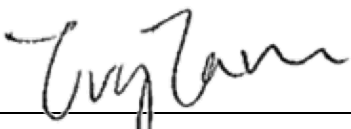


Civil Engineering and Development Department

EP-510/2016 – Police Facilities in Kong Nga Po

**Service Contract No. NDO 07/2019
Environmental Team for Site Formation and
Infrastructure Works for Police Facilities in
Kong Nga Po**

**Monthly Environmental Monitoring and
Audit Report for February 2023
(Version 1.0)**

Certified By	 _____ Ms. Ivy Tam (Environmental Team Leader)
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REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

WELLAB accepts no responsibility for changes made to this report by third parties.

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Civil Engineering and Development Department
North Development Office
Unit 2320, Level 23, Tower 1, Metroplaza
223 Hing Fong Road,
Kwai Fong, New Territories,
Hong Kong

Attention: Mr. William WONG

14 March 2023

Dear William,

Contract No.: NDO/02/2018

**Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Monthly Environmental Monitoring and Audit Report for February 2023**

I refer to the email received on 14 March 2023 of the Environmental Team concerning the captioned. I have no adverse comment on the Monthly EM&A Report for February 2023 (Version 1.0) and verify the report according to Conditions 1.9 and 3.5 of the Environmental Permit with permit number EP-510/2016.

Yours faithfully,



Melody Cheng
Independent Environmental Checker

cc. CEDD – Joseph Yan
AECOM – Mr. Steven Leung
ET Leader – Ivy Tam

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EXECUTIVE SUMMARY

Introduction

1. This is the 32nd monthly Environmental Monitoring and Audit (EM&A) Report for the Project of Police Facilities in Kong Nga Po under Environmental Permit No. EP-510/2016. This report was prepared by Wellab Limited (Wellab) under “Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po” (hereinafter called the “Service Contract”). This report documents the findings of Environmental Monitoring and Audit (EM&A) work conducted from 1st to 28th February 2023.
2. Part of the construction site was handed over to Architectural Services Department (ArchSD) on 23rd December 2022 whom taken over responsibility for the construction of building works and as maintenance agent for Hong Kong Police Force (HKPF) during operation phase. A further environmental permit (FEP) (FEP no.: FEP-01/510/2016) was issued by the Director of Environmental Protection (DEP) on 16 February 2023 to Architectural Services Department as permit holder for the construction of building works.
3. A separate Monthly EM&A Report documents the findings of EM&A works for the construction of building works under ArchSD’s Contract will be submitted starting from March 2023 tentatively.
4. During the reporting month, the following Works Contracts were undertaken for the Project of Police Facilities in Kong Nga Po under Environmental Permit No. EP-510/2016 and FEP no.: FEP-01/510/2016:
 - Contract No. ND/2018/01 – Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po (Environmental Permit No. EP-510/2016)
 - Contract No. SSK509 - Design and Construction of Kong Nga Po Police Training Facilities (FEP no.: FEP-01/510/2016)

Environmental Monitoring and Audit Progress

5. A summary of the EM&A activities in this reporting month is listed in **Table I** below:

Table I Summary Table for EM&A Activities in the Reporting Month

EM&A Activities	Date
Air Quality Monitoring	2, 6, 8, 10, 14, 16, 20, 22, 24 and 28 February 2023
Noise Monitoring	2, 6, 8, 14, 16, 20, 22 and 28 February 2023
Ecological Monitoring	24 February 2023
Environmental Site Inspection	3, 10, 17 and 24 February 2023

Breaches of Action and Limit Levels

6. Summary of the environmental exceedances of the reporting month is tabulated in **Table II**.

Air Quality

7. All construction air quality monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise

8. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Table II Summary Table for Events Recorded in the Reporting Month

Environmental Monitoring	Parameter	No. of Non-Project related Exceedances		No. of Exceedance related to the Construction Works		Action Taken
		Action Level	Limit Level	Action Level	Limit Level	
Air Quality	1-hr TSP	0	0	0	0	N/A
Noise	$L_{eq(30min)}$	0	0	0	0	N/A

Ecological Monitoring

9. All ecological monitoring was conducted as scheduled in the reporting month. The ecological monitoring result in the reporting month is shown in **Appendix H**.

Environmental Non-Compliance

10. No environmental non-compliance was recorded in the reporting month

Environmental Complaint

11. One environmental complaint related to air quality was received in the reporting month.

Notification of Summons and Successful Prosecutions

12. No notification of summons or successful prosecutions was received in the reporting month.

Reporting Changes

13. No reporting change was made in the reporting month.

Future Key Issues

14. The major site activities for the coming three months include:

Contract No. ND/2018/01 – Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

- Retaining Wall Construction
- Slope Upgrading Works
- Road & Associated Works
- Sewerage Trenchless Works
- Drainage & Watermain Trenchless works
- Bridge & Associated Works

Contract No. SSK509 - Design and Construction of Kong Nga Po Police Training Facilities

- Setting up of site office

- Ground investigation
- Plate load test and soil test
- Open cut excavation
- Removal of soil
- Construction of footings

15. Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, noise, water quality and waste management. For the details, please refer to **Appendix A** regarding the anticipated major impacts from the construction works and corresponding recommended mitigation measures.

1 INTRODUCTION

- 1.1 Wellab Limited was commissioned by the Civil Engineering Development Department (CEDD) as the Environmental Team to undertake the Environmental Monitoring and Audit (EM&A) works for the Project of Police Facilities in Kong Nga Po under Environmental Permit No. EP-510/2016 to ensure that the environmental performance of the Works Contracts comply with the requirements specified in the Environmental Permits (EPs), Environmental Impact Assessment (EIA) Report and Environmental Monitoring & Audit (EM&A) Manual of the Police Facilities in Kong Nga Po Project and other relevant statutory requirements.
- 1.2 The major construction works for the Project commenced on 3rd July 2020 and the main site in Kong Nga Po was handed over to Architectural Services Department (ASD) on 23rd December 2022 whom taken over responsibility for the construction of building works and as maintenance agent for Hong Kong Police Force (HKPF) during operation phase.

Purpose of the report

- 1.3 This is the 32nd EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 1st to 28th February 2023.

Structure of the report

- 1.4 The structure of the report is as follows:

- Section 1: **Introduction** - purpose and structure of the report.
- Section 2: **Project Information** – summarises background and scope of the Project, site description, project organisation and contact details, construction programme, the construction works undertaken and the status of Environmental Permits/Licences during the reporting month.
- Section 3: **Air Quality Monitoring** – summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels, monitoring results and Event /Action Plans.
- Section 4: **Noise Monitoring** – summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels, monitoring results and Event/Action Plans.
- Section 5: **Ecological Monitoring** – summarises the monitoring results of the monthly ecological monitoring undertaken within the reporting month.
- Section 6: **Landscape and Visual Monitoring** – summarises the audit results of the site inspection undertaken within the reporting month.
- Section 7: **Environmental Site Inspection** – summarises the audit findings of the weekly site inspections undertaken within the reporting month.
- Section 8: **Environmental Non-conformance** – summarises any monitoring exceedance, environmental complaints, environmental summons and successful prosecutions within the reporting month.
- Section 9: **Future Key Issues** – summarises the impact forecast for the next three months and monitoring schedule in the next month.

Section 10: **Conclusions and Recommendations**

2 PROJECT INFORMATION

Background

- 2.1 The Project consists of site formation works and building works for the co-location of various police facilities in the Project site at Kong Nga Po as well as road improvement works to a section of the existing Kong Nga Po Road between the police facilities and Man Kam To Road. The police facilities include:
- Lo Wu Firing Range (LWFR) to be relocated from Lo Wu;
 - Ma Tso Lung Firing Range (MTLFR) to be relocated from Ma Tso Lung;
 - Weapons Training Facilities (WTF) and Police Driving and Traffic Training Facilities (PD&TTF) to be relocated from Fan Garden;
 - Helipad to be relocated from Lo Wu;
 - A Proposed Police Training Facility (PTF); and
 - A new internal access road network with underpass within the Project site.
- 2.2 The improvement works to Kong Nga Po Road between the police facilities and Man Kam To Road includes roadworks, viaduct of less than 100m between abutments, and associated works such as slopeworks and retaining walls.
- 2.3 In addition to the above, associated supporting infrastructure and utilities including an underground stormwater storage tank, sewage pumping station, petrol / diesel filling station, a multi-storey training complex associated with the PD&TTF, and other ancillary facilities will also be provided.
- 2.4 The Project is a Designated Project under the Environmental Impact Assessment Ordinance (EIAO). An Environmental Impact Assessment (EIA) Report (Report No.: AEIAR-201/2016) for the Project was approved under EIAO in October 2016 in accordance with the EIA Study Brief (No. ESB-276/2014) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The corresponding Environmental Permit was issued (EP no.: EP-510/2016) by the Director of Environmental Protection (DEP) in November 2016.
- 2.5 Part of the construction site was handed over to Architectural Services Department (ArchSD) on 23rd December 2022 whom taken over responsibility for the construction of building works and as maintenance agent for Hong Kong Police Force (HKPF) during operation phase. A further environmental permit (FEP) (FEP no.: FEP-01/510/2016) was issued by the Director of Environmental Protection (DEP) on 16 February 2023 to Architectural Services Department as permit holder for the construction of building works.
- 2.6 According to approved Environmental Monitoring and Audit (EM&A) Manual, an air quality and noise monitoring programme is recommended during the construction phases of the Project to monitor the expected dust and noise nuisances. Baseline air quality and noise monitoring were conducted by ET from 14th March 2020 to 2nd April 2020 to establish the background conditions of the designated sensitive receivers prior to the commencement of the Project's construction works.
- 2.7 The site layout plan for the Project is shown in **Figure 1**.

Project Organization

2.8 Different parties with different levels of involvement in the Project organization under EP no.: EP-510/2016 include:

- Project Proponent – Civil Engineering and Development Department (CEDD)
- *Supervisor / Supervisor's Representative* – AECOM
- Environmental Team (ET) – Wellab Limited
- Independent Environmental Checker (IEC) – Acuity Sustainability Consulting Limited

2.9 The key personnel contact names and numbers under Contract No. ND/2018/01 and the other contact names and numbers under ArchSD Contract No. SSK509 are summarised in **Table 2.1**.

Table 2.1 Key Contacts of the Project

Party	Role	Contact Person	Phone No.	Fax No.
Contract No. ND/2018/01				
Civil Engineering and Development Department, HKSAR (CEDD)	Project Proponent	Mr. Joseph YAN	3152 3551	3547 1658
<i>Supervisor / Supervisor's Representative</i> (AECOM)	Senior Resident Engineer	Mr. Steven Leung	5287 4331	3922 9797
Environmental Team (Wellab Limited)	Environmental Team Leader	Ms. Ivy Tam	2151 2090	2898 7076
	Qualified Ecologist	Dr. Priscilla Choy	2898 7388	2898 7076
	Registered Landscape Architect	Mr. Ted Lam	2898 7388	2898 7076
Independent Environmental Checker (Acuity Sustainability Consulting Limited)	Independent Environmental Checker	Ms. Melody Cheng	2698 6833	2693 9383
Contractor (Build King Construction Limited)	Site Agent	Mr. Book Kin Man	2272 3128	2528 1751
	Environmental Officer	Mr. Alex Liu	9754 3432	
Contract No. SSK509				
Architectural Services Department	Project Proponent	Mr. Vincent Kwok	2867 3939	3542 5223
Contractor (China State JV)	Site Agent	Mr. Kelvin Chan	6272 8828	2866 6325

Party	Role	Contact Person	Phone No.	Fax No.
	Environmental Officer	Ms. Marian Kong	6174 9735	2866 6325

Summary of Construction Works Undertaken During Reporting Month

2.10 The major site activities undertaken in the reporting month included:

Contract No. ND/2018/01 – Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

- Retaining Wall Construction
- Slope Upgrading Works
- Road & Associated Works
- Sewerage Trenchless Works
- Drainage & Watermain Trenchless Works
- Bridge & Associated Works

Contract No. SSK509 - Design and Construction of Kong Nga Po Police Training Facilities

- Concreting of temporary slab for site office
- Ground investigation

Construction Programme

2.11 A copy of Contractors' construction programmes are provided in **Appendix A**.

Status of Environmental Licences, Notifications and Permits

2.12 A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in **Table 2.2(a-b)**.

**Table 2.2a Status of Environmental Licences, Notifications and Permits
(Contract No. ND/2018/01)**

Permit / Licence No.	Valid Period		Status
	From	To	
Environmental Permit (EP)			
EP-510/2016	N/A	N/A	Valid
Construction Noise Permit (CNP)			
GW-RN1224-22	03-01-2023	02-04-2023	Valid
GW-RN0081-23	28-01-2023	27-07-2023	Valid
Notification pursuant to Air Pollution Control (Construction Dust) Regulation			
EPD Ref no.: 451555	N/A	N/A	N/A
Billing Account for Construction Waste Disposal			
Account No. 7036173	24-12-2019	N/A	Valid
Registration of Chemical Waste Producer			

WPN5213-641-B2590-01	18-5-2020	N/A	Valid
Effluent Discharge Licence under Water Pollution Control Ordinance			
WT00035709-2020	11-5-2020	31-5-2025	Valid

**Table 2.2b Status of Environmental Licences, Notifications and Permits
(Contract No. SSK509)**

Permit / Licence No.	Valid Period		Status
	From	To	
Further Environmental Permit (EP)			
FEP-01/510/2016	N/A	N/A	Valid
Construction Noise Permit (CNP)			
GW-RN0132-23	07-02-2023	06-05-2023	Valid
Notification pursuant to Air Pollution Control (Construction Dust) Regulation			
EPD Ref no.: 487864	N/A	N/A	N/A
Billing Account for Construction Waste Disposal			
Account No. 7046289	18-01-2023	N/A	Valid
Registration of Chemical Waste Producer			
WPN5213-641-C4770-01	18-01-2023	N/A	Valid
Effluent Discharge Licence under Water Pollution Control Ordinance			
Application No. 488094	-	--	Pending for approval

Summary of EM&A Requirement

- 2.13 The EM&A programme requires construction noise monitoring, air quality monitoring, ecological monitoring and environmental site audits. The EM&A requirements are described in the following sections, including:
- All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event / Action Plans;
 - Environmental mitigation measures, as recommended in the Project EIA study final report; and
 - Environmental requirements in contract documents.

Status of Compliance with Environmental Permits Conditions

- 2.14 The status of compliance with Environmental Permit (EP) No. EP-510/2016 and required submission related to this Project under the EP is summarized in **Table 2.3**:

Table 2.3 Summary Table for Status of Compliance / Required Submission under EP No. EP-510/2016

EP Conditions	Submission	Submission Date	Approval Status
1.12	Notification of Commencement Date of Construction	3 rd June 2020	*
2.7	Proposal on the Reporting Mechanism and Curriculum Vitae of the IEC	6 th February 2020	*
2.11	Management Organizations	9 th March 2020	*
2.12	Construction Works Schedule and Location Plans	20 th March 2020	*
2.13 & 2.14	Detailed Vegetation Survey Report (Version 1.0)	2 nd April 2020	Approved
	Detailed Vegetation Survey Report (Version 2.0)	8 th May 2020	
	Detailed Vegetation Survey Report (Version 3.0)	9 th July 2020	
2.4 & 2.14	Transplantation Proposal (Version 1.0)	2 nd April 2020	Approved
	Transplantation Proposal (Version 2.0)	8 th May 2020	
	Transplantation Proposal (Version 3.0)	9 th July 2020	
2.15	Baseline Survey Report for Golden-Headed Cisticola	9 th March 2020	Approved
2.16	Explanatory Statement for Revised Layout Plan of Kong Nga Po Road	10 th March 2020	Approved
2.17	Layout Plan for Permeable Pavings	2 nd August 2022 (The demarcation and detail design of the permeable paving is subject to the design by ArchSD's Contractor)	N/A
2.18 & 2.19	Landscape and Visual Mitigation Plan	7 th April 2020	Approved
	Landscape and Visual Mitigation Plan (Revised Final Rev. 4)	28 th September 2020	
2.20	Plan for Perimeter Walls/ Boundary Walls at Project Site and Side Walls of Firing Range	To be submitted at least one month before the commencement of construction of relevant part(s) of the Project (under ArchSD's building works Contract)	N/A
2.23	Helicopter Flight Plan	To be submitted at least one month before the commencement of operation of the Helipad (under ArchSD's building works Contract)	N/A
3.4	Baseline Air Quality and Noise Monitoring Report	20 th April 2020	*
3.4	Baseline Monitoring Report for Landscape and Visual Resources	21 st April 2020	*

Remarks: * Approval not required in EP-510/2016
N/A – Not applicable at this stage

3 AIR QUALITY MONITORING

Monitoring Requirements

- 3.1 In accordance with the EM&A Manual, impact 1-hour TSP monitoring was conducted to monitor the air quality for the Works Contracts. **Appendix B** shows the established Action/Limit Levels for the air quality monitoring works.
- 3.2 Impact 1-hour TSP monitoring was conducted for at least three times every 6 day at one air quality monitoring station.

Monitoring Location

- 3.3 According to Section 2.2.5 of the EM&A Manual, impact air quality monitoring was conducted at the two designated monitoring stations for the Project as shown in **Figure 2**. **Table 3.1** describes the location of the air quality monitoring stations.

Table 3.1 Location for Air Quality Monitoring Stations

Monitoring Station	Location of Measurement
AM1	Village House, Kong Nga Po
AM2	Village House, Kong Nga Po

Monitoring Equipment

- 3.4 As the setup of HVS for 1-hour TSP monitoring at the designated locations and request for secured supply of electricity for HVS were not allowed by the villager, direct reading dust meters was therefore used to carry out the 1-hour TSP monitoring. Dust meter has been commonly used for measuring 1-hour TSP levels in a number of designated projects of major infrastructure works. The proposed use of direct reading dust meter was submitted to IEC and agreed by the IEC. With the use of direct reading dust meter, it can allow prompt and direct results for the EM&A reporting and the implementation of the event and action plan. The 1-hour sampling was determined on bi-monthly basis by the HVS to check the validity and accuracy of the results measured by direct reading method.
- 3.5 **Table 3.2** summarises the equipment used in the impact air quality monitoring programme. Copies of calibration certificates are attached in **Appendix C**.

Table 3.2 Air Quality Monitoring Equipment

Equipment	Model and Make	Quantity
Dust Monitor	AEROCET-831	4

- 3.6 Meteorological information was extracted from “Hong Kong Observatory - Ta Kwu Ling Weather Station” as the alternative method to obtain representative wind data. For Ta Kwu Ling Weather Station, it is located nearby the Project site and situated at approximately 15m above mean sea level. The station’s wind data monitoring equipment is set above the existing ground ten meters in compliance with the general setting up requirement. Furthermore, this station also provides other meteorological information, such as the humidity, rainfall, air pressure and temperature etc. The general meteorological conditions and the meteorological data at Ta Kwu Ling Weather Station are presented in **Appendix G**.

- 3.7 The general weather conditions (i.e. sunny, cloudy or rainy) were recorded by the field staffs during the monitoring day.

