

MTR Corporation Limited

**Siu Ho Wan Station and
Siu Ho Wan Depot Replanning Works**

Construction Noise Mitigation Plan

(December 2021)

Verified by: James Choi *James*

Position: Independent Environmental Checker

Date: 13 December 2021

MTR Corporation Limited

**Siu Ho Wan Station and
Siu Ho Wan Depot Replanning Works**

Construction Noise Mitigation Plan

(December 2021)

Certified by: Lisa Poon 

Position: Environmental Team Leader

Date: 13 December 2021

MTR Corporation Limited**Consultancy Agreement No. NEX/1062****Siu Ho Wan Station and Siu Ho Wan
Depot Replanning Works****Construction Noise Mitigation Plan –
Advance Works****December 21**

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Version:	A	Date:	2 December 2021
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1 INTRODUCTION

1.1 Background

- 1.1.1 MTR Corporation Limited (MTRCL) had commenced a study to formulate a technically feasible development scheme for the Proposed Comprehensive Residential and Commercial Development atop Siu Ho Wan Depot (hereinafter referred to the “SHD Topside Development”) to optimise housing supply. To facilitate the construction of the SHD Topside Development, railway related works would be required. The existing Siu Ho Wan Depot (SHD) will undergo replanning works to make room for the phased construction of the SHD Topside Development, while maintenance and supporting services to the existing Tung Chung Line (TCL), Airport Express Line (AEL) and Disneyland Resort Line (DRL) should be maintained without causing disruption to the normal operation. A new Siu Ho Wan Station (SHO) has also been proposed along the TCL tracks to meet transport needs of the SHD Topside Development and enable building of a sustainable community.
- 1.1.2 The Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-214/2017) for the SHO and SHD Replanning Works (hereafter referred to as the “Project”) was approved on 29 November 2017 under the Environmental Impact Assessment Ordinance (EIAO). Following the approval of the EIA Report, an Environmental Permit (EP) was granted on 22 March 2021 (EP No: EP-588/2021) for the construction and operation of the Project.
- 1.1.3 According to the Condition 2.10 of the EP-588/2021, the Permit Holder shall, no later than one month before the commencement of the construction of the Project, deposit a Construction Noise Mitigation Plan (CNMP) to the Director of Environmental Protection (DEP). The CNMP shall, cover both the design / tendering and implementation stage of the construction works, verify the noise source inventory and assess the effectiveness and practicality of the noise mitigation measures recommended in the EIA Report (Register No. AEIAR-214/2017) with a view to formulate the noise mitigation measures including the use of quiet powered mechanical equipment (PME), noise barriers and noise enclosures for mitigating noise impact arising from the construction activities of the Project taking into account the phased population intake of the SHD Topside Development. The CNMP shall include an implementation schedule in table form to clearly list out the mitigation measures to be implemented, and the implementation party, location, timing, and environmental performance required for implementation of the mitigation measures.
- 1.1.4 Since the construction of the Project would be undertaken in stages, the CNMP(s) under EP Condition 2.10 would be prepared and deposited to DEP no later than one month before the commencement of each stage of the Project.
- 1.1.5 This CNMP covers the advance works of the Project only. The advance works will be conducted under three works contracts and the corresponding tentative construction programme is detailed in **Table 1.1**.

Table 1.1 Tentative Works Programme of Advance Works

Contract No.	Description of Construction Works	Tentative Construction Programme	
		From	To
1731	<ul style="list-style-type: none"> • Trial Piling for SHD Phase 1 	Q2 2022	Q3 2022
1732	<ul style="list-style-type: none"> • Construction of cable bridges and associated civil works for cable diversion 	Q4 2021	Q4 2022
1733	<ul style="list-style-type: none"> • Construction of vehicular access bridge • Demolition of paint shop • Construction of engineering vehicle (EV) stabling tracks 	Q2 2022	Q2 2023

2 CONSTRUCTION ACTIVITIES OF ADVANCE WORKS

2.1 Construction Activities

2.1.1 The overall construction programme of advance works would be about 18 months tentatively, commencing in Q4 2021 for completion in Q2 2023. The major construction activities to be carried out are summarised in **Table 2.1**, while the programme of each task is provided in **Appendix 2.1**.

