	115	115		
					Total	119	120
Construction of temporary pier structure	Q2 2024 - Q3 2024	Tug Boat (CNP 221) (80%)	1	109	109		
		Derrick Barge (CNP 061) (50%)	1	101	101		
		Crane, mobile/barge mounted (diesel) (CNP 048) (100%)	1	112	112		
		Generator, standard (CNP 101) (100%)	1	108	108		
					Total	115	115
Installation of piles for the new pier [2]	Q3 2024 - Q1 2025	Tug Boat (CNP 221) (80%)	1	109	109		
		Drill rig, rotary type (diesel) (80%)	2	109	112		
		Generator, standard (CNP 101) (100%)	1	108	108		
					Total	113	115
		Tug Boat (CNP 221) (80%)	1	109	109		
		Derrick Barge (CNP 061) (50%)	2	101	104		
		Crane, mobile/barge mounted (diesel) (CNP 048) (100%)	1	112	112		
		Piling, large diameter bored, oscillator (CNP 165) (100%)	1	115	115		
		Generator, standard (CNP 101) (100%)	1	108	108		
					Total	118	118
			Max	118	118		
Installation of the new pier structures, Floating Pontoon and Gangway	Q1 2025 - Q3 2025	Tug Boat (CNP 221) (80%)	1	109	109		
		Derrick Barge (CNP 061) (50%)	2	101	104		
		Crane, mobile/barge mounted (diesel) (CNP 048) (100%)	1	112	112		
		Generator, standard (CNP 101) (100%)	1	108	108		
					Total	115	115
Demolition works of the existing pier and temporary pier [2]	Q3 2025 - Q4 2025	Tug Boat (CNP 221) (80%)	1	109	109		
		Drill rig, rotary type (diesel) (80%)	2	109	112		
		Saw/groover, concrete (petrol) (CNP 203) (70%)	1	113	113		
		Generator, standard (CNP 101) (100%)	1	108	108		
					Total	116	117
		Tug Boat (CNP 221) (80%)	1	109	109		
		Derrick Barge (CNP 061) (80%)	2	103	106		
		Crane, mobile/barge mounted (diesel) (CNP 048) (100%)	1	112	112		
		Piling, large diameter bored, oscillator (CNP 165) (100%)	1	115	115		
		Generator, standard (CNP 101) (100%)	1	108	108		
			Total	118	118		
			Max	118	118		
Installation of the remaining pier structures (e.g. Canopy and Staircase)	Q4 2025 - Q1 2026	Tug Boat (CNP 221) (80%)	1	109	109		
		Derrick Barge (CNP 061) (80%)	1	103	103		
		Crane, mobile/barge mounted (diesel) (CNP 048) (100%)	1	112	112		
		Generator, standard (CNP 101) (100%)	1	108	108		
					Total	115	115
Construction of associated facilities	Q1 2026	Tug Boat (CNP 221) (80%)	1	109	109		
		Derrick barge (CNP 061) (80%)	1	103	103		
		Crane, mobile/barge mounted (diesel) (CNP 048) (100%)	1	112	112		
		Generator, standard (CNP 101) (100%)	1	108	108		
		Drill/Grinder, hand-held (Electric) (CNP 065) (50%)	2	95	98		
		Poker, Vibratory, hand-held (CNP 170) (30%)	1	108	108		
					Total	116	116
			Max	119	120		

Maximum SWL

Notes:

- [1] Only one of the eight types of construction activities will be carried out at any time within the same workfront S1.
- [2] Under each type of the construction activity, only one subgroup of PME will be used at any time within workfront S1. The subgroup of PME with maximum SWL is adopted for assessment to assess the worst case scenario.