Monitoring Parameters, Frequency and Duration

- 3.8 **Table 3.3** summarises the monitoring parameters and frequencies of impact dust monitoring during the Works Contracts activities. The air quality monitoring schedule for the reporting month is shown in **Appendix D**.

Table 3.3 Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency
1-hr TSP	Three times/ 6 days

Monitoring Methodology and QA/QC Procedure

1-hour TSP Air Quality Monitoring

Instrumentation

- 3.9 Direct reading dust meter was deployed for the air quality monitoring as shown in **Table 3.2**.
- 3.10 The measuring procedures of the dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

(Met One Instrument: Model no/ AEROCET-831)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Press and hold the Power key momentarily to power on the unit and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 second to display the Sample Screen minutes.
- Press the START / STOP key to run the internal vacuum pump for 1 minute and ready to use.
- Use the select dial to select the PM range and press the START / STOP key to start a measurement.
- Finally, push the START/STOP key to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, value and site condition were recorded during the monitoring period.
- All data were recorded in the data logger for further data processing.

Maintenance/Calibration

- 3.11 The following maintenance/calibration was required for the direct dust meters:
- Check and calibrate the dust meter by high volume sampler (HVS) to check the validity and accuracy of the results measured by direct reading method. Calibration of dust meter should be carried out on a bi-monthly basis throughout all stages of the air quality monitoring.
 - The correlation of dust meter and HVS in TSP measurement was obtained by direct comparison of the weight of dust particle trapped in a filter paper using HVS with the

reading of the dust meter. Calibration of the dust meter with HVS should be powered on and off at the same location and the same time.

- The correlation coefficient was checked to establish the correlation relationship between the dust meter and HVS. The correlation factor was determined by comparing the results of HVS and dust meter.
- Checking is made prior to dust monitoring commencing to ensure all equipment is in good working condition with necessary power supply. Zero count test were conducted before and after each monitoring event.

Results and Observations

- 3.12 The monitoring results for 1-hour TSP monitoring are summarised in **Table 3.4**. Detailed monitoring results and graphical presentations of 1-hour TSP monitoring results are shown in **Appendix E**.

Table 3.4 Summary Table of 1-hour TSP Monitoring Results during the Reporting Month

Monitoring Station	Concentration ($\mu\text{g}/\text{m}^3$)		Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
	Average	Range		
AM1	117.8	47.3 – 272.9	308	500
AM2	86.4	32.2 – 116.2	311	

- 3.13 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedances were recorded.
- 3.14 According to our field observations, the major dust source identified at the designated air quality monitoring stations in the reporting month are shown in **Table 3.5**:

Table 3.5 Observation at Dust Monitoring Stations

Monitoring Station	Major Dust Source
AM1	Road traffic, exposed site area, site vehicle / equipment operation and movement
AM2	Road traffic, exposed site area, site vehicle / equipment operation and movement, vehicle / equipment operation and movement at warehouse nearby

Event and Action Plan

- 3.15 Should project-related non-compliance of the criteria occur, action in accordance with the Event Action Plan in **Appendix I** shall be carried out.

4 NOISE MONITORING

Monitoring Requirements

- 4.1 In accordance with EM&A Manual, construction noise monitoring was conducted in terms of the A-weighted equivalent continuous sound pressure level (Leq) to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station shall be on a weekly basis and one set of measurements between 0700 and 1900 hours on normal weekdays shall be conducted. **Appendix B** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Location

- 4.2 According to Section 3.2.3 of the EM&A Manual, impact noise monitoring was conducted at fourteen designated noise monitoring stations as shown in **Figure 3**. **Table 4.1** describes the locations of the noise monitoring stations.

Table 4.1 Location of Noise Monitoring Stations

Monitoring Station	Location of Measurement
NM1	Village House, Sha Ling
NM2	Village House, Sha Ling
NM3	Village House No. 248, Sha Ling
NM4	Village House, Sha Ling
NM5	*Village House No. 270, Sha Ling
NM6	Village House, Sha Ling
NM7	Village House, Sha Ling
NM8	Village House, Sha Ling
NM9	Village House, Kong Nga Po
NM10	Village House, Kong Nga Po
NM11	Village House, Kong Nga Po
NM12	Village House, Kong Nga Po
NM13	Village House, Kong Nga Po
NM14	Village House, near Man Kam To Road

Note: *The location of NM5 as shown in Figure 3.1 of the EM&A Manual and Figure 4.2 of the EIA Report is Village House No.270, Sha Ling, not Village No. 272, Sha Ling according to <https://www.map.gov.hk/gm/map/s/B/1107625418>

Monitoring Equipment

- 4.3 Integrating Sound Level Meters were used for impact noise monitoring. The meters were Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (Leq) and percentile sound pressure level (Lx) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 4.2** summarises the noise monitoring equipment being used. Copies of calibration certificates are attached in **Appendix C**.

Table 4.2 Noise Monitoring Equipment

Equipment	Model	Quantity
Integrating Sound Level Meter	BSWA 308	5
Acoustical Calibrator	SVANTEK SV30A	3

Monitoring Parameters, Frequency and Duration

- 4.4 **Table 4.3** summarises the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

Table 4.3 Noise Monitoring Parameters, Duration and Frequency

Monitoring Stations	Parameter	Duration	Frequency	Measurement
NM1	$L_{10(30 \text{ min.})} \text{ dB(A)}^{[2]}$ $L_{90(30 \text{ min.})} \text{ dB(A)}^{[2]}$ $L_{\text{eq}(30 \text{ min.})} \text{ dB(A)}^{[2]}$ (as six consecutive $L_{\text{eq}, 5\text{min}}$ readings)	0700-1900 hrs on normal weekdays	Once per week	Free field ^[1]
NM2				Free field ^[1]
NM3				Facade
NM4				Facade
NM5				Facade
NM6				Free field ^[1]
NM7				Facade
NM8				Free field ^[1]
NM9				Free field ^[1]
NM10				Free field ^[1]
NM11				Façade
NM12				Façade
NM13				Free field ^[1]
NM14				Free field ^[1]

Remarks:

[1]: Correction of +3dB (A) for Free-field Measurement.

[2]: A-weighted equivalent continuous sound pressure level (L_{eq}). It is the constant noise level which, under a given situation and time period, contains the same acoustic energy as the actual time-varying noise level.

L_{10} is the level exceeded for 10% of the time. For 10% of the time, the sound or noise has a sound pressure level above L_{10} .

L_{90} is the level exceeded for 90% of the time. For 90% of the time, the noise level is above this level.

Monitoring Methodology and QA/QC Procedures

- 4.5 The monitoring procedures are as follows:

- The sound level meter was set on a tripod at a point 1m from the exterior of the noise sensitive facade and at the position of 1.2m above the ground;
- For free field measurement, the meter was positioned away from any nearby reflective surfaces. Free field noise levels was adjusted with a correction of +3 dB(A);
- The battery condition was checked to ensure the correct functioning of the meter;

- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - frequency weighting : A
 - time weighting : Fast
 - time measurement : $L_{eq(30 \text{ min.})}$ dB(A)
(as six consecutive $L_{eq, 5 \text{ min}}$ readings) during non-restricted hours (i.e. 0700-1900 hrs on normal weekdays)
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment;
- During the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet;
- Noise measurement was paused temporarily during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible and observation record during measurement period should be provided; and
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. The wind speed should be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Maintenance and Calibration

- 4.6 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 4.7 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 4.8 Immediately prior to and following each noise measurement, the accuracy of the sound level meter should be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements would be accepted as valid only if the calibration levels before and after the noise measurement agreed to within 1.0 dB.

Results and Observations

- 4.9 The noise monitoring results are summarised in **Table 4.4**. Detailed monitoring results and graphical presentations of noise monitoring are shown in **Appendix F**. The weather information for the reporting month is summarised in **Appendix G**.

Table 4.4 Summary Table of Noise Monitoring Results during the Reporting Month

Monitoring Station	Average $L_{eq(30 \text{ min})}$ dB(A)	Range $L_{eq(30 \text{ min})}$ dB(A)	Baseline Level dB(A)	Limit Level dB(A)
NM1 ^[1]	58.1	54.6 – 60.6	54.9	75.0
NM2 ^[1]	59.0	53.7 – 62.2	56.7	
NM3	59.7	57.7 – 61.2	54.5	

Monitoring Station	Average L_{eq} (30 min) dB(A)	Range L_{eq} (30 min) dB(A)	Baseline Level dB(A)	Limit Level dB(A)
NM4	60.8	60.2 – 61.7	58.7	
NM5	56.9	54.2 – 59.2	57.0	
NM6 ^[1]	59.6	55.6 – 61.8	56.0	
NM7	52.2	49.7 – 53.6	49.8	
NM8 ^[1]	55.8	49.5 – 59.5	57.6	
NM9 ^[1]	61.0	56.6 – 65.1	55.9	
NM10 ^[1]	56.0	54.0 – 58.9	52.8	
NM11	50.5	45.9 – 52.4	46.4	
NM12	55.7	53.3 – 57.4	54.7	
NM13 ^[1]	55.2	44.3 – 57.7	61.3	
NM14 ^[1]	57.1	48.5 – 60.9	59.6	

Remarks:

[1]: Correction of +3dB (A) for Free-field Measurement.

- 4.10 Construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. The summary of exceedance record in reporting month is shown in **Appendix J**.
- 4.11 According to our field observations, the major noise sources identified at the designated noise monitoring stations in the reporting month are as follows:

Table 4.5 Observation at Noise Monitoring Stations

Monitoring Station	Major Noise Source
NM1	Road traffic, excavation works, loading & unloading, sheet piling works, breaking works
NM2	Road traffic, excavation works, loading & unloading, sheet piling works, breaking works
NM3	Road traffic, excavation works, loading & unloading, sheet piling works, breaking works, concreting works
NM4	Road traffic, excavation works, loading & unloading, breaking works
NM5	Road traffic, excavation works, loading & unloading, breaking works
NM6	Road traffic, excavation works, loading & unloading, breaking works
NM7	Road traffic, excavation works, loading & unloading, breaking works
NM8	Road traffic, excavation works, loading & unloading, breaking works
NM9	Road traffic, excavation works, loading & unloading, sheet piling
NM10	Road traffic, excavation works, loading & unloading, sheet piling
NM11	Road traffic, excavation works, loading & unloading, sheet piling
NM12	Road traffic, excavation works, loading & unloading
NM13	Road traffic, loading & unloading
NM14	Road traffic, dog barking

Event and Action Plan

- 4.12 Should any project related non-compliance of the criteria occur, action in accordance with the Event Action Plan in **Appendix I** shall be carried out.

5 ECOLOGICAL MONITORING

Monitoring of Flora Species of Conservation Interest

- 5.1 As required under Section 8.3.2 of EM&A Manual, during construction phase, temporary protective fence shall be erected enclosing the flora species of conservation interest identified under the detailed vegetation survey. The temporary protective fence shall be properly maintained and monitored for the effectiveness. Monthly monitoring of individual of flora species of conservation interest identified in the detailed vegetation survey shall be conducted during the construction phase to make sure that the flora species of conservation interest are not affected by the construction activities of the Project.
- 5.2 The purpose of the monitoring is to monitor the timely implementation of proper environmental management practices and mitigation measures for the retained and transplanted individuals of flora species of conservation interest. Proper erection and maintenance of the temporary protective fence enclosing the individuals was inspected for the effectiveness. The recommended protection measures in the implementation schedule as stated in approved transplantation proposal were monitored and the conditions of the individuals of flora species of conservation interest were recorded as shown in **Table 5.1**.
- 5.3 According to the approved detailed vegetation survey report and transplantation proposal, 71 individuals of *Brainea insignis*, 41 individuals of *Spiranthes sinensis* and 3 individuals of *Aquilaria sinensis* were identified to be transplanted to the receptor site. 51 individuals of *Keteleeria fortunei*, 26 undersized seedlings of *Keteleeria fortunei* and 7 undersized seedlings of *Aquilaria sinensis* were identified to be retained along Kong Nga Po Road near Police Dog Unit and Force Search Unit Training School.

Post-Transplantation Monitoring and Maintenance Programme

- 5.4 According to approved transplantation proposal, post-transplantation monitoring should be conducted by the Contractor once per week in the first three months and once per month afterwards during the 12-month establishment period and the post-establishment period until the end of construction phase of the Project. Regular monitoring allows early detection of the growth status of transplanted species, sign of construction activity within and nearby the receptor site, and any environmental change of the receptor site.
- 5.5 Maintenance works were recommended for the first year of establishment to allow health growth of the transplanted species. In view of the condition of transplanted individuals after the 12-month establishment period, maintenance works were recommended to extend during the Post-establishment Period until the end of Construction Phase. Watering was recommended in daily practice during the first three months after the transplantation and during dry season. Watering frequency may be reduced to at least twice a week and adjusted based on the plant condition to keep the soil moist. Other maintenance works like use of mulch and weeding shall be conducted if required.
- 5.6 Part of the construction site including the approved receptor site for *Brainea insignis* and *Spiranthes sinensis* was handed over to Architectural Services Department (ArchSD) on 23rd December 2022. The post-transplantation maintenance and monitoring works for *Brainea insignis* and *Spiranthes sinensis* were conducted by the Contractor under Contract No. SSK509 starting from February 2023.

Results and Observations

- 5.7 Monthly monitoring of flora species of conservation interest was conducted by ET on 24th February 2023 during the reporting month. The implementation status of protection measures as stated in approved transplantation proposal and the maintenance of temporary protective fence were inspected. The implementation status of protection measures is shown in **Table 5.1** and photographic record and checklists for monthly monitoring are shown in **Appendix H**. The health conditions of the transplanted / retained species are generally in fair to poor condition. The Contractor was reminded to closely monitored the transplanted species and implemented the protection measures according to the approved transplantation proposal to protect the transplanted / retained species.

Transplanted *Brainea insignis* and *Spiranthes sinensis*

- 5.8 71 individuals of *Brainea insignis* and 41 individuals of *Spiranthes sinensis* were transplanted to receptor site from 21st to 26th May 2020. Transplantation Report recording the process of transplantation have been submitted to ET, IEC and the *Supervisor* for review and record. Post-transplantation monitoring was conducted once per week in the first three months (June to August 2020) and once per month during the 12-month establishment period and the post-establishment period until the end of construction phase of the Project. The health condition of the transplanted species was monitored by the Contractor. The Contractor provided maintenance works including watering, use of mulch and weeding in the first year of establishment to allow health growth of the transplanted species. Post-transplantation monitoring on transplanted *Brainea insignis* and *Spiranthes sinensis* was conducted by the Contractor under Contract No. SSK509 on 25th February 2023 during the reporting month and the post-transplantation monitoring record is shown in **Appendix H**. The health condition of the transplanted *Brainea insignis* affected by bushfire on 2nd February 2021 were closely monitored and reported in the post-transplantation monitoring records.
- 5.9 During monthly monitoring, no construction activity and equipment storage was observed within the receptor site. Temporary protective fence was properly erected and maintained for the transplanted species.

Transplanted *Aquilaria sinensis*

- 5.10 3 individuals of *Aquilaria sinensis* were transplanted to receptor site from 3rd to 19th October 2020. Transplantation Report recording the process of transplantation have been submitted to ET, IEC and the *Supervisor* for review and record. Post-transplantation monitoring was conducted once per week in the first three months (October 2020 to January 2021) and once per month during the 12-month establishment period and the post-establishment period until the end of construction phase of the Project. The health conditions of the transplanted species were monitored by the Contractor. The Contractor provided maintenance works including watering, use of mulch and weeding in the first year of establishment to allow health growth of the transplanted species.
- 5.11 The three individuals of transplanted *Aquilaria sinensis* A-008, A-0009 and A-0010 were collapsed after Typhoon Signal No. 8 in July 2022. According to the Tree Risk Assessment Report provided by the Contractor's landscape specialist, the collapsed trees have been removed on 16th July 2022.

Retained *Keteleeria fortunei* and *Aquilaria sinensis*

- 5.12 51 individuals of *Keteleeria fortunei*, 26 undersized seedlings of *Keteleeria fortunei* and 7 undersized seedlings of *Aquilaria sinensis* were identified to be retained along Kong Nga Po Road near Police Dog Unit and Force Search Unit Training School. Individuals of *Keteleeria fortunei* and *Aquilaria sinensis* were preserved based on the revised layout plan of Kong Nga Po Road.
- 5.13 During monitoring, no construction activity was observed within the area of retained species. Temporary protective fence was properly erected and maintained for the retained species. The photographic records for the retained individuals are shown in **Appendix H**.