Table 2.1 Summary of Construction Tasks for the Works

Item	Major Construction Activities
<i>Contract 1731 – Trial Piles for SHD Phase 1</i>	
3.1	Site Clearance & Hoarding
3.2	Bored Pile Works
<i>Contract 1732 – Cable Bridges and Associated Civil Works for Cable Diversion</i>	
1.1	Site Clearance & Hoarding/UU/Cable Trenches
1.2	H-piling
1.3	Excavation (Soil)
1.4	Substructure (footings, pile caps, columns)
1.5	Backfilling
1.6	Superstructure (Cable Bridges)
<i>Contract 1733 – Vehicular Access Bridge, Demolition of Paint Shop and Construction of EV Stabling Tracks</i>	
2.1	Site Clearance & Hoarding/UU/Cable Trenches
2.2	Paint Shop Demolition
2.3	Excavation (Soil)
2.4	Substructure (footings, pile caps, columns, abutments)
2.5	Backfilling
2.6	Superstructure (Vehicle Bridge Spans)
2.7	EV Tracks – Formation and Track Installation

2.1.2 According to the construction programme in **Appendix 2.1**, the construction activities would be divided into various sub-tasks and would be conducted simultaneously within the period from 2021 to 2023.

2.1.3 The plant inventory for each construction task has been verified by the Engineer and is shown in **Appendix 2.2**. The locations of works areas for advance works are shown in **Figure 1**¹.

¹ The figure is extracted from the approved EIA Report (Register No. AEIAR-214/2017). Design and extent of decking are subject to the detailed design development for each stage.

3 ASSESSMENT CRITERIA AND METHODOLOGY

3.1 Assessment Criteria

3.1.1 Noise impacts generated by the construction of the Project were assessed in accordance with the noise criteria given in the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The construction noise criteria are presented in **Table 3.1**.

Table 3.1 Construction Noise Criteria during Non-Restricted Hours

Use	Noise Level in Leq (30min), dB(A)
Residential	75
Country Park	N/A ^[1]

Note:

[1] N/A – Not Applicable. In accordance with Annex 13 of the TM-EIAO, country parks are considered to be an NSR. However, the TM-EIAO and TM-IND do not provide a specific noise limits for Country Parks. Given that the transient nature of visitor using hiking trails in the Country Park, no adverse construction noise impact is anticipated.

3.2 Assessment Methodology

3.2.1 Noise impacts were assessed in accordance with the methodology given in the Technical Memorandum on Noise from Construction Work Other Than Percussive Piling (GW-TM) under the Noise Control Ordinance (NCO).

3.2.2 SWLs of the equipment are made reference from Table 3 of TM-GW and "Sound power levels of other commonly used Powered Mechanical Equipment" (Other PME) published by EPD. Where no relevant SWL to be found in the TM-GW and other PME, reference is made to Quality PME (QPME) available in EPD web site². The SWL of PME as adopted in the construction noise assessment is presented in **Appendix 3.1**.

3.2.3 It is assumed that all PME items required for a particular construction activity would be located at the notional source position which is a position mid-way between the approximate geographical centre of each phase construction work site and its boundary nearest to the noise sensitive receiver.

3.2.4 In addition, PME items are divided into groups required for each discrete construction task. The objective is to identify the worst-case scenario representing those items of PME that would be in use concurrently at any given time. The sound pressure level (SPL) of each construction task at representative noise sensitive receivers (NSRs) was calculated based on the number of plant and the distance from the noise assessment points. If there are concurrent construction activities, the noise levels at representative noise assessment points are predicted by adding up the sound pressure levels of all concurrent construction tasks.

3.2.5 According to Section 4.5.24 of the approved EIA Report, there are concurrent projects that may cause cumulative construction noise impact to the NSR. Cumulative construction noise impact assessment has been conducted with reference to the information presented in Appendix 4.7 of the approved EIA Report.