Table 5.1 Implementation Status of Protection Measures for Flora Species of Conservation Interest

Recommended Mitigation Measures	Implementation Status
<i>Brainea insignis</i>	
Identification of Plant Species of Conservation Importance to be Retained / Transplanted To mark trees/plants proposed to be retained and to be transplanted on the layout plan prior to commencement of site construction works.	^
Protection of Plant Species of Conservation Importance prior to Site Clearance / Transplantation Works a) No site clearance shall be started at the locations of flora species of conservation interest until the transplantation works completed. b) Set up buffer zone to enhance the protection of flora species of conservation importance to be preserved / transplanted including the proposed location for transplantation when the site clearance works shall commence before the transplantation works completed.	N/A N/A
Temporary Protective Fence for Flora Species of Conservation Interest / Retained Tree a) To erect a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey. b) To set up a protection zone at least 1m from the plant / retained tree and erect robust, bright-coloured fencing of 1.5m in height.	^ ^
Maintenance of the Protection Zone for Flora Species of Conservation Interest / Retained Tree a) Monthly monitoring of flora species of conservation interest identified in the detailed vegetation survey should be conducted. b) To inspect the temporary protective fence whether it is properly erected and maintained during construction.	^ ^
Post-transplantation Monitoring a) Weekly post-transplantation monitoring of transplanted species in the first three months and monthly afterwards.	^
Maintenance of Transplanted Species a) To keep the soil moist by watering the receptor sites properly and adequately. b) To apply mulches on the soil surface over the plant root system, if required. c) To remove unwanted weeds found in receptor sites.	^ ^ ^
Other Protection Measures for Flora Species of Conservation Interest / Retained Tree / Vegetated Areas a) All works should be confined within the site boundary.	^

Recommended Mitigation Measures	Implementation Status
b) Access of site staff should be controlled.	^
c) Care should be taken to prevent trees/plants being damaged by mechanical equipment or stockpile both during site clearance works and construction works.	^
d) No fixings should be driven into trees/plants.	^
e) No workshop, canteens, or similar should be installed beneath trees/plants, nor will equipment maintenance etc. be carried out under trees/plants.	^
f) No excavation, including that for services or changes in ground level will take place within the spread of the crown of the trees / plants.	^
g) No soil, debris or construction materials should be deposited around and against the trunk of a tree/plant as this causes bark damage and compaction of the soil.	^
h) No fire should be lit below the branches and no petrol, oil or caustic substances stored near the trees/plants.	^
i) No trees/plants should be used for anchoring or winching purposes or for the display of signs.	^ ^
j) Any damage or injury to the retained / transplanted plants should be reported as soon as possible for repair immediately.	^
<i>Spiranthes sinensis</i>	
Identification of Plant Species of Conservation Importance to be Retained / Transplanted To mark trees/plants proposed to be retained and to be transplanted on the layout plan prior to commencement of site construction works.	^
Protection of Plant Species of Conservation Importance prior to Site Clearance / Transplantation Works a) No site clearance shall be started at the locations of flora species of conservation interest until the transplantation works completed. b) Set up buffer zone to enhance the protection of flora species of conservation importance to be preserved / transplanted including the proposed location for transplantation when the site clearance works shall commence before the transplantation works completed.	N/A N/A
Temporary Protective Fence for Flora Species of Conservation Interest / Retained Tree a) To erect a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey. b) To set up a protection zone at least 1m from the plant / retained tree and erect robust, bright-coloured fencing of 1.5m in height.	^ ^
Maintenance of the Protection Zone for Flora Species of Conservation Interest / Retained Tree a) Monthly monitoring of flora species of conservation interest identified in the detailed vegetation survey should be conducted. b) To inspect the temporary protective fence whether it is properly erected and maintained during construction.	^ ^
Post-transplantation Monitoring a) Weekly post-transplantation monitoring of transplanted species in the first three months and monthly afterwards.	^
Maintenance of Transplanted Species a) To keep the soil moist by watering the receptor sites properly and adequately. b) To apply mulches on the soil surface over the plant root system, if required. c) To remove unwanted weeds found in receptor sites.	^ ^ ^

Recommended Mitigation Measures	Implementation Status
<p>Other Protection Measures for Flora Species of Conservation Interest / Retained Tree / Vegetated Areas</p> <p>a) All works should be confined within the site boundary.</p> <p>b) Access of site staff should be controlled.</p> <p>c) Care should be taken to prevent trees/plants being damaged by mechanical equipment or stockpile both during site clearance works and construction works.</p> <p>d) No fixings should be driven into trees/plants.</p> <p>e) No workshop, canteens, or similar should be installed beneath trees/plants, nor will equipment maintenance etc. be carried out under trees/plants.</p> <p>f) No excavation, including that for services or changes in ground level will take place within the spread of the crown of the trees / plants.</p> <p>g) No soil, debris or construction materials should be deposited around and against the trunk of a tree/plant as this causes bark damage and compaction of the soil.</p> <p>h) No fire should be lit below the branches and no petrol, oil or caustic substances stored near the trees/plants.</p> <p>i) No trees/plants should be used for anchoring or winching purposes or for the display of signs.</p> <p>j) Any damage or injury to the retained / transplanted plants should be reported as soon as possible for repair immediately.</p>	<p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p>
<i>Keteleeria fortunei</i>	
<p>Identification of Plant Species of Conservation Importance to be Retained / Transplanted</p> <p>To mark trees/plants proposed to be retained and to be transplanted on the layout plan prior to commencement of site construction works.</p>	<p>^</p>
<p>Protection of Plant Species of Conservation Importance prior to Site Clearance / Transplantation Works</p> <p>a) No site clearance shall be started at the locations of flora species of conservation interest until the transplantation works completed.</p> <p>b) Set up buffer zone to enhance the protection of flora species of conservation importance to be preserved / transplanted including the proposed location for transplantation when the site clearance works shall commence before the transplantation works completed.</p>	<p>N/A</p> <p>N/A</p>
<p>Temporary Protective Fence for Flora Species of Conservation Interest / Retained Tree</p> <p>a) To erect a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey.</p> <p>b) To set up a protection zone at least 1m from the plant / retained tree and erect robust, bright-coloured fencing of 1.5m in height.</p>	<p>^</p> <p>^</p>
<p>Maintenance of the Protection Zone for Flora Species of Conservation Interest / Retained Tree</p> <p>a) Monthly monitoring of flora species of conservation interest identified in the detailed vegetation survey should be conducted.</p> <p>b) To inspect the temporary protective fence whether it is properly erected and maintained during construction.</p>	<p>^</p> <p>^</p>
<p>Post-transplantation Monitoring</p> <p>a) Weekly post-transplantation monitoring of transplanted species in the first three months and monthly afterwards.</p>	<p>N/A</p>
<p>Maintenance of Transplanted Species</p>	

Recommended Mitigation Measures	Implementation Status
a) To keep the soil moist by watering the receptor sites properly and adequately. b) To apply mulches on the soil surface over the plant root system, if required. c) To remove unwanted weeds found in receptor sites.	N/A N/A N/A
Other Protection Measures for Flora Species of Conservation Interest / Retained Tree / Vegetated Areas a) All works should be confined within the site boundary. b) Access of site staff should be controlled. c) Care should be taken to prevent trees/plants being damaged by mechanical equipment or stockpile both during site clearance works and construction works. d) No fixings should be driven into trees/plants. e) No workshop, canteens, or similar should be installed beneath trees/plants, nor will equipment maintenance etc. be carried out under trees/plants. f) No excavation, including that for services or changes in ground level will take place within the spread of the crown of the trees / plants. g) No soil, debris or construction materials should be deposited around and against the trunk of a tree/plant as this causes bark damage and compaction of the soil. h) No fire should be lit below the branches and no petrol, oil or caustic substances stored near the trees/plants. i) No trees/plants should be used for anchoring or winching purposes or for the display of signs. j) Any damage or injury to the retained / transplanted plants should be reported as soon as possible for repair immediately.	^ ^ ^ ^ ^ ^ ^ ^ ^ ^
<i>Aquilaria sinensis (Undersized Seedling)</i>	
Identification of Plant Species of Conservation Importance to be Retained / Transplanted To mark trees/plants proposed to be retained and to be transplanted on the layout plan prior to commencement of site construction works.	^
Protection of Plant Species of Conservation Importance prior to Site Clearance / Transplantation Works a) No site clearance shall be started at the locations of flora species of conservation interest until the transplantation works completed. b) Set up buffer zone to enhance the protection of flora species of conservation importance to be preserved / transplanted including the proposed location for transplantation when the site clearance works shall commence before the transplantation works completed.	N/A N/A
Temporary Protective Fence for Flora Species of Conservation Interest / Retained Tree a) To erect a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey. b) To set up a protection zone at least 1m from the plant / retained tree and erect robust, bright-coloured fencing of 1.5m in height.	^ ^
Maintenance of the Protection Zone for Flora Species of Conservation Interest / Retained Tree a) Monthly monitoring of flora species of conservation interest identified in the detailed vegetation survey should be conducted. b) To inspect the temporary protective fence whether it is properly erected and maintained during construction.	^ ^
Post-transplantation Monitoring a) Weekly post-transplantation monitoring of transplanted species in the first three months and monthly afterwards.	N/A

Recommended Mitigation Measures	Implementation Status
Maintenance of Transplanted Species	
a) To keep the soil moist by watering the receptor sites properly and adequately.	N/A
b) To apply mulches on the soil surface over the plant root system, if required.	N/A
c) To remove unwanted weeds found in receptor sites.	N/A
Other Protection Measures for Flora Species of Conservation Interest / Retained Tree / Vegetated Areas	
a) All works should be confined within the site boundary.	^
b) Access of site staff should be controlled.	^
c) Care should be taken to prevent trees/plants being damaged by mechanical equipment or stockpile both during site clearance works and construction works.	^
d) No fixings should be driven into trees/plants.	^
e) No workshop, canteens, or similar should be installed beneath trees/plants, nor will equipment maintenance etc. be carried out under trees/plants.	^
f) No excavation, including that for services or changes in ground level will take place within the spread of the crown of the trees / plants.	^
g) No soil, debris or construction materials should be deposited around and against the trunk of a tree/plant as this causes bark damage and compaction of the soil.	^
h) No fire should be lit below the branches and no petrol, oil or caustic substances stored near the trees/plants.	^
i) No trees/plants should be used for anchoring or winching purposes or for the display of signs.	^
j) Any damage or injury to the retained / transplanted plants should be reported as soon as possible for repair immediately.	^

Implementation status:	^	Mitigation measure was fully implemented
	*	Observation/reminder was made during monitoring but improved/rectified by the contractor
	#	Observation/reminder was made during monitoring but not yet improved/rectified by the contractor
	X	Non-compliance of mitigation measure
	•	Non-compliance but rectified by the contractor
	N/A	Not Applicable at this stage as no such site activities were conducted in the reporting period

Mitigation Measure for Golden-headed Cisticola

- 5.14 According to EP Condition 2.15, a baseline survey-for Golden-headed Cisticola for the Project was conducted and the baseline survey report was submitted. The mitigation measures detailed in the documents are recommended to minimise the noise, light and water quality impact from construction works to avifauna. Good site practice measures shall be implemented throughout the construction period. The recommended mitigation measures are summarised as following:

Noise

- Silencers or mufflers on well-maintained construction equipment should be utilized and properly maintained during the construction program
- Noise enclosure or acoustic shed should be effectively utilized, where practicable
- Machines or equipment known to emit noise or light strongly in one direction should, wherever possible, be orientated the noise away from the adjacent habitat

Light

- Adjusting the outdoor lighting to lower intensity
- Use of directional lighting to avoid light spill into sensitive areas
- Control/timing of lighting periods of some facilities, particularly those close to the ecological sensitive receivers

Water

- Proper drainage system installed to collect and dispose rainwater.
- Installation of sediment/rubbish trapping facilities (e.g. catch pits or sand/silt traps to contain the increase in suspended solids and materials in the storm water drainage system so as to avoid pollutants being washed out during heavy rainstorms)

Good Site Practice Measures

- Placement of stockpiling into designated area should be selected at disturbed area in order to minimize the disturbance to wildlife
- Open fire should be strictly prohibited
- The boundary of project boundary should be clearly demarcated
- General drainage system arrangement should include sediment and oil trapper to collect the site run-off
- Waste bin should be provided to collect the general refuse and construction waste

5.15 Site audits were conducted by ET on weekly basis to monitor the timely implementation of the recommended mitigation measures by the Contractor on the Project site. The observations are summarised in **Table 7.1** and the implementation status is given in **Appendix K**. Toolbox talk training related to ecological protection has been provided by the Contractor to site staff and frontline workers. Presence of avifauna and bird nest were checked prior to site clearance work.

Precautionary Measure for Butterfly Species of Conservation Interest

5.16 According to EP Condition 2.21, with consideration of minimizing impact on butterfly species of conservation interest recorded at the grassland in the Project site, planting of common grass species which are the larval food plants for butterfly species such as Small Three-Ring are included in Landscape and Visual Mitigation Plan.

5.17 The re-establishment of grassland areas in the Project shall be implemented before Commencement of Operation of the Project. Details of the plant species as larval food plants of butterflies including design and implementation arrangement will be further submitted under ArchSD's building works contract.

Precautionary Measures to Minimize Indirect Disturbance on Ecology

5.18 In accordance with Section 9.7.3 of EIA Report, mitigation measures for air, noise, water,

waste and landscape aspects could act as precautionary measures to prevent and minimize any indirect disturbance impact or pollution arisen from the construction activities on the local ecology and offsite habitats. Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures on the Project site and the observations are summarised in Section 7.3.

6 LANDSCAPE AND VISUAL MONITORING

Monitoring Requirements

- 6.1 The EIA Report has recommended mitigation measures for landscape and visual resources to be undertaken during the construction and operation phases of the Project.
- 6.2 These measures include the consideration of a number of development options and the provision of mitigation measures to directly offset unavoidable impacts. The measures include strategies for reducing, offsetting and compensating impacts during construction and operation phases according to Section 10.13 in the EIA Report.
- 6.3 The implementation and maintenance of landscape compensatory planting measures is a key aspect of this and shall be checked to ensure that they are fully realised and that potential conflicts between the proposed landscape measures and any other Project works and operational requirements are resolved at the earliest possible date and without compromise to the intention of the mitigation measures. In addition, implementation of the mitigation measures recommended by the EIA shall be monitored throughout the construction phase site audit programme.
- 6.4 Bi-weekly inspection of the implementation of landscape and visual mitigation measures was conducted by ET during weekly site audit. The observation and recommendations made during the audit sessions are summarised in **Table 7.1**. The implementation status is given in **Appendix K**.

7 ENVIRONMENTAL SITE INSPECTION

Site Audits

- 7.1 Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures on the Contract site.
- 7.2 Site audits were conducted by ET with the representative of the *Supervisor's* Representative and the Contractor on 3rd, 10th, 17th and 24th February 2023 in the reporting month. Joint site audits with the representative of the *Supervisor's* Representative, the Contractor and IEC were carried out on 17th February 2023.
- 7.3 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations made during the audit sessions are summarised in **Table 7.1**.

Table 7.1 Observations and Recommendations of Site Audit

Parameters	Date	Observations	Follow Up Action
Air Quality	--	No environmental deficiency was identified during the reporting month.	--
Construction Noise Impact	--	No environmental deficiency was identified during the reporting month.	--
Water Quality	03/02/2023	Mud trails were observed at the site exit of the works area near dog unit. The Contractor was reminded to ensure the access road leading to and existing from the wheel washing facilities should be paved.	The site exit has been closed to further control the vehicle in-out-out of the site. Wheel washing facilities have also been provided and workers has performed road washing regularly to maintain cleanliness at interfaces as observed during follow-up audit session on 10/02/2023.
	17/02/2023	To clear the sand and debris at the slope drains near dog unit.	The slope drains have been cleared by the Contractor as observed during follow-up audit session on 24/02/2023.
	17/02/2023	To clear the rubbish at the silt retention pond as well as the connecting drain and ensure the adequate capacity of the silt retention pond with regular maintenance of wetsep (Abutment B).	The rubbish at the silt retention pond and the connecting drain have been cleared by the Contractor as observed during follow-up audit session on 24/02/2023. The maintenance records of wetsep have also been updated by the Contractor as observed during follow-up audit session on 24/02/2023.

Parameters	Date	Observations	Follow Up Action
Waste/ Chemical Management	03/02/2023	The construction waste materials should be disposed properly at Platform E.	The construction waste materials have been cleared by the Contractor as observed during follow-up audit session on 10/02/2023.
		Clear the oil leakage at near the air compressor at works area near dog unit.	The oil leakage has been cleared by the Contractor as observed during follow-up audit session on 10/02/2023.
	10/02/2023	The dusty materials remaining after realignment of construction site should be cleared from the surface of roads near dog unit.	The remaining dusty materials have been cleared by the Contractor as observed during follow-up audit session on 17/02/2023.
	17/02/2023	To clear the sand and debris at the slope drains near dog unit.	The slope drains have been cleared by the Contractor as observed during follow-up audit session on 24/02/2023.
	24/02/2023	The accumulated construction waste materials at the works area near dog unit should be cleared regularly.	The accumulated construction waste materials have been cleared by the Contractor as observed during follow-up audit session on 03/03/2023.
	24/02/2023	The chemical containers should be placed on site with drip tray (near dog unit and C43).	The chemical containers without drip tray have been removed off site by the Contractor as observed during follow-up audit session on 03/03/2023.
Landscape and Visual	03/02/2023	Provide remedial works for the retain trees with exposed roots (near dog unit).	Follow-up action is needed in the next audit session.
	10/02/2023	Provide remedial works for the retain trees with exposed roots (near dog unit).	Follow-up action is needed in the next audit session.
	17/02/2023	Provide remedial works for the retain trees with exposed roots (near dog unit).	The preserved tree has been staked by bamboo poles by the Contractor as observed during follow-up audit session on 24/02/2023.
	17/02/2023	To remove and avoid materials hanging from the retain tree at Abutment B.	The hanging materials have been removed by the Contractor as observed during follow-up audit session on 24/02/2023.
Ecology	--	No environmental deficiency was identified during the reporting month.	--
Permit/Licences	--	No environmental deficiency was identified during the reporting month.	--

Implementation Status of Environmental Mitigation Measures

- 7.4 According to the EIA Report, Environmental Permit and the EM&A Manual of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix K**.
- 7.5 During site inspections in the reporting month, the Contractor's readiness with the mitigation measures during dry season against dust emission was found generally satisfactory despite some observations/recommendations as detailed above were raised. The mitigation measures implemented in February 2023 are shown in the summary table in **Appendix K**.

Solid and Liquid Waste Management Status

- 7.6 In accordance with the EM&A Manual, waste management was audited during weekly site audit to determine if wastes are being managed in accordance with the Waste Management Plan (WMP) prepared for the Project and the relevant legislative and contractual requirements. Waste management practice including waste handling, storage, transportation and disposal were audited.
- 7.7 The Contractor have nominated on-site Environmental Officers to oversee the environmental management, pollution control measures, good site practices and training of site personnel in waste management. Proactive measures have been undertaken to make use of construction and demolition (C&D) materials to minimize the waste generated. On-site sorting and screening of excavated materials have been carried out to recover any recyclable portions. Inert C&D materials were used on-site for backfilling works and hard paving of haul road. In addition, inert C&D materials generated from excavation works were reused as fill materials in other local projects. The surplus inert C&D materials were disposed of at the Government's public fill reception facilities (PFRFs) for beneficial use by other projects. In order to monitor the disposal of inert and non-inert C&D materials and to control fly-tipping, every excavated materials before leaving the site are weighted by a weight bridge and Trip Ticket System is strictly followed.
- 7.8 The Contractors are advised to minimize the wastes generated through the recycling or reusing. All mitigation measures stipulated in the EM&A Manual and waste management plans shall be fully implemented. The status of implementation of waste management and reduction measures are summarised in **Appendix K**.
- 7.9 Waste generated from this Project includes inert C&D materials and non-inert C&D materials. Non-inert C&D materials are made up of general refuse and waste that cannot be reused or recycled and has to be disposed of at the designated landfill sites. The amount of wastes generated by the construction works of the Project during the reporting month is shown in **Appendix L**.

8 ENVIRONMENTAL NON-CONFORMANCE

Summary of Exceedances

- 8.1 No exceedance of Action and Limit Levels of air quality was recorded in the reporting month.
- 8.2 No exceedance of Action and Limit Levels of construction noise was recorded in the reporting month.
- 8.3 Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that the Action / Limit Levels are exceeded, the actions in accordance with the Event and Action Plans in **Appendix I** be carried out. The summary of exceedance record in reporting month is shown in **Appendix J**.

Summary of Environmental Non-Compliance

- 8.4 No environmental non-compliance was recorded in the reporting month.

Summary of Environmental Complaint

- 8.5 In accordance with the EM&A Manual, Section 11.3, complaints should be referred to the ET for action. During the complaint investigation works, the ET and IEC as established according to EP Condition 2.1 and 2.6 can carry out *Ad-hoc* site inspections to identify the source of the complaint, review the effectiveness of the Contractor's remedial measures and the updated situation once received the complaint. In addition, additional monitoring and audit can also be arranged immediately to verify the situation if necessary. ET and IEC will also oversee the circumstances that leading to the complaint do not recur. Moreover, ET and IEC can cooperate efficiently with the Contractor and *Supervisor* on site for completion of the investigation.
- 8.6 There was one environmental complaint related to air quality received in the reporting month. The Cumulative Complaint Log since the commencement of the Project is presented in **Appendix M**.

Summary of Environmental Summon and Successful Prosecution

- 8.7 There was no successful environmental prosecution or notification of summons received since the Project commencement. The Cumulative Log for environmental summon and successful prosecution since the commencement of the Project is presented in **Appendix N**.

9 FUTURE KEY ISSUES

Key Issues in the Coming Three Months

- 9.1 The tentative construction programmes for the Project are provided in **Appendix A**. The major construction activities undertaken in the coming three months will include:

Contract No. ND/2018/01 – Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

- Retaining Wall Construction
- Slope Upgrading Works
- Road & Associated Works
- Sewerage Trenchless Works
- Drainage & Watermain Trenchless works
- Bridge & Associated Works

Contract No. SSK509 - Design and Construction of Kong Nga Po Police Training Facilities

- Setting up of site office
- Ground investigation
- Plate load test and soil test
- Open cut excavation
- Removal of soil
- Construction of footings

- 9.2 With reference to the site layout plan including the indication of coming three months construction site activities in **Appendix A**, potential environmental impacts arising from the above construction activities are mainly associated with construction dust, noise, water quality, waste management, landscape and visual and ecology. The foreseeable environmental impacts were taken into consideration of the planned mitigation measures in the coming months.
- 9.3 The mitigation measures to be implemented for the coming three months were proposed by the Contractor and reviewed by ET, IEC and the *Supervisor* through Email, during site audit and SSMC meeting. The Proactive Environmental Protection Proforma summarizing the major site activities, potential environmental impacts and recommended mitigation measures was reviewed and endorsed by the *Supervisor*, ET and IEC and was shown in **Appendix A**.
- 9.4 The Contractor is recommended to arrange early preparation of water quality mitigation measures for the upcoming wet season (i.e., March to October). The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap. The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates. Efficient silt removal facilities shall deploy to ensure all treated effluent from wastewater treatment plant shall meet the requirements as stated in WPCO licences. The site drainage plan shall also be updated based on the site condition and construction programme.
- 9.5 Dust can be generated during construction works and exposed site area especially in dry days. To prevent high dust concentrations during the dry weather, the Contractor should pay

attention on the air quality mitigation measures as far as practicable to minimise the dust impact to the villages which are located adjacent to the Project works (refer to the layout plan in **Appendix A**). The Contractor was also reminded to follow the Project Implementation Schedule in approved EIA report / EM&A Manual to implement appropriate dust control measure including “Use of regular water spraying (once every 1.25 hours or 8 times per day) to reduce dust emissions from heavy construction activities (including ground excavation, earth moving, etc.) at all active works area exposed site surfaces and unpaved roads, particularly during dry weather and covering 80% of stockpiling area by impervious sheets and spraying all dusty material with water immediately prior to any loading transfer operations to keep the dusty materials wet during material handling at the stockpile areas” as well as the relevant dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation so that no adverse dust impact arising from the Project works site.

- 9.6 In addition, construction noise is also one of the key environmental issues during construction of the Project. Noise mitigation measures such as using quiet plants and noise barriers should be in place, where applicable. In addition, the Contractor was reminded to frequently check and maintain the acoustic materials wrapped on noisy part of PME and ensure no gaps between noise barriers; proactively identify any potential construction noise impact to NSRs and provide sufficient mitigation measures if necessary; and provide notification to nearby villagers in Kong Nga Po for potential noisy works at works area.
- 9.7 Moreover, the tree protection zone for the existing *Keteleeria fortunei* and *Aquilaria sinensis* shall be properly maintained during the Kong Nga Po Road upgrading works in close proximity of the plant species of conservation importance according to the approved “Explanatory Statement for Revised Layout Plan of Kong Nga Po Road (Final)”.
- 9.8 All other mitigation measures recommended in the Project Implementation Schedule in the approved EIA report / EM&A Manual should be properly implemented and maintained as far as practicable.

Monitoring Schedule for the Next Month

- 9.9 The tentative environmental monitoring schedule for the next month is shown in **Appendix D**.

10 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 10.1 This Monthly EM&A Report presents the EM&A work undertaken in February 2023 in accordance with EM&A Manual.
- 10.2 No Action/Limit Level exceedance was recorded for air quality monitoring in the reporting month.
- 10.3 No Action/Limit Level exceedance was recorded for construction noise monitoring in the reporting month.
- 10.4 Environmental site inspections were conducted on 3rd, 10th, 17th and 24th February 2023 by ET in the reporting month. No environmental non-compliance was recorded in the reporting month.
- 10.5 One environmental complaint related to air quality, no notification of summons or successful prosecutions were received in the reporting month.
- 10.6 The ET would keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Recommendations

- 10.7 According to the environmental audits performed in the reporting month, the following recommendations were made:

Air Quality Impact

- To maintain the cover for stockpile of dusty materials and exposed slope for dust suppression;
- To enhance the dust suppression measures including watering for the dust generation works, exposed site area and haul road;
- To regular check the valid NRMM labels are properly displayed on the regulated machines and non-road vehicles; and
- To maintain the wheel washing facilities provided at every construction site exit where practicable are functioning properly.

Construction Noise

- To keep inspect the noise sources inside the site;
- To keep space out noisy equipment and position the equipment as far away as possible from sensitive receivers; and
- To maintain temporary noise barriers for operations of noisy equipment near the noise sensitive receivers, if necessary.

Water Impact

- To maintain the cover for open stockpile of and exposed slope;
- To keep reviewing and updating temporary drainage system;
- To maintain the earth bunds or sand bag barriers on site to direct stormwater to silt removal

facilities;

- To maintain and ensure the silt removal facilities are functioning properly;
- To maintain the wheel washing facilities provided at every construction site exit where practicable are functioning properly;
- To divert the muddy water at the retention pond to the wetsep for treatment before discharging out; and
- To review and update site drainage plan based on the current site condition, and implement water quality mitigation measures as appropriate.

Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site;
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the site;
- To maintain the drip tray well to prevent oil and chemical leakage; and
- To avoid improper handling, storage and dispose of oil drums or chemical containers on site.

Ecology

- To erect and maintain the protection fence around the retained trees / conservation species;
- To keep the tree protection zone large enough to protect the trees; and
- To remove the construction materials within the tree protection zone.

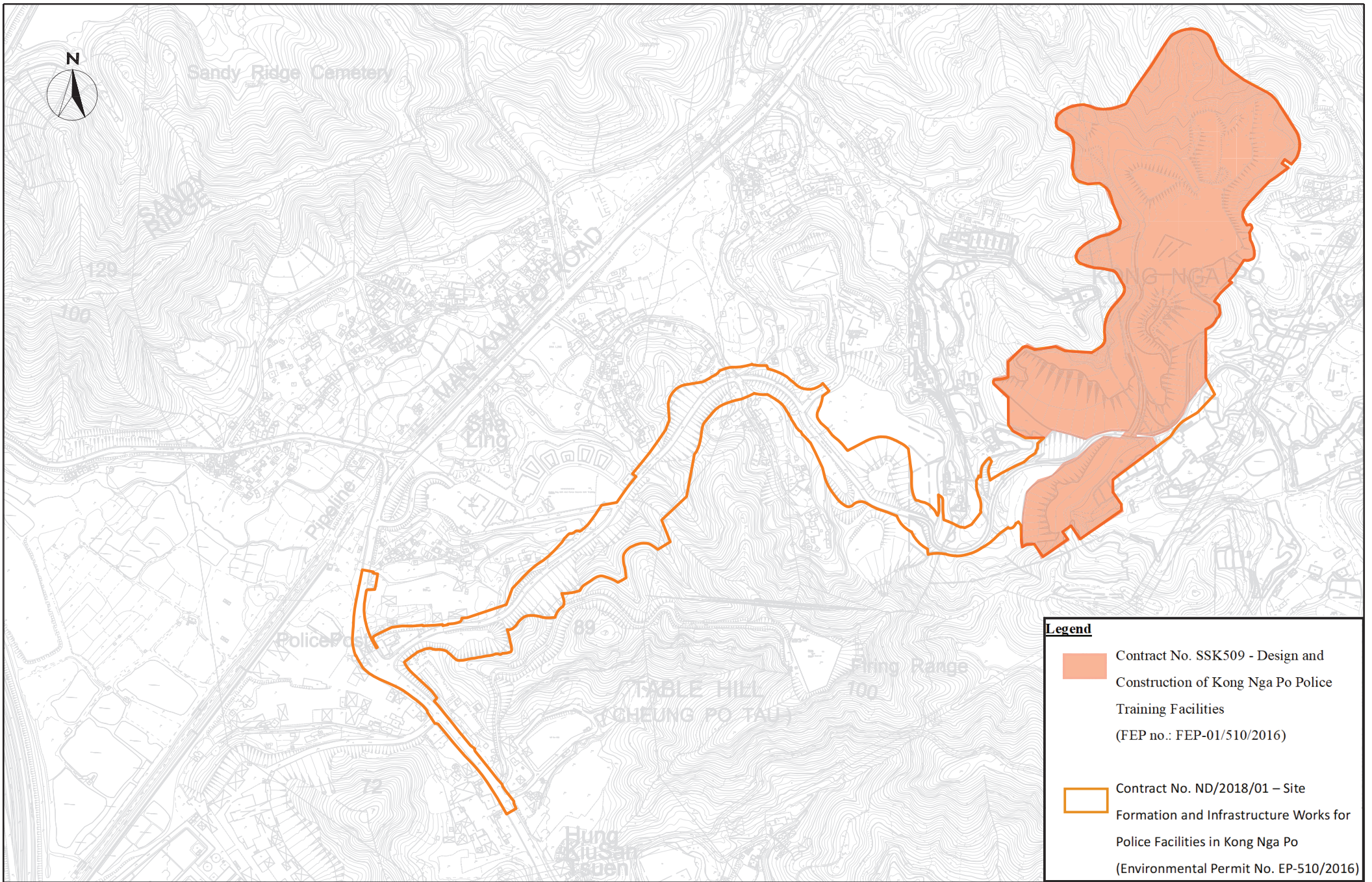
Landscape and Visual

- To erect and maintain the protection fencing and tree protection zone around the preserved trees;
- To remove the construction materials within the tree protection zone;
- To keep the tree protection zone large enough to protect the trees; and
- To avoid handling materials on the preserved trees.

Permit / Licences

- To maintain the display the valid construction noise permit on the construction site at a proper location at the boundary of the working area for public information.

FIGURE(S)



Legend

- Contract No. SSK509 - Design and Construction of Kong Nga Po Police Training Facilities (FEP no.: FEP-01/510/2016)
- Contract No. ND/2018/01 – Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po (Environmental Permit No. EP-510/2016)



Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
 Site Layout Plan

SCALE	A3 @1:40000	DATE	MAR 2023	
CHECK	IT	DRAWN	ML	
JOB No.	WMA20001	FIGURE No.	1	REV -



LEGEND

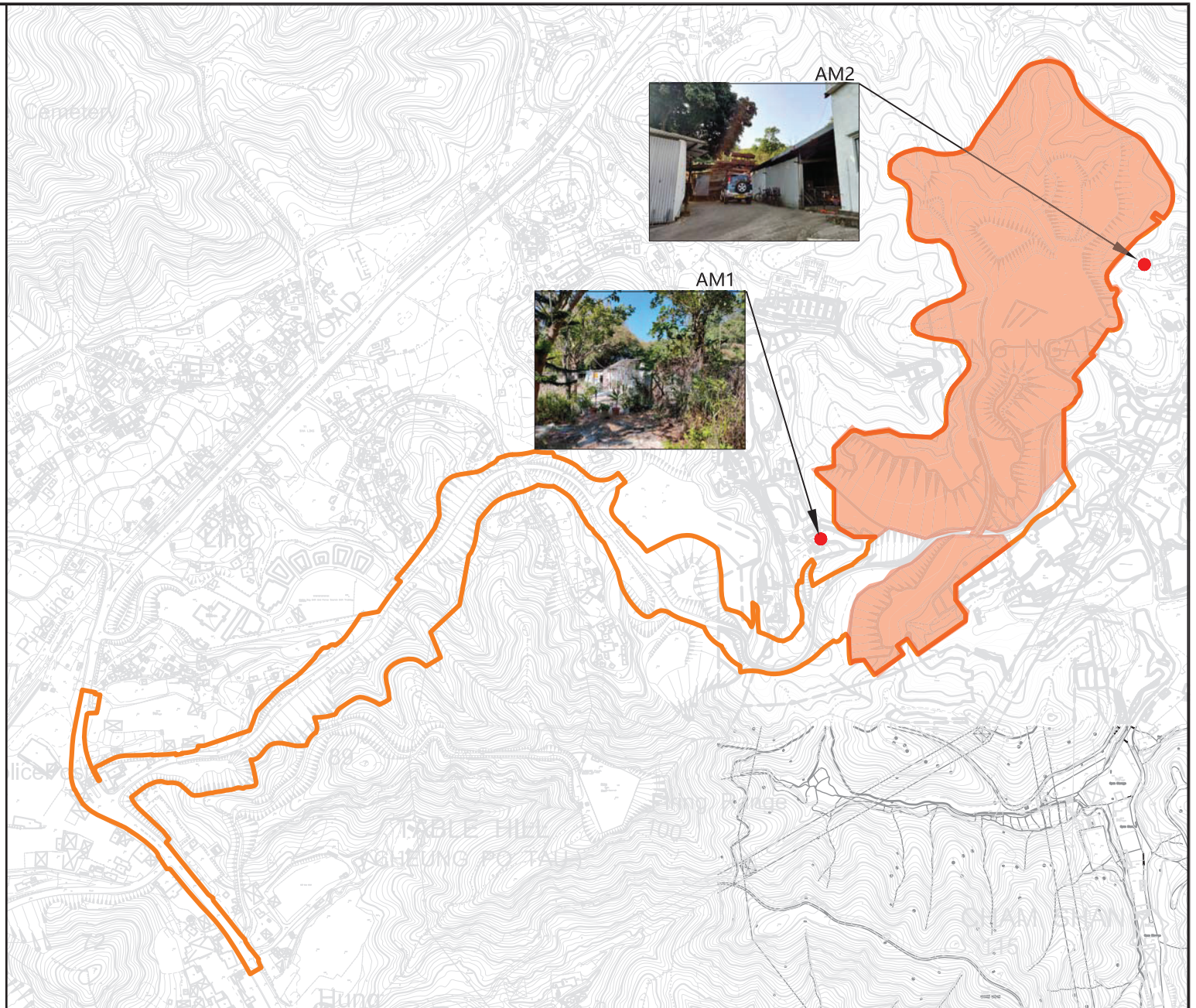
Legend

- Contract No. SSK509 - Design and Construction of Kong Nga Po Police Training Facilities (FEP no.: FEP-01/510/2016)

- Contract No. ND/2018/01 – Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po (Environmental Permit No. EP-510/2016)

- Air Quality Monitoring Stations

Air Quality Monitoring Stations	
ID	Description
AM1	Village House, Kong Nga Po
AM2	Village House, Kong Nga Po




Service Contract No. NDO 07/2019
 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po


Air Quality Monitoring Stations

SCALE	A4 @ 1:50000	DATE	MAR 2023		
CHECK	IT	DRAWN	ML		
JOB No.	WMA20001	FIGURE NO.	2	REV	—

Legend

 Contract No. SSK509 - Design and Construction of Kong Nga Po Police Training Facilities
(FEP no.: FEP-01/510/2016)

 Contract No. ND/2018/01 – Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
(Environmental Permit No. EP-510/2016)

 Noise Quality Monitoring Stations

Noise Monitoring Stations	
ID	Description
NM1	Village House, Sha Ling
NM2	Village House, Sha Ling
NM3	Village House No. 248, Sha Ling
NM4	Village House, Sha Ling
NM5	Village House No. 270, Sha Ling
NM6	Village House, Sha Ling
NM7	Village House, Sha Ling
NM8	Village House, Sha Ling
NM9	Village House, Kong Nga Po
NM10	Village House, Kong Nga Po
NM11	Village House, Kong Nga Po
NM12	Village House, Kong Nga Po
NM13	Village House, Kong Nga Po
NM14	Village House, near Man Kam To Road



Service Contract No. NDO 07/2019
 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Noise Monitoring Stations