² <http://www.epd.gov.hk/epd/english/environmentinhk/noise/gpme/index.html>

4 NOISE SENSITIVE RECEIVER

4.1.1 In accordance with the approved EIA Report, the study area is defined as the area within 300 m from the boundary of the works of the Project. Within the study area, only Lantau North (Extension) Country Park is identified as the existing Representative Noise Sensitive Receiver (NSR) / Noise Assessment Point (NAP) for advanced works of the Project. The planned NSR (i.e. SHD Topside Development) are yet to be constructed during the advance works period and thus this NSR would not be included in the assessment. The location of the representative NSR is shown in **Figure 1**, while description of the representative NSR is presented **Table 4.1**.

Table 4.1 Description of Representative Noise Sensitive Receiver

NAP	NSR Description	Uses	Noise Criteria, Leq (30 min), dB(A)
N01	Lantau North (Extension) Country Park	Country Park	N/A

Note:

[1] N/A – Not Applicable. In accordance with Annex 13 of the TM-EIAO, country parks are considered to be an NSR. However, the TM-EIAO and TM-IND do not provide a specific noise limits for Country Parks. Given that the transient nature of visitor using hiking trails in the Country Park, no adverse construction noise impact is anticipated.

5 ASSESSMENT OF CONSTRUCTION NOISE IMPACT

5.1 Construction Noise Assessment Result

5.1.1 The predicted construction noise levels under unmitigated scenario and the cumulative construction noise levels at the existing NSR (i.e. Lantau North (Extension) Country Park) are detailed in **Appendix 5.1** and summarised in **Table 5.1** and **Table 5.2** below.

Table 5.1 Summary of Unmitigated Construction Noise Assessment

NAP	NSR Description	Predicted Noise Level, Leq (30min), dB(A)
N01	Lantau North (Extension) Country Park	49 – 70

Table 5.2 Cumulative Construction Noise Levels

NAP	Max. Predicted Noise Level, Leq (30min), dB(A) (Advanced Works)	Max. Predicted Noise Level, Leq (30min), dB(A) (Concurrent Projects)	Max. Cumulative Construction Noise Impact, Leq (30min), dB(A)
N01	70	42	70

5.1.2 Based on the assessment results, the maximum cumulative construction noise level at the representative NSR was predicted to be 70 dB(A). Given that the transient nature of visitor using hiking trails in the Country Park, no adverse construction noise impact is anticipated. Hence, further noise mitigation measures are considered unnecessary. Nevertheless, good site practices as stipulated in the approved EIA Report, should be adopted to minimise construction noise impact at the representative NSR. Detailed descriptions of these mitigation measures are given in the following sections. The implementation schedule is presented in **Appendix 5.2**.

Good Site Practice

5.1.3 Although the noise mitigation effects are not easily quantifiable and the benefits may vary with site conditions and operating conditions, good site practices are easy to implement and do not impact upon the works schedule. The site practices listed below should be followed during the advanced works of the Project:

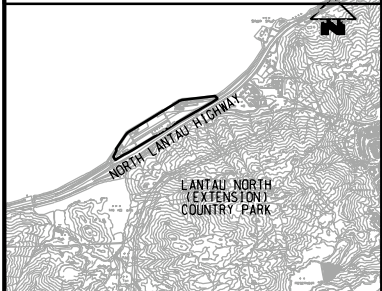
- Only well-maintained plant should be operated on-site and plant should be serviced regularly throughout the construction period;
- Silencers or mufflers on construction equipment should be utilised and should be properly maintained;
- Mobile plant, if any, should be sited as far from NSRs as possible;
- Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;
- Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and
- Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities.

6 CONCLUSION

- 6.1.1 The construction noise impact arising from the advanced works of the Project has been predicted. This CNMP has taken into account the updated information on PMEs and works programme verified by the Engineer. No adverse impact is predicted at the representative NSR (i.e. Lantau North (Extension) Country Park) under unmitigated scenario, and thus no specific mitigation measures (e.g. noise barrier / enclosure adoption) are required. Good site practice is however to be adopted during the advance works period.
- 6.1.2 Given that the construction of the Project would be undertaken in stages, the CNMP(s) under EP Condition 2.10 would be prepared and deposited to DEP no later than one month before the commencement of each stage of the Project.

FIGURE

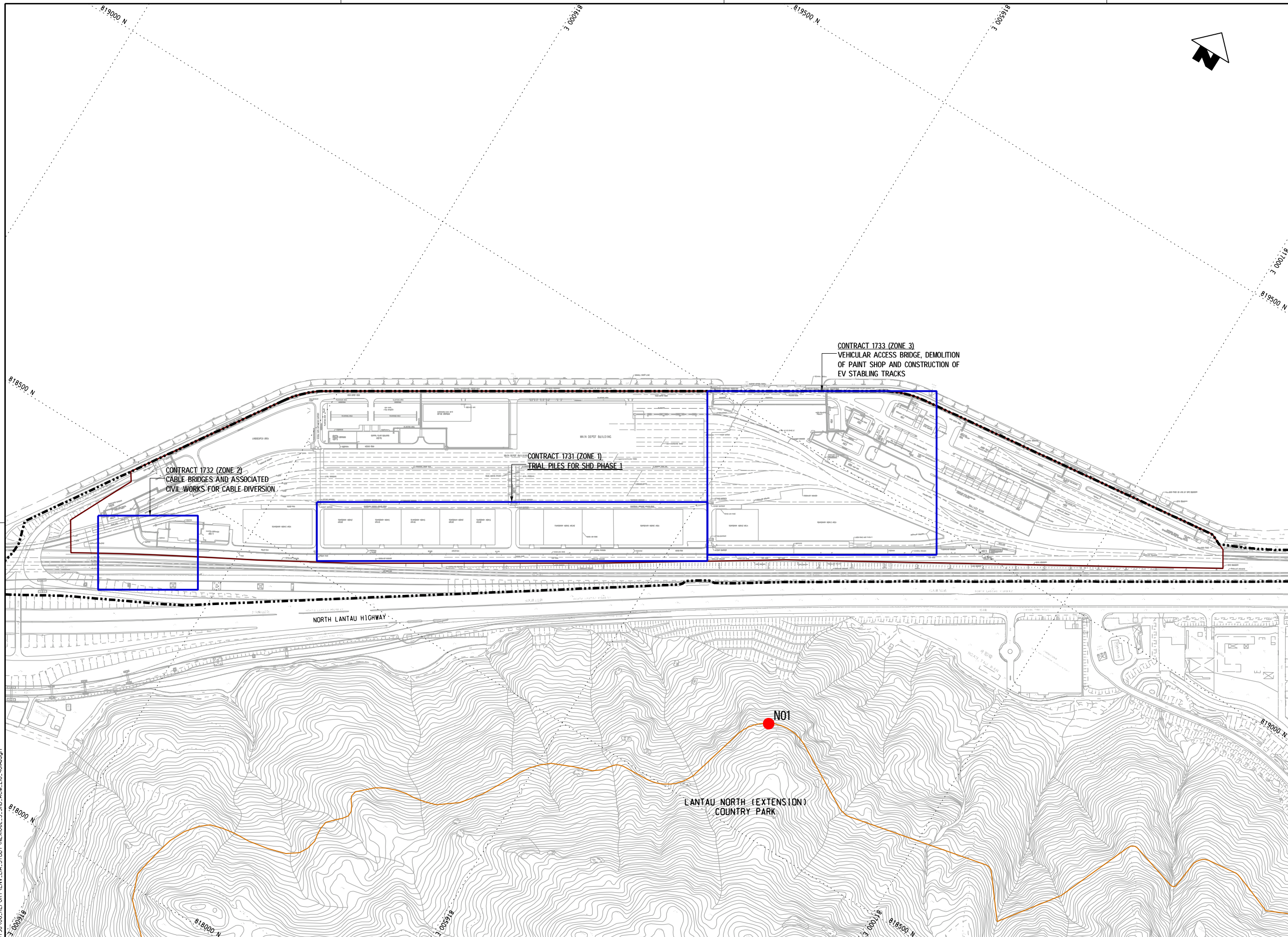
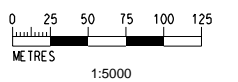
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KEY PLAN
(SCALE 1 : 50000)