SCALE	A4 @ 1:50000	DATE	MAR 2023	
CHECK	IT	DRAWN	ML	
JOB No.	WMA20001	FIGURE NO.	3	REV —

**APPENDIX A
CONSTRUCTION PROGRAMME AND
PROACTIVE ENVIRONMENTAL
PROTECTION PROFORMA**

**Contract No. ND/2018/01 –
Site Formation and Infrastructure Works
for Police Facilities in Kong Nga Po**

Activity ID	Activity Name	Original Duration	Actual Duration	Total Float	Start	Finish	Predecessors	Successors	2023													
									February				March				April				May	
									29	05	12	19	26	05	12	19	26	02	09	16	23	30
Monthly Update (28 Feb 2023)		1015	963	311	27-Nov-19A	04-Dec-23																
Dates		55	0	-51	28-Feb-23	08-May-23			08-May-23, Dates													
Key Dates (CD1-3)		0	0	-273	28-Feb-23	28-Feb-23			28-Feb-23, Key Dates (CD1-3)													
KD1	KD1 (915 days after Starting Date), Portion B, B1 and B2	0	0	-273		28-Feb-23*			KD1 (915 days after Starting Date), Portion B, B1 and B2													
KD2	KD2 (915 days after Starting Date), Portion A, A1, B, B1 and B2	0	0	-273		28-Feb-23*			KD2 (915 days after Starting Date), Portion A, A1, B, B1 and B2													
Section Completion (WI-10.1 & CD1-X5)		0	0	-32	28-Feb-23	28-Feb-23			28-Feb-23, Section Completion (WI-10.1 & CD1-X5)													
S1	Completion of Section 1 (1156 days after Starting Date), Works in Portion A, A1, B, B1, B2	0	0	-32		28-Feb-23*			Completion of Section 1 (1156 days after Starting Date), Works in Portion A, A1, B, B1, B2													
S2	Completion of Section 2 (1156 days after Starting Date), Works in Portion C and C1	0	0	-32		28-Feb-23*			Completion of Section 2 (1156 days after Starting Date), Works in Portion C and C1													
S3	Completion of Section 3 (730 days after Starting Date), Works in Portion D and D1 (26 Nov 2021)	0	0	-458		28-Feb-23*			Completion of Section 3 (730 days after Starting Date), Works in Portion D and D1 (26 Nov 2021)													
S4	Completion of Section 4 (1156 days after Starting Date), Remaining Works	0	0	-32		28-Feb-23*	S5		Completion of Section 4 (1156 days after Starting Date), Remaining Works													
Revised Completion Date		4	0	0	28-Feb-23	03-Mar-23			03-Mar-23, Revised Completion Date													
RC.KD1	Revised Completion of Key Date KD1	0	0	-236		28-Feb-23*	PC.KD1		Revised Completion of Key Date KD1													
RC.KD2	Revised Completion of Key Date KD2	0	0	-236		28-Feb-23*	PC.KD2		Revised Completion of Key Date KD2													
RC.S2	Revised Completion of Section 2	0	0	-5		28-Feb-23*			Revised Completion of Section 2													
RC.S3	Revised Completion of Section 3 (22 Dec 2021)	0	0	-432		28-Feb-23*	PC.S3, PWC-1050		Revised Completion of Section 3 (22 Dec 2021)													
RC.S1	Revised Completion of Section 1	0	0	0		03-Mar-23*	PC.S1		Revised Completion of Section 1													
RC.S4	Revised Completion of Section 4	0	0	0		03-Mar-23*	PC.S2, PC.S4	RC.S5	Revised Completion of Section 4													
Planned Completion		25	0	-306	13-Apr-23	08-May-23			08-May-23, Planned Completion													
PC.S3	Planned Completion of Section 3	0	0	-477		13-Apr-23	S3.KE-1500	RC.S3, S4-1000	Planned Completion of Section 3													
PC.KD1	Planned Completion of KD1	0	0	-306		08-May-23	KD.KE-1200	RC.KD1	Planned Completion of KD1													
PC.KD2	Planned Completion of KD2	0	0	-306		08-May-23	KD.KE-1200	RC.KD2	Planned Completion of KD2													
Contract Submission		90	759	636	30-Jan-21 A	08-Mar-23			08-Mar-23, Contract Submission													
General Submission		90	759	636	30-Jan-21 A	08-Mar-23			08-Mar-23, General Submission													
GS-1750	Design of Road Lighting System [PS-31.1]	90	759	636	30-Jan-21 A	08-Mar-23	S3.GS-1700		Design of Road Lighting System [PS-31.1]													
Works in KD1 and KD2 (Portion A, A1, B, B1, & B2)		932	892	402	25-Feb-20 A	16-Aug-23																
Key Event		68	0	-306	01-Mar-23	08-May-23			08-May-23, Key Event													
KD.KE-1450	Completion of Sewerage at Man Kam To Road	0	0	-238		01-Mar-23	KD.A.RD-1950.60, KD.A.RD-1950.70	KD.KE-1200	Completion of Sewerage at Man Kam To Road													
KD.KE-1050	Completion of Retaining Walls	0	0	-239		02-Mar-23	KD.B.RD-0000, KD.DS-1150, KD.MS-1150, KD.PW-1850, KD.SDR.FD-1050, KD.SDR.FT-1400, KD.B.GI-1550, KD.SDR.FD-1000, KD.B.RD.R-1350, KD.GM-1200, KD.B.RD.R-1050.10E, KD.B.RD.R-1050.42C	KD.KE-1200	Completion of Retaining Walls													
KD.KE-1400	Completion of Drainage at Man Kam To Road	0	0	-272		04-Apr-23	KD.A.RD-1750.240, KD.A.RD-1770.170	KD.KE-1200	Completion of Drainage at Man Kam To Road													
KD.KE-1350	Completion of Watermains at Man Kam To Road	0	0	-285		17-Apr-23	KD.A.RD-2450, KD.A.RD-2950	KD.KE-1200	Completion of Watermains at Man Kam To Road													
KD.KE-1100	Completion of Sewerage Trenchless Works	0	0	-304		06-May-23	KD.B.TR-1200, KD.B.TR-1100, KD.B.RD.R-1600.25	KD.KE-1200	Completion of Sewerage Trenchless Works													

■ Remaining Level of Effort
 ■ Remaining Work
 ◆ Milestone
 — Actual Work
 ■ Critical Remaining Work
 → Summary

Three Months Rolling Programme (Mar - May 2023)



Activity ID	Activity Name	Original Duration	Actual Duration	Total Float	Start	Finish	Predecessors	Successors	2023														
									February				March				April						
									29	05	12	19	26	05	12	19	26	02	09	16	23	30	07
KD.KE-1200	Completion of Works in KD1 and KD2	0	0	-306		08-May-23	KD.KE-1450, KD.KE-1100, KD.KE-1050, KD.KE-1350, KD.KE-1400, KD.KE-1150	PC.KD1, PC.KD2															Completion of Works in KD1 and KD2
KD.KE-1150	Completion of Road and Drain at Kong Nga Po Road	0	0	-306		08-May-23	KD.B.RD.V-1000, KD.B.RD.V-1150, KD.B.RD.V-1100, KD.B.RD.V-1480, KD.B.RD.V-1400, KD.B.RD.R-1150.20, KD.B.RD.R-1900.25, KD.B.RD.R-2000, KD.B.RD.R-2150.75, KD.B.RD.R-2100.75, KD.B.RD.R-1500.75, KD.B.RD.R-1350.20, KD.B.RD.R-1800.40, KD.B.RD.R-2250.35, KD.A.RD-1750.440, KD.B.RD.V-1460, KD.B.RD.V-1470, KD.B.RD.V-1490, KD.B.RD.V-1500, KD.B.RD.R-2100.85, KD.B.RD.R-2100.95, KD.B.RD.R-1650.20, KD.B.RD.R-1350.30, KD.B.RD.R-1350.40	KD.KE-1200															Completion of Road and Drain at Kong N
Submissions and Approvals		30	892	-231	25-Feb-20A	01-Mar-23			01-Mar-23, Submissions and Approvals														
Acceptance of Subcontractors and Suppliers		30	892	-231	25-Feb-20A	01-Mar-23			01-Mar-23, Acceptance of Subcontractors and Suppliers														
KD.AS-1700	Interface between CV/2017/02 and ND/2018/01	30	892	-231	25-Feb-20A	01-Mar-23		KD.AS-1600	Interface between CV/2017/02 and ND/2018/01														
Preliminary Works		50	794	-248	26-Jun-20A	02-Mar-23			02-Mar-23, Preliminary Works														
KD.PW-1150	Site Clearance	50	794	-248	26-Jun-20A	02-Mar-23	CS-1650, AS-1100	KD.B.RD-0000	Site Clearance														
KD.B.RD-1100	Tree Felling Works	7	794	-247	26-Jun-20A	01-Mar-23	KD.B.RD-1050	KD.B.RD-0000	Tree Felling Works														
Portion A and A1		38	0	502	28-Feb-23	17-Apr-23			17-Apr-23, Portion A and A1														
Road, Drain and Utilities Works		38	0	502	28-Feb-23	17-Apr-23			17-Apr-23, Road, Drain and Utilities Works														
Watermains by Trenchless Method		36	0	-231	02-Mar-23	17-Apr-23			17-Apr-23, Watermains by Trenchless Method														
Watermains by Open Cut Method		36	0	-231	02-Mar-23	17-Apr-23			17-Apr-23, Watermains by Open Cut Method														
KD.A.RD-2850	Hydrostatic Test for 400mm Watermains	14	0	-231	02-Mar-23	17-Mar-23	KD.A.RD-3000	KD.A.RD-2900, KD.A.RD-2950	Hydrostatic Test for 400mm Watermains														
KD.A.RD-2950	Sterilization and Connection to DN400 Gate Valve Provided by CV/2017/02	22	0	-231	18-Mar-23	17-Apr-23	KD.A.RD-2900, KD.A.RD-1600, KD.A.RD-1550, KD.A.RD-2850	KD.A.RD-2450, KD.KE-1350	Sterilization and Connection to DN400 Gate Valve Provided by CV/2017/02														
Drainage by Trenchless Method		29	0	-224	02-Mar-23	04-Apr-23			04-Apr-23, Drainage by Trenchless Method														
Receiving Pit Construction and Modification		29	0	-224	02-Mar-23	04-Apr-23			04-Apr-23, Receiving Pit Construction and Modification														
KD.A.RD-1770.110	Manhole S2214 Construction	11	0	-221	02-Mar-23	14-Mar-23	KD.A.RD-1770.90	KD.A.RD-1770.160	Manhole S2214 Construction														
KD.A.RD-1770.120	Manhole S2215 and Outfall Construction	14	0	-224	02-Mar-23	17-Mar-23	KD.A.RD-1770.90	KD.A.RD-1770.160	Manhole S2215 and Outfall Construction														
KD.A.RD-1770.160	Reinstate the planter	14	0	-224	18-Mar-23	03-Apr-23	KD.A.RD-1770.110, KD.A.RD-1770.120	KD.A.RD-1770.170	Reinstate the planter														
KD.A.RD-1770.170	Lane shift	1	0	-224	04-Apr-23	04-Apr-23	KD.A.RD-1770.160	KD.KE-1400	Lane shift														
Sewerage		25	0	515	28-Feb-23	28-Mar-23			28-Mar-23, Sewerage														
KD.A.RD-1950.150	[PMI281]KNP135A to KNP136A	25	0	515	28-Feb-23	28-Mar-23			[PMI281]KNP135A to KNP136A														
Portion B, B1 and B2		530	408	402	12-Oct-21A	16-Aug-23																	
Sewerage Trenchless Works		201	239	-238	12-May-22A	25-Apr-23			25-Apr-23, Sewerage Trenchless Works														

■ Remaining Level of Effort ■ Remaining Work ◆ Milestone
■ Actual Work ■ Critical Remaining Work → Summary



Activity ID	Activity Name	Original Duration	Actual Duration	Total Float	Start	Finish	Predecessors	Successors	2023																			
									February					March					April					May				
									29	05	12	19	26	05	12	19	26	02	09	16	23	30	07	14	21			
Trenchless Construction of Twins ND280 Sewer		176	239	-231	12-May-22A	22-Mar-23			22-Mar-23, Trenchless Construction of Twins ND280 Sewer																			
KNP125 to KNP126		176	239	-231	12-May-22A	22-Mar-23			22-Mar-23, KNP125 to KNP126																			
KD.B.TR-1080.10	Pipe Jacking KNP125 to KNP126	20	239	-231	12-May-22A	11-Mar-23	KD.B.RD.R-1500.10	KD.B.RD.R-1500.20, KD.B.TR-1080.20	Pipe Jacking KNP125 to KNP126																			
KD.B.TR-1080.20	Annular Grout and Guide Rail Installation	3	0	-231	13-Mar-23	15-Mar-23	KD.B.TR-1080.10	KD.B.TR-1080.60	Annular Grout and Guide Rail Installation																			
KD.B.TR-1080.60	Sewer Installation (KNP125 - KNP126)	6	0	-231	16-Mar-23	22-Mar-23	KD.B.TR-1080.20	KD.B.TR-1200	Sewer Installation (KNP125 - KNP126)																			
Manholes Construction		125	142	-238	05-Sep-22A	25-Apr-23			25-Apr-23, Manholes Construction																			
KD.B.TR-1200	Manhole Construction (FMH-KNP125 & KNP126)	12	142	-231	05-Sep-22A	06-Apr-23	KD.B.TR-1080.60, KD.B.TR-1050.10	KD.KE-1100, S1.B.LD-1350, KD.B.RD.R-1600.25	Manhole Construction (FMH-KNP125 & KNP126)																			
KD.B.TR-1100	Manhole Construction (FMH-KNP122)	45	0	-238	28-Feb-23	25-Apr-23	KD.B.TR-1050.10, KD.B.TR-1050.40, KD.B.RD.R-1850.45	KD.KE-1100, S1.B.LD-1350	Manhole Construction (FMH-KNP122)																			
Road, Drain and Utilities Works		530	408	402	12-Oct-21A	16-Aug-23																						
Works at Existing Kong Nga Po Road (TTA Required)		530	408	402	12-Oct-21A	16-Aug-23																						
CH0+000 - CH0+320		447	408	-248	12-Oct-21A	08-May-23			08-May-23, CH0+000 - CH0+320																			
at Verge		443	408	-244	12-Oct-21A	03-May-23			03-May-23, at Verge																			
KD.B.RD.V-1150	CH0+000 - CH0+040 Drainage, Sewerage and Waterworks	48	408	-244	12-Oct-21A	02-Mar-23		KD.KE-1150, KD.B.RD.V-1460, KD.B.RD.V-1400	CH0+000 - CH0+040 Drainage, Sewerage and Waterworks																			
KD.B.RD.V-1400	CH0+000 - CH0+120 Utilities and Road Works	20	228	-244	25-May-22A	14-Mar-23	KD.B.RD.V-1150	KD.KE-1150, KD.B.RD.V-1460	CH0+000 - CH0+120 Utilities and Road Works																			
KD.B.RD.V-1480	CH0+120 - CH0+175 Waterworks and Road Works	20	0	-238	03-Mar-23	25-Mar-23	S1.B.SL-1000	KD.KE-1150, KD.B.RD.V-1490	CH0+120 - CH0+175 Waterworks and Road Works																			
KD.B.RD.V-1460	1st Lane shift for Road works	1	0	-244	15-Mar-23	15-Mar-23	KD.B.RD.V-1150, KD.B.RD.V-1400	KD.KE-1150, KD.B.RD.V-1470	1st Lane shift for Road works																			
KD.B.RD.V-1470	CH0+050 - CH0+120 EB Utilities and Road Works	15	0	-244	16-Mar-23	01-Apr-23	KD.B.RD.V-1460	KD.KE-1150, KD.B.RD.V-1490	CH0+050 - CH0+120 EB Utilities and Road Works																			
KD.B.RD.V-1490	2nd Lane shift for Road works	15	0	-244	03-Apr-23	24-Apr-23	KD.B.RD.V-1470, KD.B.RD.V-1480	KD.KE-1150, KD.B.RD.V-1500	2nd Lane shift for Road works																			
KD.B.RD.V-1500	CH0+120 - CH0+130 EB Waterworks and Road Works	7	0	-244	25-Apr-23	03-May-23	KD.B.RD.V-1490	KD.KE-1150	CH0+120 - CH0+130 EB Waterworks and Road Works																			
TTA Required		144	125	-248	26-Sep-22A	08-May-23			08-May-23, TTA Required																			
KD.B.RD.R-2050	CH0+130 - CH0+190 Utilities and Road Works	36	125	-248	26-Sep-22A	25-Mar-23	KD.B.RD.R-2100, KD.B.RD.R-1750.25, KD.B.RD.R-2160	KD.B.RD.R-2000	CH0+130 - CH0+190 Utilities and Road Works																			
KD.B.RD.R-2000	CH0+080 - CH0+130 Utilities and Road Works	35	0	-248	23-Mar-23	08-May-23	KD.B.RD.R-2050	KD.KE-1150	CH0+080 - CH0+130 Utilities and Road Works																			
Road and Drain CH190 - CH250		105	92	-227	05-Nov-22A	12-Apr-23			12-Apr-23, Road and Drain CH190 - CH250																			
KD.B.RD.R-2100.10	Drainage S2205 to S2207 Construction	12	92	-242	05-Nov-22A	28-Feb-23	KD.B.RD.R-2100.05	KD.B.RD.R-2100.65	Drainage S2205 to S2207 Construction																			
KD.B.RD.R-2100.15	Sewerage Manholes KNP 128 to KNP 130 Construction	12	92	-242	05-Nov-22A	28-Feb-23	KD.B.RD.R-2100.05	KD.B.RD.R-2100.65	Sewerage Manholes KNP 128 to KNP 130 Construction																			
KD.B.RD.R-2100.65	Backfilling with Coarse Materials	6	0	-242	28-Feb-23	06-Mar-23	KD.B.RD.R-2100.15, KD.B.RD.R-2100.10	KD.B.RD.R-2100.20, KD.B.RD.R-2150.60	Backfilling with Coarse Materials																			
KD.B.RD.R-2100.20	Watermains Construction	6	0	-227	07-Mar-23	13-Mar-23	KD.B.RD.R-2100.6	KD.B.RD.R-2100.2	Watermains Construction																			
KD.B.RD.R-2100.25	Backfilling with Coarse Materials	3	0	-227	14-Mar-23	16-Mar-23	KD.B.RD.R-2100.20	KD.B.RD.R-2100.75	Backfilling with Coarse Materials																			
KD.B.RD.R-2100.75	Road Works (CH175 - 280 WB)	6	0	-227	17-Mar-23	23-Mar-23	KD.B.RD.R-2100.25	KD.KE-1150, KD.B.RD.R-2100.85	Road Works (CH175 - 280 WB)																			
KD.B.RD.R-2100.85	3rd Lane shift for Road works	1	0	-227	24-Mar-23	24-Mar-23	KD.B.RD.R-2100.75	KD.KE-1150, KD.B.RD.R-2100.95	3rd Lane shift for Road works																			
KD.B.RD.R-2100.95	Road Works (CH120 - 280 EB)	12	0	-227	25-Mar-23	12-Apr-23	KD.B.RD.R-2100.85	KD.KE-1150	Road Works (CH120 - 280 EB)																			
Road and Drain CH250 - CH320		43	0	-242	07-Mar-23	29-Apr-23			29-Apr-23, Road and Drain CH250 - CH320																			

█ Remaining Level of Effort
 █ Remaining Work
 ◆ Milestone
 █ Critical Remaining Work
 ▶ Summary
 █ Actual Work