LEGEND:

- SCHEME BOUNDARY
- EXISTING/REPROVISIONED SHD BOUNDARY
- LANTAU NORTH (EXTENSION) COUNTRY PARK
- ADVANCE WORKS BOUNDARY (INDICATIVE)
- REPRESENTATIVE NOISE SENSITIVE RECEIVERS



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DESIGNED	ANTHEA FUNG
CHECKED	SAM NG
APPROVED	HL
DATE	13/DEC/2016



SIU HO WAN DEPOT

ORIGINATOR

AECOM in association with
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TITLE

**SIU HO WAN STATION AND SIU HO WAN DEPOT
REPLANNING WORKS**
WORKS AREAS AND
LOCATION OF REPRESENTATIVE NOISE SENSITIVE RECEIVER

SCALE

1 : 2500 @ A1

DRAWING NO.

FIGURE 1

REV.

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
A	PRELIMINARY DESIGN REPORT ISSUE	SN	13DEC16	HL					

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APPENDIX 2.1

Construction Programme

APPENDIX 2.2

Plant Inventory

APPENDIX 3.1

SWL of PME

Appendix 3.1 SWL of PME

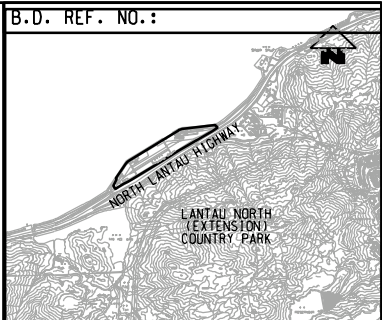
Reference	Identification Code	Description	Unit Sound Power Level, dB(A)
GW-TM	CNP 003	Air Compressor, air flow > 30m ³ /min	104
	CNP 021	Bar bender and cutter (electric)	90
	CNP 044	Concrete lorry mixer	109
	CNP 047	Concrete pump, stationary/lorry mounted	109
	CNP 048	Crane, mobile/barge mounted (diesel)	112
	CNP 050	Compactor, vibratory	105
	CNP 081	Excavator/loader, wheeled/tracked	112
	CNP 101	Generator, standard	108
	CNP 103	Generator, super silenced, 70dB(A) at 7m	95
	CNP 166	Piling, large diameter bored, reverse circulation drill	100
Sound Power Levels of Other Commonly Used PMEs from EPD ^[1]	--	Cutter, circular, steel (electric)	112
	--	Drill rig, rotary type (diesel)	110
	--	Grout mixer	90
	--	Poker, vibratory, hand-held (electric)	102
	--	Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	105
	--	Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	105
	--	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	105

Note:

^[1] Reference is made to https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf.

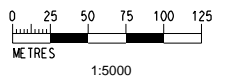
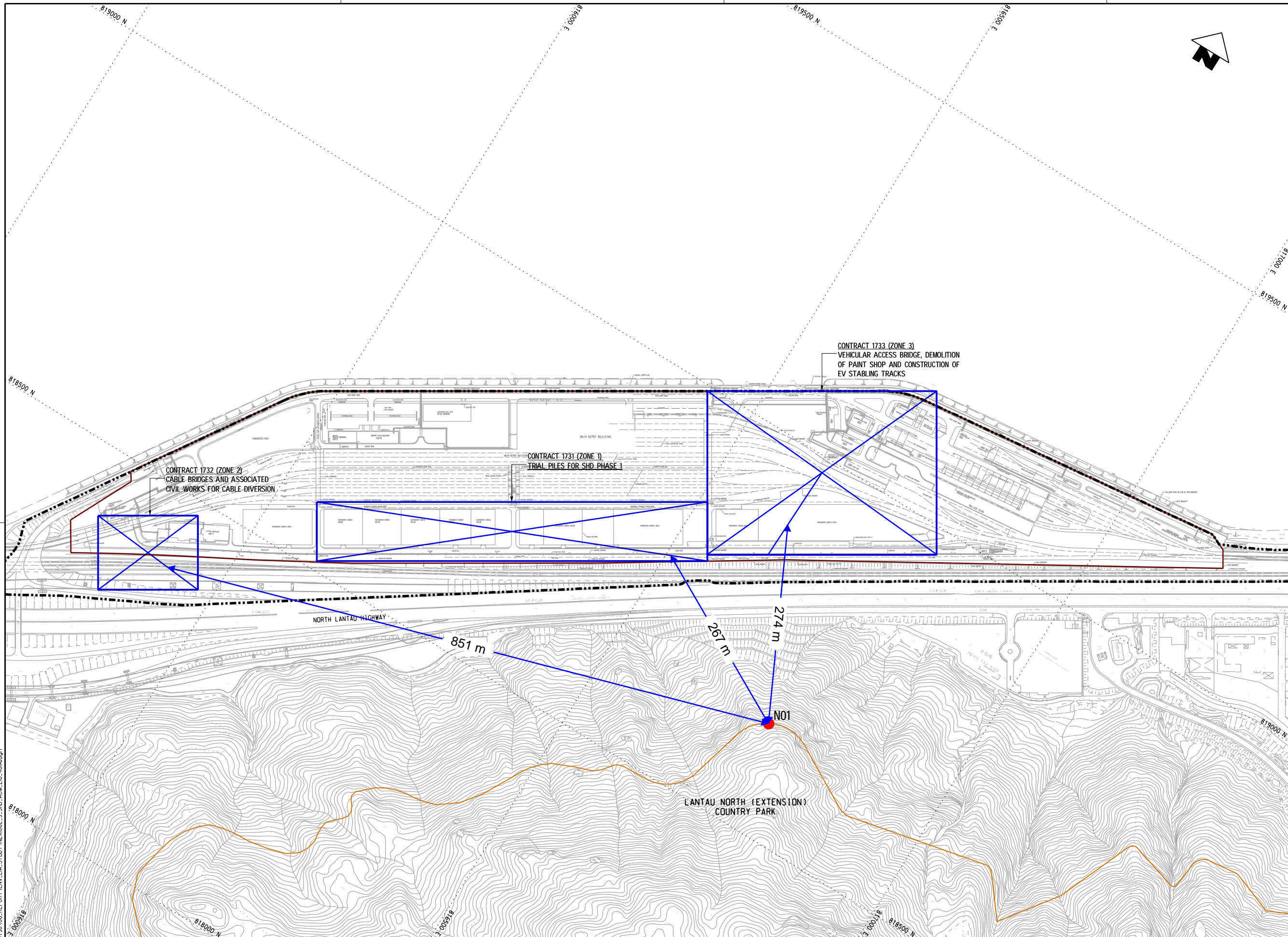
APPENDIX 5.1

**Calculation of
Cumulative Construction Noise Impact**



KEY PLAN
(SCALE 1 : 50000)

- LEGEND:**
- SCHEME BOUNDARY
 - EXISTING/REPROVISIONED SHD BOUNDARY
 - LANTAU NORTH (EXTENSION) COUNTRY PARK
 - ADVANCE WORKS BOUNDARY (INDICATIVE)
 - REPRESENTATIVE NOISE SENSITIVE RECEIVERS
 - ↔ SEPARATION DISTANCE BETWEEN NO1 AND NOTIONAL SOURCE



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DRAWN	ZENG FU XIU
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APPROVED	HL
DATE	13/DEC/2016

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SIU HO WAN DEPOT

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TITLE

**SIU HO WAN STATION AND SIU HO WAN DEPOT
REPLANNING WORKS**
WORKS AREAS AND
LOCATION OF REPRESENTATIVE NOISE SENSITIVE RECEIVER

SCALE 1 : 2500 @ A1 DRAWING NO. **FIGURE 1**

Appendix 5.1 Calculation of Cumulative Construction Noise Impact

NSR: N01 - Lantau North (Extnsion) Country Park^[1]