Activity ID	Activity Name	Original Duration	Actual Duration	Total Float	Start	Finish	Predecessors	Successors	2023																	
									February				March				April				May					
									29	05	12	19	26	05	12	19	26	02	09	16	23	30	07	14	21	
CH0+600 - CH0+900									08-May-23, CH0+600 - CH0+900																	
Road and Drain CH580 - CH740L									03-Apr-23, Road and Drain CH580 - CH740L																	
KD.B.RD.R-1150.15	Utilities Laying and Backfilling	30	91	-210	07-Nov-22A	07-Mar-23	S1.B.SL.C38-1700	KD.B.RD.R-1150.20	Utilities Laying and Backfilling																	
KD.B.RD.R-1150.20	Road Works	30	0	-223	28-Feb-23	03-Apr-23	KD.B.RD.R-1150.15	KD.KE-1150	Road Works																	
Road and Drain CH580 - CH740R									06-Mar-23, Road and Drain CH580 - CH740R																	
KD.B.RD.R-1850.75	Road Pavement, Open New Road and 1st diversion to new store house	14	91	-248	07-Nov-22A	06-Mar-23	S1.B.SL.C38-1700	KD.B.RD.R-1900.25	Road Pavement, Open New Road and 1st diversion to new store house																	
Road and Drain CH700 - CH750R									06-Mar-23, Road and Drain CH700 - CH750R																	
KD.B.RD.R-1950.35	Backfilling with Coarse Materials	3	121	-248	30-Sep-22A	06-Mar-23	KD.B.RD.R-1950.30	KD.B.RD.R-1950.40	Backfilling with Coarse Materials																	
Road and Drain CH750 - CH780L									18-Mar-23, Road and Drain CH750 - CH780L																	
KD.B.RD.R-1900.20	Utilities Laying and Backfilling	12	77	-248	23-Nov-22A	06-Mar-23	KD.B.RD.R-1900.15	KD.B.RD.R-1900.25	Utilities Laying and Backfilling																	
KD.B.RD.R-1900.25	Road Works	10	0	-248	07-Mar-23	17-Mar-23	KD.B.RD.R-1900.20, KD.B.RD.R-1850.75	KD.KE-1150, KD.B.RD.R-1900.75	Road Works																	
KD.B.RD.R-1900.75	2nd diversion to new store house	1	0	-248	18-Mar-23	18-Mar-23	KD.B.RD.R-1900.25	KD.B.RD.R-1900.55	2nd diversion to new store house																	
Road and Drain CH780 - CH800L									30-Mar-23, Road and Drain CH780 - CH800L																	
KD.B.RD.R-1900.55	Utilities Laying and Backfilling	10	0	-248	20-Mar-23	30-Mar-23	KD.B.RD.R-1900.75	KD.B.RD.R-1900.65	Utilities Laying and Backfilling																	
KD.B.RD.R-1900.65	Road Works	6	0	-248	20-Mar-23	25-Mar-23	KD.B.RD.R-1900.5	KD.B.RD.R-1900.8	Road Works																	
KD.B.RD.R-1900.85	3rd diversion to new store house	1	0	-248	27-Mar-23	27-Mar-23	KD.B.RD.R-1900.65	KD.B.RD.R-1800.40, KD.B.RD.R-1550.35	3rd diversion to new store house																	
Road and Drain CH750 - CH780R									14-Apr-23, Road and Drain CH750 - CH780R																	
KD.B.RD.R-1800.30	Watermains Construction	12	0	-220	28-Feb-23	13-Mar-23	KD.B.RD.R-1800.2	KD.B.RD.R-1800.3	Watermains Construction																	
KD.B.RD.R-1800.35	Backfilling with Coarse Materials	3	0	-220	14-Mar-23	16-Mar-23	KD.B.RD.R-1800.30	KD.B.RD.R-1800.40	Backfilling with Coarse Materials																	
KD.B.RD.R-1800.40	Road Works after 3rd diversion to new store house	12	0	-229	28-Mar-23	14-Apr-23	KD.B.RD.R-1800.35, KD.B.RD.R-1900.85	KD.KE-1150	Road Works after 3rd diversion to new store house																	
Road and Drain CH840 - CH890L									12-Apr-23, Road and Drain CH840 - CH890L																	
KD.B.RD.R-1550.35	Close lane	1	0	-248	27-Mar-23	27-Mar-23	KD.B.RD.R-1550.30, KD.B.RD.R-1900.85	KD.B.RD.R-1550.45	Close lane																	
KD.B.RD.R-1550.45	Road Works	10	0	-248	28-Mar-23	12-Apr-23	KD.B.RD.R-1550.3	KD.B.RD.R-1550.5	Road Works																	
KD.B.RD.R-1550.55	Open New Road	1	0	-248	12-Apr-23	12-Apr-23	KD.B.RD.R-1550.4	KD.B.RD.R-2200.3	Open New Road																	
Road and Drain CH890 - CH920L (OPII)									08-May-23, Road and Drain CH890 - CH920L																	
KD.B.RD.R-2250.30	Utilities Laying and Backfilling after lane shift	30	80	-248	19-Nov-22A	03-Apr-23	KD.B.RD.R-2250.20	KD.B.RD.R-2250.35	Utilities Laying and Backfilling after lane shift																	
KD.B.RD.R-2250.35	Road Works	25	0	-248	04-Apr-23	08-May-23	KD.B.RD.R-2250.3	KD.KE-1150	Road Works																	
Road and Drain CH780 - CH920R									08-May-23, Road and Drain CH780 - CH920R																	
KD.B.RD.R-2200.20	Drainage S1807 to S1809	9	0	-235	28-Feb-23	09-Mar-23	KD.B.RD.R-2200.1	KD.B.RD.R-2200.4	Drainage S1807 to S1809																	
KD.B.RD.R-2200.14	Pipe Jacking S1809 to S1811	18	0	-248	28-Feb-23	20-Mar-23	KD.B.RD.R-2200.1	KD.B.RD.R-2200.1	Pipe Jacking S1809 to S1811																	
KD.B.RD.R-2200.16	Drainage S1809 to S1811	9	0	-248	15-Mar-23	24-Mar-23	KD.B.RD.R-2200.1	KD.B.RD.R-2200.4	Drainage S1809 to S1811																	
KD.B.RD.R-2200.40	Backfilling with Coarse Materials	6	0	-248	22-Mar-23	28-Mar-23	KD.B.RD.R-2200.20, KD.B.RD.R-2200.16	KD.B.RD.R-2200.25	Backfilling with Coarse Materials																	
KD.B.RD.R-2200.25	Watermains Construction	10	0	-248	23-Mar-23	03-Apr-23	KD.B.RD.R-2200.4	KD.B.RD.R-2200.3	Watermains Construction																	
KD.B.RD.R-2200.30	Backfill with Coarse Materials	6	0	-248	31-Mar-23	11-Apr-23	KD.B.RD.R-2200.2	KD.B.RD.R-2200.3	Backfill with Coarse Materials																	
KD.B.RD.R-2200.35	Close Lane	1	0	-248	12-Apr-23	12-Apr-23	KD.B.RD.R-2200.30, KD.B.RD.R-1550.55	KD.B.RD.R-2200.50	Close Lane																	
KD.B.RD.R-2200.50	Fill slope F16	11	0	-248	13-Apr-23	25-Apr-23	KD.B.RD.R-2200.3	KD.B.RD.R-2200.6	Fill slope F16																	
KD.B.RD.R-2200.60	Road Works	10	0	-248	26-Apr-23	08-May-23	KD.B.RD.R-2200.5	KD.KE-1150	Road Works																	
Section 1 (Portions A, A1, B, B1 and B2)									20-Sep-23																	

█ Remaining Level of Effort
 █ Remaining Work
 ◆ Milestone
█ Actual Work
 █ Critical Remaining Work
 → Summary



Activity ID	Activity Name	Original Duration	Actual Duration	Total Float	Start	Finish	Predecessors	Successors	2023														
									February				March				April				May		
									29	05	12	19	26	05	12	19	26	02	09	16	23	30	07
Portion B, B1 and B2		594	506	-164	16-Jun-21 A	20-Sep-23																	
Site Formation and Slope Works		594	506	-164	16-Jun-21 A	20-Sep-23																	
S1.B.SL-1100	Fill Slope near 3NW-C/F21	152	91	-166	07-Nov-22 A	12-Aug-23	KD.SDR.FT-1450, KD.B.GI-1550, KD.DS-1150, KD.MS-1150, KD.SDR.FD-1000, KD.B.RD.R-1350, KD.GM-1200, KD.B.RD.R-1750.25	S1.KE-1300, S1.BLD-1200															
S1.B.SL-1150	Slope Upgrading Works for Feature 3NW-C/F17	120	0	-147	28-Feb-23	26-Jul-23	KD.B.RD.R-1050.10E	S1.KE-1300, S1.BLD-1450															
S1.B.SL-1060	Surface Drain near Feature 3NW-C/C79	12	0	-8	28-Feb-23	13-Mar-23	KD.B.RD.R-1350.10	S1.KE-1300	Surface Drain near Feature 3NW-C/C79														
S1.B.SL-1110	Surface Drain near Feature 3NW-C/C47	12	0	-20	14-Mar-23	27-Mar-23	KD.B.RD.R-2150.65	S1.KE-1300	Surface Drain near Feature 3NW-C/C47														
3NW-C/C8		77	506	-31	16-Jun-21 A	13-Apr-23			13-Apr-23, 3NW-C/C8														
S1.B.SL.C8-2150	Landscape Treatment on Slope	72	506	-31	16-Jun-21 A	13-Apr-23	S1.B.SL.C8-2200	S1.KE-1300	Landscape Treatment on Slope														
S1.B.SL.C8-2200	U-Channel and Catchpit Construction	67	409	-31	11-Oct-21 A	23-Mar-23	S1.B.SL.C8-1950	S1.KE-1300, S1.B.SL.C8-2150	U-Channel and Catchpit Construction														
3NW-C/C67		69	168	-65	05-Aug-22 A	24-May-23			24-M														
S1.B.SL.C67-1750	U-Channel, Catchpit and Maintenance Access Construction	69	168	-65	05-Aug-22 A	24-May-23	S1.B.SL.C67-1650	S1.KE-1300, S1.B.SL.C67-1850	U-Ch														
S1.B.SL.C67-1850	Landscape Treatment on Slope	69	163	-65	11-Aug-22 A	24-May-23	S1.B.SL.C67-1750	S1.KE-1300	Land														
3NW-C/C43		201	92	-146	05-Nov-22 A	30-Aug-23																	
S1.B.SL.C43-1200	[PM1511] Row D Soil Nail (101 nos. D1 to D101)	20	92	-151	05-Nov-22 A	22-Mar-23	S1.B.SL.C43-1150, PM432	S1.B.SL.C43-1250	[PM1511] Row D Soil Nail (101 nos. D1 to D101)														
S1.B.SL.C43-1400	U-Channel, Catchpit and Maintenance Access Construction (Portion I & II)	150	0	-146	28-Feb-23	30-Aug-23	S1.B.SL.C43-1050, S1.B.SL.C43-1740	S1.KE-1300, S1.B.SL.C43-1550															
S1.B.SL.C43-1450	U-Channel, Catchpit and Maintenance Access Construction (Portion III & IV)	83	0	-131	28-Feb-23	10-Jun-23	S1.B.SL.C43-1050	S1.KE-1300, S1.B.SL.C43-1500															
S1.B.SL.C43-1500	Landscape Treatment on Slope (Portion I & II)	135	0	-131	28-Feb-23	12-Aug-23	S1.B.SL.C43-1450	S1.KE-1300															
S1.B.SL.C43-1550	Landscape Treatment on Slope (Portion III & IV)	135	0	-131	28-Feb-23	12-Aug-23	S1.B.SL.C43-1400	S1.KE-1300															
S1.B.SL.C43-1250	[PM1511] Row C Soil Nails (115 nos. C1 to C115)	22	0	-151	23-Mar-23	21-Apr-23	S1.B.SL.C43-1200	S1.B.SL.C43-1300	[PM1511] Row C Soil Nails (115 nos. C1 to C115)														
S1.B.SL.C43-1300	Row B Soil Nails (149 nos. B1 to B149)	28	0	-151	22-Apr-23	25-May-23	S1.B.SL.C43-1250	S1.B.SL.C43-1350	Ro														
S1.B.SL.C43-1350	Row A Soil Nails (156 nos. A1 to A156)	28	0	-151	27-May-23	29-Jun-23	S1.B.SL.C43-1300	S1.KE-1300, S1.BLD-1050, S1.B.SL.C43-1210															
3NW-C/C37		92	153	-88	23-Aug-22 A	21-Jun-23																	
S1.B.SL.C37-1750	Landscape Treatment on Slope	92	153	-88	23-Aug-22 A	21-Jun-23	S1.B.SL.C37-1700	S1.KE-1300															
3NW-C/C38		265	103	-164	24-Oct-22 A	20-Sep-23																	
S1.B.SL.C38-1350	Test Nail (TN3 & TN6)	14	103	-167	24-Oct-22 A	09-Mar-23	S1.B.SL.C38-1250, S1.B.SL.C37-1650	S1.B.SL.C38-1400	Test Nail (TN3 & TN6)														
S1.B.SL.C38-1850	U-Channel, Catchpit and Maintenance Access Construction	168	0	-164	28-Feb-23	20-Sep-23	S1.B.SL.C38-1800	S1.KE-1300, S1.B.SL.C38-1900															
S1.B.SL.C38-1900	Landscape Treatment on Slope	145	0	-141	28-Feb-23	24-Aug-23	S1.B.SL.C38-1850	S1.KE-1300															
S1.B.SL.C38-1400	Row C Soil Nails (61 nos. C1 to C61)	16	0	-167	10-Mar-23	28-Mar-23	S1.B.SL.C38-1350	S1.B.SL.C38-1600	Row C Soil Nails (61 nos. C1 to C61)														
S1.B.SL.C38-1600	Test Nails (TN2 & TN5)	16	0	-167	29-Mar-23	20-Apr-23	S1.B.SL.C38-1400, S1.B.SL.C38-1700	S1.B.SL.C38-1650	Test Nails (TN2 & TN5)														
S1.B.SL.C38-1650	Row B Soil Nails (68 nos. B1 to B68)	34	0	-167	21-Apr-23	01-Jun-23	S1.B.SL.C38-1600	S1.B.SL.C38-1750															
Section 2 (Portions C and C1)		492	335	-175	10-Jan-22 A	05-Oct-23																	
Key Event		0	0	0	03-Mar-23	03-Mar-23			03-Mar-23, Key Event														

■ Remaining Level of Effort
 ■ Remaining Work
 ◆ Milestone
■ Actual Work
 ■ Critical Remaining Work
 → Summary



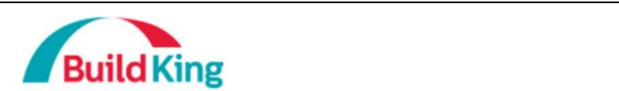
Activity ID	Activity Name	Original Duration	Actual Duration	Total Float	Start	Finish	Predecessors	Successors	2023																
									February				March				April				May				
									29	05	12	19	26	05	12	19	26	02	09	16	23	30	07	14	21
S2.KE-1000	Completion of Drainage Trenchless Works	0	0	0		03-Mar-23	S2.C.TD-1250, S2.C.TD-1300	S2.KE-1300																	
Ground Investigation Field Works		24	0	-110	28-Feb-23	27-Mar-23																			
S2.C.GI-1800	Inspection Pits for Foundation of RW RD-D	24	0	-110	28-Feb-23	27-Mar-23	S2.C.GI-1300	S2.SDR.FD-1100																	
Road, Drain and Utilities Works		270	209	-194	17-Jun-22A	10-Aug-23																			
Works at Existing Verge		270	209	-194	17-Jun-22A	10-Aug-23																			
CH0+920 - CH1+010 (OPII to Feature A)		133	0	-194	28-Feb-23	10-Aug-23																			
S2.C.RD.V-1126	Sewerage drainKNP110A-110	6	0	-188	28-Feb-23	06-Mar-23	S2.C.RD.V-1125	S2.C.RD.V-1130																	
S2.C.RD.V-1127	Storm drainS1805-1806	12	0	-194	28-Feb-23	13-Mar-23	KD.B.RD.R-2250.1	S2.C.RD.V-1130																	
S2.C.RD.V-1130	Site Clearance for Slope backfill	6	0	-194	14-Mar-23	20-Mar-23	S2.C.RD.V-1126, S2.C.RD.V-1127	S2.C.RD.V-1140																	
S2.C.RD.V-1140	Slope Backfill	115	0	-194	21-Mar-23	10-Aug-23	S2.C.RD.V-1130	S2.C.RD.V-1150																	
CH1+010 - CH1+140 (near Feature A)		186	209	-209	17-Jun-22A	29-Apr-23																			
S2.C.RD.V-1114	Manhole construction(KNP108A-106, S1703-1705)	28	209	-209	17-Jun-22A	29-Apr-23	S2.C.RD.V-1112	S2.C.RD.V-1120																	
S2.C.RD.V-1110	Drainage S1702 - S1703, Utilities and Road Works	20	146	-172	31-Aug-22A	13-Mar-23	S2.C.RD.V-1080	S2.C.RD.V-1120																	
S2.C.RD.V-1100	Drainage S1801 - S1802 - S1803, Utilities and Road Works	30	125	-185	26-Sep-22A	28-Mar-23	S2.C.RD.V-1040	S2.C.RD.V-1120																	
S2.C.RD.V-1095	Pipe Jacking for KNP107- KNP106	26	109	-209	16-Oct-22A	10-Mar-23	S2.C.RD.V-1090	S2.C.RD.V-1120, S2.C.RD.V-1112																	
S2.C.RD.V-1112	PE Pipe Installation(KNP108A-106)	28	0	-209	11-Mar-23	17-Apr-23	S2.C.RD.V-1095	S2.C.RD.V-1114																	
S2.C.RD.V-1120	Completion of CH1+010 - CH1+140	0	0	-209		29-Apr-23	S2.C.RD.V-1110, S2.C.RD.V-1100, S2.C.RD.V-1090, S2.C.RD.V-1095, S2.C.RD.V-1114	S2.C.SF-1050, S2.C.SF-1250, S2.C.RD.R-1000																	
Works at Existing Kong Nga Po Road (TTA Required)		188	103	-209	24-Oct-22A	20-Jun-23																			
S2.C.RD.R-1600	CH1+590 - CH1+610 Drainage, Waterworks & Utilities	45	103	-368	24-Oct-22A	10-Mar-23	S3.D.SF-3500	S2.C.RD.R-1650, S3.D.SL-2420																	
S2.C.RD.R-1500	CH0+960 - CH1+010R Waterworks and Road Works	20	99	-222	28-Oct-22A	28-Feb-23	S2.C.RD.R-1450	S2.KE-1100, S2.C.RD.R-1000, S2.C.RD.R-1050																	
S2.C.RD.R-1050	CH1+140 - CH1+190R Drainage, Sewerage and Road Works	50	0	-222	28-Feb-23	02-May-23	S2.C.RD.R-1500	S2.C.RD.R-1100, S2.C.SF-1250																	
S2.C.RD.R-1650	CH1+610 - CH1+690L Drainage & Utilities Waterworks	80	0	-216	11-Mar-23	19-Jun-23	S2.C.RD.R-1600	S2.C.RD.R-1700, S2.C.LD-1000																	
S2.C.RD.R-1100	CH1+110 - CH1+190L Watermains and Road Works	44	0	-222	24-Apr-23	15-Jun-23	S2.C.RD.R-1050	S2.C.RD.R-1150																	
S2.C.RD.R-1000	CH1+010 - CH1+040 Watermains and Road Works	42	0	-209	02-May-23	20-Jun-23	S2.C.RD.R-1500, S2.C.RD.V-1120	S2.C.LD-1300, S2.C.RD.R-1200																	
Bridge Construction (CH1+190 - CH1+320)		408	335	-151	10-Jan-22A	26-Jun-23																			
S2.C.BG-1450	Bridge Deck Construction	120	335	-165	10-Jan-22A	16-Mar-23	S2.C.BG-1400, S2.MS-1200, S2.C.BG-1600.10, S2.C.BG-1600.20, S2.C.BG-1700	S2.C.BG-1500, S2.C.LD-1050, S2.C.SF-1160, S2.C.SF-1170, S2.C.SF-1600, S2.C.RD.R-1150, S2.C.SF-1640																	
S2.C.BG-1650	Retaining Wall RD-C1 & C2	65	131	-225	19-Sep-22A	12-May-23	S2.C.RW-1050.10, S2.C.RW-1050.20																		
S2.C.BG-1500	Sewerage/Utilities on Bridge	80	0	-151	17-Mar-23	26-Jun-23	S2.C.BG-1450	S2.C.BG-1550																	
Drainage Trenchless Works		124	213	0	13-Jun-22A	03-Mar-23																			
S2.C.TD-1200	Pipe Jacking of DN1200 Concrete Pipe (SMH-0125A to SMH-0129A)	26	213	0	13-Jun-22A	01-Mar-23	S2.C.TD-1150, S2.C.TD-1060	S2.C.TD-1250																	
S2.C.TD-1250	Construct Manholes (SMH-0125A and SMH-0129A)	90	213	0	13-Jun-22A	03-Mar-23	S2.C.TD-1200	S2.KE-1000																	
Retaining Wall		110	150	-225	26-Aug-22A	12-May-23																			

█ Remaining Level of Effort
 █ Remaining Work
 █ Actual Work
 █ Critical Remaining Work
 ◆ Milestone
 → Summary



Activity ID	Activity Name	Original Duration	Actual Duration	Total Float	Start	Finish	Predecessors	Successors	2023																
									February				March				April								
									29	05	12	19	26	05	12	19	26	02	09	16	23	30	07	14	21
S2.C.RW-1050.20	Retaining Wall RD-C2	100	150	-225	26-Aug-22A	12-May-23	S2.C.BG-1375.20, S2.SDR.FD-1050	S2.C.RD.V-1050, S2.C.SF-1100, S2.C.SF-1150, S2.C.BG-1650	Retaining Wall RD-C2																
S2.C.RW-1050.10	Retaining Wall RD-C1	100	131	-216	19-Sep-22A	02-May-23	S2.SDR.FD-1050, S2.C.BG-1375.10, S2.C.RW-1050.30, S2.C.RW-1010	S2.C.BG-1650, S2.CE-1250, S2.C.SF-1150, S2.C.SF-1100	Retaining Wall RD-C1																
Site Formation and Slope Upgrading Works		307	199	-175	29-Jun-22A	05-Oct-23																			
S2.C.SF-1160	Fill Slope near Bridge Abutment A(3NW-C/C345)	14	150	-85	26-Aug-22A	01-Apr-23	S2.C.BG-1450	S2.CE-1150, S2.C.SF-1620	Fill Slope near Bridge Abutment A(3NW-C/C345)																
S2.C.SF-1550	Fill Slope near CH0+900 - CH1+040R	100	142	-116	05-Sep-22A	07-Jun-23	S2.C.RD.R-1450	S2.CE-1200, S2.C.LD-1250, S2.C.SF-1610																	
S2.C.SF-1200	Fill Slope near CH1+350R (near 3NW-C/C351)	150	0	-146	28-Feb-23	30-Aug-23	S2.C.SF-0000, S2.C.RD.V-1050, S3.D.RW-DA-A-1100	S2.CE-1150																	
S2.C.SF-1450	Fill Slope near CH0+910 - CH1+040L	100	0	-150	28-Feb-23	03-Jul-23	S2.C.SF-0000, S2.C.RD.R-1350.10	S2.CE-1150, S2.C.LD-1200																	
S2.C.SF-1600	Fill Replacement of 3NW-C/F54 (near Bridge)	60	0	-71	17-Mar-23	01-Jun-23	S2.SDR.FT-1250, S2.C.BG-1450	S2.CE-1150																	
S2.C.SF-1620	Slope Drain and Wire Mesh for Slope Surface for Feature 1 (3NW-C/C345)	30	0	-85	03-Apr-23	12-May-23	S2.C.SF-1160	S2.CE-1200, S2.C.SF-1630	Slope Drain and Wire Mesh for																
S2.C.SF-1250	Fill Slope near CH1+130L	50	0	-147	03-May-23	03-Jul-23	S2.C.SF-0000, S2.C.RD.R-1050, S2.SDR.FT-1000, S2.C.RD.V-1120	S2.CE-1150, S2.C.LD-1100																	
S2.C.SF-1100	Fill Slope near Feature B	120	0	-225	13-May-23	05-Oct-23	S2.GM-1000, S2.C.BG-1600.10, S2.C.SF-0000, S2.GM-1500, S2.C.RW-1050.10, S2.C.RW-1050.20	S2.C.SF-1150, S2.CE-1150																	
S2.C.SF-1630	Slope Drain and Wire Mesh for Slope Surface for Feature 1 (3NW-C/C346)	30	0	-85	13-May-23	17-Jun-23	S2.C.SF-1620	S2.CE-1200																	
Feature A		119	199	-87	29-Jun-22A	20-Jun-23																			
S2.C.SF-1070	[PM1514] Feature A Row A Rock Dowels (26nos)	65	199	-87	29-Jun-22A	02-May-23	S2.C.SF-1060	S2.C.SF-1080	[PM1514] Feature A Row A Rock Dowels (26nos)																
S2.C.SF-1080	[PM1514] Slope Drain and Wire Mesh for Slope Surface for Feature A (3NW-C/C30)	42	0	-87	02-May-23	20-Jun-23	S2.C.SF-1070	S2.CE-1200																	
Section 3 (Portion D, D1)		826	791	505	30-Jun-20A	13-Apr-23			13-Apr-23, Section 3 (Portion D, D1)																
Key Event		35	0	505	28-Feb-23	13-Apr-23			13-Apr-23, Key Event																
S3.CE-1750	Completion of Retaining Wall DA-A	0	0	-347		28-Feb-23	S3.D.RW-DA-A-1100, S3.D.RW-DA-A-1000, S3.D1.RW-DA-A-10E, S3.D.RW-DA-A-1150, S3.D.RW-DA-A-1000	S3.CE-1200	Completion of Retaining Wall DA-A																
S3.CE-2150	Completion of Retaining Wall DA-I	0	0	-347		28-Feb-23	S3.D.RW-DA-I-1100, S3.D.RW-DA-I-1150, S3.D.RW-DA-I-1200	S3.CE-1200	Completion of Retaining Wall DA-I																
S3.CE-2200	Completion of Retaining Wall DA-J	0	0	-379		28-Feb-23	S3.D.RW-DA-J-1100, S3.D.RW-DA-J-1050	S3.CE-1200, S3.D.SF-2500	Completion of Retaining Wall DA-J																
S3.CE-3010	Completion of Platform A	0	0	540		28-Feb-23	S3.D.SF-3300		Completion of Platform A																
S3.CE-3020	Completion of Platform B	0	0	540		28-Feb-23	S3.D.SF-1450.10		Completion of Platform B																
S3.CE-3030	Completion of Platform C	0	0	540		28-Feb-23	S3.D.SF-1950, S3.D.SF-2650.10, S3.D.SF-2650.15, S3.D.SF-3250, S3.D.SF-3500	S3.CE-3130, S3.CE-3280	Completion of Platform C																
S3.CE-3040	Completion of Platform D	0	0	540		28-Feb-23	S3.D.RW-DA-E-10		Completion of Platform D																
S3.CE-3050	Completion of Platform E	0	0	540		28-Feb-23	S3.D.RW-DA-E-10	S3.CE-3160	Completion of Platform E																
S3.CE-3060	Completion of Platform F	0	0	540		28-Feb-23	S3.D.SF-2850		Completion of Platform F																
S3.CE-3090	Completion of Platform I	0	0	540		28-Feb-23	S3.D.RD-2400	S3.CE-3290	Completion of Platform I																
S3.CE-3110	Completion of Platform K	0	0	540		28-Feb-23	S3.D.RD-2550		Completion of Platform K																
S3.CE-3130	Completion of Feature D	0	0	540		28-Feb-23	S3.CE-3030		Completion of Feature D																
S3.CE-3160	Completion of Feature G	0	0	540		28-Feb-23	S3.CE-3050		Completion of Feature G																
S3.CE-3170	Completion of Feature H	0	0	540		28-Feb-23	S3.D.SL-1050-14		Completion of Feature H																
S3.CE-3200	Completion of Feature K	0	0	540		28-Feb-23	S3.D.SF-2250		Completion of Feature K																
S3.CE-3210	Completion of Feature L	0	0	540		28-Feb-23	S3.D.SF-2300		Completion of Feature L																
S3.CE-3260	Completion of Feature Q1	0	0	540		28-Feb-23	S3.D.SF-3250		Completion of Feature Q1																

█ Remaining Level of Effort
 █ Remaining Work
 █ Critical Remaining Work
 █ Actual Work
 ◆ Milestone
 ◆ Summary



Activity ID	Activity Name	Original Duration	Actual Duration	Total Float	Start	Finish	Predecessors	Successors	2023														
									February				March				April				May		
									29	05	12	19	26	05	12	19	26	02	09	16	23	30	07
S3.KE-1450	Completion of Slope Upgrading Works	0	0	-470	06-Apr-23		S3.D.SL-1050-18, S3.D.SL-2200, S3.D.SL-1100, S3.D.SL-2100, S3.D.SL-1150-06, S3.D.SL-2000, S3.D.SL-1050-68, S3.D.SL-1150-56, S3.D.SL-2300, S3.D.SL-2250, S3.D.SL-2350, S3.D.SL-2420.	S3.KE-1500														Completion of Slope Upgrading Works	
S3.KE-3190	Completion of Feature J	0	0	508	06-Apr-23		S3.D.SL-1150-56															Completion of Feature J	
S3.KE-1250	Completion of Road and Drain	0	0	-477	13-Apr-23		S3.D.RD-1600, S3.D.RD-1000, S3.D.RD-1800, S3.D.RD-1300, S3.D.RD-1200.20, S3.D.RD-1350.20, S3.D.RD-1500.10, S3.D.RD-2450, S3.D.RD-1750.30, S3.D.RD-1300.30, S3.D.RD-1500.20, S3.D.RD-1400.30, S3.D.RD-2500, S3.D.RD-1550.30, S3.D.RD-1850.30, S3.D.RD-2000.70, S3.D.RD-2650, S3.D.RD-2600, S3.D.RD-2750, S3.D.RD-2850, S3.D.RD-2950, S3.D.RD-1800.70, S3.D.RD-2050.70, S3.D.RD-1700.30, S3.D.RD-1350.30, S3.D.RD-1150.20, S3.D.RD-1650.20, S3.D.RD-1450.20, S3.D.RD-1950.20, S3.D.RD-1200.40	S3.KE-1500														Completion of Road and Drain	
S3.KE-1500	Completion of Works in Section 3	0	0	-382	13-Apr-23		PWC-1100, S3.KE-1200, S3.KE-1150, S3.KE-1400, S3.KE-1450, S3.KE-1050, S3.KE-1100, S3.KE-1250, S3.KE-1300, S3.KE-1350, S3.KE-1000, S3.D.PW-1250.	PC.S3													Completion of Works in Section 3		
Preliminary Works		430	791	-367	30-Jun-20A	22-Mar-23																	
S3.D.PW-1250	Tree Felling	430	791	-367	30-Jun-20A	22-Mar-23	S3.MS-1150, CS-1000, S3.D.PW-1150, NCE024	S3.KE-1500														Tree Felling	
Portion D		657	622	-361	21-Jan-21A	13-Apr-23																	
Platform I (+54.5mPD), Platform H (+64.5mPD) & Platform J (+64.5mPD)		430	446	-382	26-Aug-21A	13-Apr-23																	
Site Formation		164	446	-350	26-Aug-21A	28-Feb-23																	
S3.D.SF-2300	Feature L (4800 cum)	90	446	-350	26-Aug-21A	28-Feb-23	S3.GM-1650, S3.SDR,FT-1700, S3.KE-2600	S3.KE-1150, S3.D.RD-1850.20, S3.KE-3210													Feature L (4800 cum)		
S3.D.SF-2250	Feature K (8500 cum)	60	430	-382	14-Sep-21A	28-Feb-23	S3.GM-1100, S3.SDR,FT-1650, S3.D.RW-DA-L-1100, S3.MS-1800, PM1588	S3.D.RD-1000, S3.KE-1150, S3.D.RD-1550.10, S3.D.RW-DA-J-1100, S3.KE-3070, S3.KE-3200													Feature K (8500 cum)		
Road, Drain and Utilities		417	372	-382	24-Nov-21A	13-Apr-23																	
Road L01		214	222	-379	01-Jun-22A	06-Apr-23																	
S3.D.RD-1000	L01 - CH67 - CH200 Drainage (near SMH-S0001 to SMH-S0006)	60	222	-379	01-Jun-22A	20-Mar-23	S3.D.RD-0000, S3.D.SF-2250, S3.AS-1400	S3.KE-1250, S3.D.RD-2800, S3.KE-3310													L01 - CH67 - CH200 Drainage (near SMH-S0001 to SMH-S0006)		
S3.D.RD-2850	L01 - CH67 - CH200 - Utilities and Road Works	14	0	-379	21-Mar-23	06-Apr-23	S3.D.RD-2800	S3.KE-1250													L01 - CH67 - CH200 - Utilities and Road Works		

Remaining Level of Effort
 Remaining Work
 Milestone
 Actual Work
 Critical Remaining Work
 Summary

Three Months Rolling Programme (Mar - May 2023)

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Activity ID	Activity Name	Original Duration	Actual Duration	Total Float	Start	Finish	Predecessors	Successors	2023																
									February				March				April				May				
									29	05	12	19	26	05	12	19	26	02	09	16	23	30	07	14	21
Road L06		128	243	-352	06-May-22A	04-Mar-23			04-Mar-23, Road L06																
CH100 - CH178		128	243	-350	06-May-22A	02-Mar-23			02-Mar-23, CH100 - CH178																
S3.D.RD-1100	L06 - CH100 - CH178 (near Drainage SMH-S0101 to SMH-S0103)	50	243	-350	06-May-22A	28-Feb-23	S3.D.RD-0000, S3.D.SF-2900	S3.D.RD-2900	L06 - CH100 - CH178 (near Drainage SMH-S0101 to SMH-S0103)																
S3.D.RD-2900	L06 - CH100 - CH178 Backfill to Road Formation	20	171	-350	02-Aug-22A	28-Feb-23	S3.D.RD-1100	S3.D.RD-2950	L06 - CH100 - CH178 Backfill to Road Formation																
S3.D.RD-2950	L06 - CH100 - CH178 Utilities and Road Works	14	103	-350	24-Oct-22A	02-Mar-23	S3.D.RD-2900	S3.KE-1250	L06 - CH100 - CH178 Utilities and Road Works																
CH178 - CH305		14	103	-352	24-Oct-22A	04-Mar-23			04-Mar-23, CH178 - CH305																
S3.D.RD-2600	L06 - CH178 - CH305 Utilities and Road Works	14	103	-352	24-Oct-22A	04-Mar-23	S3.D.RD-2550	S3.KE-1250, S3.KE-3080	L06 - CH178 - CH305 Utilities and Road Works																
Road L09		129	120	-381	03-Oct-22A	12-Apr-23			12-Apr-23, Road L09																
S3.D.RD-1050	L09 - CH100 - CH183 Drainage (near SMH-S0201 to SMH-S0205)	50	120	-381	03-Oct-22A	28-Mar-23	S3.D.RD-0000, S3.D.SF-1255, S3.D.RD-1550.10	S3.D.RD-2700	L09 - CH100 - CH183 Drainage (near SMH-S0201 to SMH-S0205)																
S3.D.RD-2700	L09 - CH100 - CH183 Backfill to Road Formation	20	0	-381	28-Feb-23	22-Mar-23	S3.D.RD-1050	S3.D.RD-2750	L09 - CH100 - CH183 Backfill to Road Formation																
S3.D.RD-2750	L09 - CH100 - CH183 Utilities and Road Works	14	0	-381	23-Mar-23	12-Apr-23	S3.D.RD-2700	S3.KE-1250	L09 - CH100 - CH183 Utilities and Road Works																
Road L10		417	372	-382	24-Nov-21A	13-Apr-23			13-Apr-23, Road L10																
CH100 - CH200		200	196	-382	04-Jul-22A	13-Apr-23			13-Apr-23, CH100 - CH200																
S3.D.RD-1550	L10 - CH100 - CH200 Drainage (near SMH-S0701 to SMH-S0002)	60	196	-382	04-Jul-22A	16-Mar-23	S3.D.RD-1550.10	S3.D.RD-1550.20	L10 - CH100 - CH200 Drainage (near SMH-S0701 to SMH-S0002)																
S3.D.RD-1550.20	L10 - CH100 - CH200 Backfill to Road Formation	28	157	-382	18-Aug-22A	23-Mar-23	S3.D.RD-1550	S3.D.RD-1550.30	L10 - CH100 - CH200 Backfill to Road Formation																
S3.D.RD-1550.30	L10 - CH100 - CH200 Utilities and Road Works	14	0	-382	24-Mar-23	13-Apr-23	S3.D.RD-1550.20	S3.KE-1250	L10 - CH100 - CH200 Utilities and Road Works																
CH200 - CH300		57	144	-350	02-Sep-22A	02-Mar-23			02-Mar-23, CH200 - CH300																
S3.D.RD-1850.20	L10 - CH200 - CH300 Backfill to Road Formation	20	144	-350	02-Sep-22A	01-Mar-23	S3.D.RD-1850, S3.D.RD-2000.10, S3.SDR.FD-1500, S3.D.SF-2300	S3.D.RD-1850.30	L10 - CH200 - CH300 Backfill to Road Formation																
S3.D.RD-1850.30	L10 - CH200 - CH300 Utilities and Road Works	18	120	-350	03-Oct-22A	02-Mar-23	S3.D.RD-1850.20	S3.KE-1250	L10 - CH200 - CH300 Utilities and Road Works																
CH300 - CH364		200	372	-363	24-Nov-21A	17-Mar-23			17-Mar-23, CH300 - CH364																
S3.D.RD-2000.20	L10 - CH300 - CH364 Backfill to Road Formation	20	372	-363	24-Nov-21A	01-Mar-23	S3.D.RD-2000, S3.D.RW-DA-K-1150, S3.SDR.FD-1500	S3.D.RD-2000.70	L10 - CH300 - CH364 Backfill to Road Formation																
S3.D.RD-2000.70	L10 - CH300 - CH364 Utilities and Road Works	14	195	-363	05-Jul-22A	17-Mar-23	S3.D.RD-2000.20	S3.KE-1250	L10 - CH300 - CH364 Utilities and Road Works																
Road L12		97	75	-373	25-Nov-22A	29-Mar-23			29-Mar-23, Road L12																
S3.D.RD-2200	L12 - CH100-CH150 Backfill to Road Formation	25	75	-373	25-Nov-22A	13-Mar-23	S3.D.RD-2100, S3.D.RW-DA-K-1000, S3.SDR.FD-1500, S3.D.RW-0000, S3.D.SF-1350, S3.D.RD-2150	S3.D.RD-2500	L12 - CH100-CH150 Backfill to Road Formation																
S3.D.RD-2500	L12 - CH100-CH150 Utilities and Road Works	14	0	-373	14-Mar-23	29-Mar-23	S3.D.RD-2200	S3.KE-1250	L12 - CH100-CH150 Utilities and Road Works																
Platform G (+70.0mPD)		574	539	-379	06-May-21A	06-Apr-23			06-Apr-23, Platform G (+70.0mPD)																
Site Formation		205	539	-371	06-May-21A	27-Mar-23			27-Mar-23, Site Formation																
S3.D.SF-1150.02	Cut and Lower Platform G to +70.0mPD (7800 cum)	90	539	-371	06-May-21A	09-Mar-23	S3.D.RW-DA-H-1200, S3.D.RW-DA-H-1200, S3.D.SF-1450.50	S3.KE-1150, S3.D.RW-DA-H-1200	Cut and Lower Platform G to +70.0mPD (7800 cum)																
S3.D.SF-1250	Fill Slope in front of RW DA-H	20	356	-371	13-Dec-21A	27-Mar-23	S3.D.RW-DA-H-1200, S3.D.RW-DA-H-1200	S3.KE-1150	Fill Slope in front of RW DA-H																