Contract 1731 – Trial Piles for SHD Phase 1			1																																					
Work Zone :			266.79																																					
Notional Distance, m :			-56.523																																					
Distance Correction, dB(A) :																																								
ID	Activity Plant Inventory	Plant No	Ident Code	Unit SPL dB(A)	2021												2022												2023											
					J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1.1	Site Clearance & Hoarding																																							
	Excavator/loader, wheeled/tracked	1	CNP 081	112																																				
	Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1	-- ^[2]	105																																				
	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1	-- ^[2]	105																																				
	Crane, mobile/barge mounted (diesel)	1	CNP 048	112																																				
1.2	Bored Pile Works																																							
	Generator, super silenced, 70dB(A) at 7m	1	CNP 103	95																																				
	Crane, mobile/barge mounted (diesel)	2	CNP 048	112																																				
	Air Compressor, air flow > 30m3/min	2	CNP 003	104																																				
	Piling, large diameter bored, reverse circulation drill	2	CNP 166	100																																				
	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	2	-- ^[2]	105																																				
	Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	2	-- ^[2]	105																																				
	Concrete lorry mixer	2	CNP 044	109																																				

Appendix 5.1 Calculation of Cumulative Construction Noise Impact

NSR: N01 - Lantau North (Extnsion) Country Park ^[1]

Contract 1732 – Cable Bridges and Associated Civil Works for Cable Diversion						2021												2022												2023											
Work Zone :		2																																							
Notional Distance, m :		850.61																																							
Distance Correction, dB(A) :		-66.595																																							
ID	Activity Plant Inventory	Plant No	Ident Code	Unit SPL dB(A)	2021												2022												2023												
					J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	
2.1	Site Clearance & Hoarding/UU/Cable Trenches																																								
	Excavator/loader, wheeled/tracked	1	CNP 081	112																																					
	Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	1	-- [2]	105																																					
	Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	2	-- [2]	105																																					
	Crane, mobile/barge mounted (diesel)	1	CNP 048	112																																					
2.2	H-piling																																								
	Crane, mobile/barge mounted (diesel)	1	CNP 048	112																																					
	Drill rig, rotary type (diesel)	2	-- [2]	110																																					
	Generator, super silenced, 70dB(A) at 7m	2	CNP 103	95																																					
	Air Compressor, air flow > 30m3/min	2	CNP 003	104																																					
	Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	1	-- [2]	105																																					
	Lorry, 5.5 tonne < gross vehicle weight ≤38 tonne	1	-- [2]	105																																					
	Grout mixer	1	-- [2]	90																																					
2.3	Excavation (Soil)																																								
	Excavator/loader, wheeled/tracked	2	CNP 081	112																																					
	Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	2	-- [2]	105																																					
	Crane, mobile/barge mounted (diesel)	2	CNP 048	112																																					
2.4	Substructure (footings, pile caps, columns)																																								
	Bar bender and cutter (electric)	1	CNP 021	90																																					
	Poker, vibratory, hand-held (electric)	4	-- [2]	102																																					
	Air Compressor, air flow > 30m3/min	1	CNP 003	104																																					
	Concrete lorry mixer	2	CNP 044	109																																					
	Concrete pump, stationary/lorry mounted	1	CNP 047	109																																					
	Crane, mobile/barge mounted (diesel)	1	CNP 048	112																																					
2.5	Backfilling																																								
	Excavator/loader, wheeled/tracked	1	CNP 081	112																																					
	Compactor, vibratory	2	CNP 050	105																																					
2.6	Superstructure (Cable Bridges)																																								
	Crane, mobile/barge mounted (diesel)	3	CNP 048	112																																					
	Lorry, 5.5 tonne < gross vehicle weight ≤38 tonne	2	-- [2]	105																																					
	Generator, standard	1	CNP 101	108																																					

APPENDIX 5.2

Implementation Schedule

Appendix 5.2 Implementation Schedule for Noise Impact during Construction Phase

Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measures	When to implement the measures?	Requirements
S.5.1.3	<p>Implement the following good site practices as far as practicable:</p> <ul style="list-style-type: none"> • Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program; • Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction program; • Mobile plant, if any, should be sited as far from NSRs as possible; • Machine and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; • Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and • Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 	To minimise impacts to surrounding habitats	Contractor	All works area	Construction phase	TM-EIAO