█ Remaining Level of Effort
 █ Remaining Work
 ◆ Milestone
 █ Critical Remaining Work
 ▶ Summary
 █ Actual Work



Activity ID	Activity Name	Original Duration	Actual Duration	Total Float	Start	Finish	Predecessors	Successors	2023															
									February				March				April				May			
									29	05	12	19	26	05	12	19	26	02	09	16	23	30	07	14
Road, Drainage and Utilities									29-Mar-23, Road, Drainage and Utilities															
S3.D.RD-1250	(PMI377) L11 - CH100 - CH213 (near Drainage SMH-S1101 to SMH-0109)	56	487	-373	09-Jul-21 A	06-Mar-23	S3.D.RD-0000, S3.D.RD-1250.10, PMI377	S3.D.RD-2250	[PMI377] L11 - CH100 - CH213 (near Drainage SMH-S1101 to SMH-0109)															
S3.D.RD-2250	L11 - CH100 - CH213 Backfill to Road Formation	30	412	-373	07-Oct-21 A	13-Mar-23	S3.D.RD-1250	S3.D.RD-2650, S3.KE-3070	L11 - CH100 - CH213 Backfill to Road Formation															
S3.D.RD-2650	L11 - CH100 - CH213 Utilities and Road Works	14	401	-373	21-Oct-21 A	29-Mar-23	S3.D.RD-2250	S3.KE-1250	L11 - CH100 - CH213 Utilities and Road Works															
Slope Upgrading Works									06-Apr-23, Slope Upgrading Works															
Feature J									06-Apr-23, Feature J															
S3.D.SL-1150-02	Test Nail TN7 & TN8, including pull-out test	8	79	-379	21-Nov-22 A	28-Feb-23	S3.D.SL-1150-01	S3.D.SL-1150-03	Test Nail TN7 & TN8, including pull-out test															
S3.D.SL-1150-03	Row B Soil Nails (43 nos)	12	0	-379	28-Feb-23	13-Mar-23	S3.D.SL-1150-02	S3.D.SL-1150-06	Row B Soil Nails (43 nos)															
S3.D.SL-1150-04	Cut to 1m below Row A	10	0	-377	28-Feb-23	10-Mar-23	S3.D.SL-1150-01	S3.D.SL-1150-06	Cut to 1m below Row A															
S3.D.SL-1150-06	Row A Soil Nails (61 nos)	18	0	-379	14-Mar-23	03-Apr-23	S3.D.SL-1150-04, S3.D.SL-1150-03	S3.KE-1450, S3.D.SL-1150-56	Row A Soil Nails (61 nos)															
S3.D.SL-1150-56	Landscape Treatment on Slope	18	0	-379	16-Mar-23	06-Apr-23	S3.D.SL-1150-06	S3.KE-1450, S3.KE-3190	Landscape Treatment on Slope															
Platform +64.50 (Interim Principal Office)									31-Mar-23, Platform +64.50 (Interim Principal Office)															
S3.D.SL-1160	Excavation and Lower to +64.50mPD	28	0	-381	28-Feb-23	31-Mar-23	PWC-1300	S3.KE-1150, S3.D.RD-1760.10	Excavation and Lower to +64.50mPD															
Platform F (+64.5mPD)									12-Apr-23, Platform F (+64.5mPD)															
Site Formation									28-Feb-23, Site Formation															
S3.D.SF-2850	Backfilling by 3NW-C/C454, 3NW-C/C401	0	0	-347	28-Feb-23	28-Feb-23	S3.D.RD-1200.30, S3.D.SF-2550, S3.D.SF-1300, S3.D.RD-1300.70, S3.D.RW-DA-F-1100	S3.KE-1150, S3.KE-3060	Backfilling by 3NW-C/C454, 3NW-C/C401															
Road, Drainage and Utilities									12-Apr-23, Road, Drainage and Utilities															
Road L01									12-Apr-23, Road L01															
CH200 - CH350									06-Mar-23, CH200 - CH350															
S3.D.RD-1750.30	L01 - CH200 - CH350 Utilities and Road Works	6	0	-353	28-Feb-23	06-Mar-23	S3.D.RD-1750.20	S3.KE-1250	L01 - CH200 - CH350 Utilities and Road Works															
CH350 - CH450									12-Apr-23, CH350 - CH450															
S3.D.RD-1760.40	L01 - CH350 - CH450 Utilities and Road Works	14	209	-381	17-Jun-22 A	12-Apr-23	S3.D.RD-1760.30	S3.KE-1250	L01 - CH350 - CH450 Utilities and Road Works															
CH518 - CH581									04-Mar-23, CH518 - CH581															
S3.D.RD-1760.80	L01 - CH518 - CH581 Utilities and Road Works	14	109	-352	17-Oct-22 A	04-Mar-23	S3.D.RD-1760.70	S3.KE-1250	L01 - CH518 - CH581 Utilities and Road Works															
Road L02									03-Mar-23, Road L02															
CH100 - CH218									03-Mar-23, CH100 - CH218															
S3.D.RD-1800.70	L02 - CH100 - CH218 Utilities and Road Works	14	103	-351	24-Oct-22 A	03-Mar-23	S3.D.RD-1800.20	S3.KE-1250	L02 - CH100 - CH218 Utilities and Road Works															
CH218 - CH250									03-Mar-23, CH218 - CH250															
S3.D.RD-2050.70	L02 - CH218 - CH250 Utilities and Road Works	14	103	-351	24-Oct-22 A	03-Mar-23	S3.D.RD-2050.20	S3.KE-1250	L02 - CH218 - CH250 Utilities and Road Works															
CH250 - CH350									28-Feb-23, CH250 - CH350															
S3.D.RD-2450	L02 - CH250 - CH350 Utilities and Road Works	14	103	-348	24-Oct-22 A	28-Feb-23	S3.D.RD-2400	S3.KE-1250, S3.KE-3100	L02 - CH250 - CH350 Utilities and Road Works															

█ Remaining Level of Effort
 █ Remaining Work
 ◆ Milestone
 █ Actual Work
 █ Critical Remaining Work
 ▶ Summary



Activity ID	Activity Name	Original Duration	Actual Duration	Total Float	Start	Finish	Predecessors	Successors	2023																
									February					March					April				May		
									29	05	12	19	26	05	12	19	26	02	09	16	23	30	07	14	21
CH350 - CH518		95	103	-354	24-Oct-22A	02-Mar-23			02-Mar-23, CH350 - CH518																
S3.D.RD-1400.20	L02 - CH350 - CH518 Backfilling to Formation Level	10	103	-354	24-Oct-22A	02-Mar-23	S3.D.RD-1400	S3.D.RD-1400.70	L02 - CH350 - CH518 Backfilling to Formation Level																
S3.D.RD-1400.70	Backfill to DA-M Bay 2-9	0	0	-354		02-Mar-23	S3.D.RD-1400.20	S3.D.SF-3000	Backfill to DA-M Bay 2-9																
Platform K (+64.5mPD) & Platform L (+62.5mPD)		133	222	-353	01-Jun-22A	06-Mar-23			06-Mar-23, Platform K (+64.5mPD) & Platform L (+62.5mPD)																
Site Formation		25	222	-349	01-Jun-22A	01-Mar-23			01-Mar-23, Site Formation																
S3.D.SF-2100	No-Fines Concrete Fill 3NW-C/F51 (near RW DA-M Bay 1 to 12)	25	222	-349	01-Jun-22A	01-Mar-23	S3.GM-1950, S3.SDR,FT-1400, S3.KE-2350	S3.KE-1150	No-Fines Concrete Fill 3NW-C/F51 (near RW DA-M Bay 1 to 12)																
Road, Drainage and Utilities		113	204	-353	23-Jun-22A	06-Mar-23			06-Mar-23, Road, Drainage and Utilities																
Road L07		30	103	-353	24-Oct-22A	06-Mar-23			06-Mar-23, Road L07																
S3.D.RD-1700.30	L07 - CH100 - CH172 Utilities and Road Works	30	103	-353	24-Oct-22A	06-Mar-23	S3.D.RD-1700.20	S3.KE-1250	L07 - CH100 - CH172 Utilities and Road Works																
Road L08		95	204	-353	23-Jun-22A	06-Mar-23			06-Mar-23, Road L08																
CH100 - CH227		14	204	-353	23-Jun-22A	06-Mar-23			06-Mar-23, CH100 - CH227																
S3.D.RD-1300.30	L08 - CH100 - CH227 Utilities and Road Works	14	204	-353	23-Jun-22A	06-Mar-23	S3.D.RD-1300.20	S3.KE-1250, S3.KE-3120	L08 - CH100 - CH227 Utilities and Road Works																
CH227 - CH362		14	103	-349	24-Oct-22A	01-Mar-23			01-Mar-23, CH227 - CH362																
S3.D.RD-1350.30	L08 - CH227 - CH362 Utilities and Road Works	14	103	-349	24-Oct-22A	01-Mar-23	S3.D.RD-1350.80	S3.KE-1250, S3.KE-3120	L08 - CH227 - CH362 Utilities and Road Works																
Platform C (+48.0mPD) & Tanks/Underpass		184	203	-362	24-Jun-22A	16-Mar-23			16-Mar-23, Platform C (+48.0mPD) & Tanks/Underpass																
Sewage Storage Tank		12	213	-435	30-Jul-22A	02-Mar-23			02-Mar-23, Sewage Storage Tank																
S3.D.SEW-1950	Commissioning Test Report	12	213	-435	30-Jul-22A	02-Mar-23	S3.D.SEW-1900	S3.KE-1350	Commissioning Test Report																
Road, Drainage and Utilities		184	203	-362	24-Jun-22A	16-Mar-23			16-Mar-23, Road, Drainage and Utilities																
S3.D.RD-1600	CH1+440 - CH1+590 Drainage, Sewerage, Waterworks & Utilities	45	142	-368	05-Sep-22A	16-Mar-23	S3.D.RD-0000, S3.D.SF-3500	S3.KE-1250, S3.D.SL-2420	CH1+440 - CH1+590 Drainage, Sewerage, Waterworks & Utilities																
Road L01		75	91	-351	07-Nov-22A	03-Mar-23			03-Mar-23, Road L01																
S3.D.RD-1500.10	L01 - CH581 - CH691 Backfill to Road Formation	12	91	-351	07-Nov-22A	01-Mar-23	S3.D.RD-1500	S3.KE-1250, S3.D.RD-1500.20	L01 - CH581 - CH691 Backfill to Road Formation																
S3.D.RD-1500.20	L01 - CH581 - CH691 Utilities and Road Works	4	0	-351	28-Feb-23	03-Mar-23	S3.D.RD-1500.10	S3.KE-1250	L01 - CH581 - CH691 Utilities and Road Works																
Road L03		179	203	-353	24-Jun-22A	06-Mar-23			06-Mar-23, Road L03																
S3.D.RD-1150.10	L03 - CH100 - CH163 Backfilling and Road Works	12	203	-353	24-Jun-22A	01-Mar-23	S3.D.RD-1150	S3.D.RD-1150.20	L03 - CH100 - CH163 Backfilling and Road Works																
S3.D.RD-1150.20	L03 - CH100 - CH163 Utilities and Road Works	4	0	-353	02-Mar-23	06-Mar-23	S3.D.RD-1150.10	S3.KE-1250, S3.KE-3310	L03 - CH100 - CH163 Utilities and Road Works																
Road L04		138	198	-362	30-Jun-22A	16-Mar-23			16-Mar-23, Road L04																
CH100 - CH185		26	120	-354	03-Oct-22A	07-Mar-23			07-Mar-23, CH100 - CH185																
S3.D.RD-1450.10	L04 - CH100 - CH185 Backfilling and Road Works	12	120	-354	03-Oct-22A	02-Mar-23	S3.D.RD-1450	S3.D.RD-1450.20	L04 - CH100 - CH185 Backfilling and Road Works																
S3.D.RD-1450.20	L04 - CH100 - CH185 Utilities and Road Works	14	109	-354	17-Oct-22A	07-Mar-23	S3.D.RD-1450.10	S3.KE-1250	L04 - CH100 - CH185 Utilities and Road Works																
CH185 - CH309		138	198	-362	30-Jun-22A	16-Mar-23			16-Mar-23, CH185 - CH309																
S3.D.RD-1650	L04 - CH185 - CH309 Drainage (near SMH-S1304 to SMH-S0125)	40	198	-362	30-Jun-22A	01-Mar-23	S3.D.SF-2650.20	S3.D.RD-1650.10	L04 - CH185 - CH309 Drainage (near SMH-S1304 to SMH-S0125)																

■ Remaining Level of Effort
 ■ Remaining Work
 ◆ Milestone
■ Actual Work
 ■ Critical Remaining Work
 ⇨ Summary



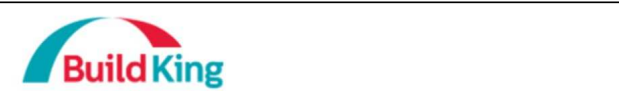
Activity ID	Activity Name	Original Duration	Actual Duration	Total Float	Start	Finish	Predecessors	Successors	2023																			
									February					March					April					May				
									29	05	12	19	26	05	12	19	26	02	09	16	23	30	07	14	21			
S3.D.RD-1650.10	L04 - CH185 - CH309 Backfilling and Road Works	14	79	-362	21-Nov-22A	08-Mar-23	S3.D.RD-1650	S3.D.RD-1650.20	L04 - CH185 - CH309 Backfilling and Road Works																			
S3.D.RD-1650.20	L04 - CH185 - CH309 Utilities and Road Works	14	73	-362	28-Nov-22A	16-Mar-23	S3.D.RD-1650.10	S3.KE-1250, S3.KE-3270, S3.KE-3240	L04 - CH185 - CH309 Utilities and Road Works																			
Road L05		91	146	-362	31-Aug-22A	16-Mar-23			16-Mar-23, Road L05																			
S3.D.RD-1950	L05 - CH100 - CH159 Drainage/Sewerage (near SMH-0502 to SMH-S0127)	30	146	-362	31-Aug-22A	02-Mar-23	S3.D.SF-2650.20	S3.D.RD-1950.10	L05 - CH100 - CH159 Drainage/Sewerage (near SMH-0502 to SMH-S0127)																			
S3.D.RD-1950.10	L05 - CH100 - CH159 Backfill to Road Formation	16	115	-362	10-Oct-22A	08-Mar-23	S3.D.RD-1950	S3.D.RD-1950.20	L05 - CH100 - CH159 Backfill to Road Formation																			
S3.D.RD-1950.20	L05 - CH100 - CH159 - Utilities and Road Works	14	103	-362	24-Oct-22A	16-Mar-23	S3.D.RD-1950.10	S3.KE-1250	L05 - CH100 - CH159 - Utilities and Road Works																			
Slope Upgrading Works		45	140	-351	07-Sep-22A	03-Mar-23			03-Mar-23, Slope Upgrading Works																			
S3.D.SL-1100	Upgrading Works for Slope at Platform C +48mPD (Feature D) [existing 3NW-C/C363]	45	140	-351	07-Sep-22A	03-Mar-23	S3.D.SL-0000, S3.GM-1900, S3.SDR,FT-1150, S3.D1.SF-1000, PM534	S3.KE-1450	Upgrading Works for Slope at Platform C +48mPD (Feature D) [existing 3NW-C/C363]																			
Platform B (+52.5mPD)		172	183	-375	19-Jul-22A	31-Mar-23			31-Mar-23, Platform B (+52.5mPD)																			
Site Formation		172	183	-375	19-Jul-22A	31-Mar-23			31-Mar-23, Site Formation																			
S3.D.SF-1100	Cut Feature E & F to +52.5mPD at Platform B	75	183	-367	19-Jul-22A	22-Mar-23	S3.D.SF-1200, S3.GM-1000, S3.AS-1150, S3.D.SF-1700, S3.SDR,FT-1550	S3.KE-1150, S3.KE-3140, S3.KE-3150	Cut Feature E & F to +52.5mPD at Platform B																			
S3.D.SF-1110	Drainage Construction at Front Face of DA-C (3NW-C/C357)	28	148	-375	29-Aug-22A	31-Mar-23	S3.D.RW-DA-C-337	S3.KE-1150	Drainage Construction at Front Face of DA-C (3NW-C/C357)																			
S3.D.SF-1450	Backfill to DA-C	0	0	-347		28-Feb-23	S3.D.SF-1400, S3.D.SF-1450.50, S3.D.SF-1450.40	S3.KE-1150	Backfill to DA-C																			
Slope Upgrading Works		57	137	-353	12-Sep-22A	06-Mar-23			06-Mar-23, Slope Upgrading Works																			
Feature E		45	137	-353	12-Sep-22A	06-Mar-23			06-Mar-23, Feature E																			
S3.D.SL-2300	Landscape Treatment on Slope	30	137	-353	12-Sep-22A	28-Feb-23	S3.D.SL-2000	S3.KE-1450, S3.D.SL-2410	Landscape Treatment on Slope																			
S3.D.SL-2410	Drainage works and surface protection works for existing slopes - feature no 3NW-C/C357 and C358	45	137	-353	12-Sep-22A	06-Mar-23	S3.D.SL-2300	S3.KE-1450, S3.KE-3140	Drainage works and surface protection works for existing slopes - feature no 3NW-C/C357 and C358																			
Feature F		49	134	-349	15-Sep-22A	01-Mar-23			01-Mar-23, Feature F																			
S3.D.SL-2350	Landscape Treatment on Slope	18	134	-349	15-Sep-22A	01-Mar-23	S3.D.SL-2200	S3.KE-1450, S3.KE-3150	Landscape Treatment on Slope																			
S3.D.SL-2200	RowA Soil Nails (29 nos)	10	132	-349	17-Sep-22A	01-Mar-23	S3.D.SL-2150	S3.KE-1450, S3.D.SL-2350	RowA Soil Nails (29 nos)																			
S3.D.SL-2150	Test Nail TN8	6	73	-349	28-Nov-22A	28-Feb-23	S3.D.SL-2100	S3.D.SL-2200	Test Nail TN8																			
Platform A (+49.0mPD)		643	622	-347	21-Jan-21A	23-Mar-23			23-Mar-23, Platform A (+49.0mPD)																			
Site Formation		622	622	-347	21-Jan-21A	28-Feb-23			28-Feb-23, Site Formation																			
S3.D.SF-1550	Excavate to +49.0mPD at PlatformA	54	622	-349	21-Jan-21A	28-Feb-23	S3.D.PW-1450, S3.GM-1700, S3.SDR,FT-1000, S3.D.SF-1650	S3.KE-1150, S3.D.RD-1350.20	Excavate to +49.0mPD at PlatformA																			
S3.D.SF-3300	Backfill to PlatformA	0	0	-347		28-Feb-23	S3.D.SF-1900	S3.KE-1150, S3.KE-3010	Backfill to PlatformA																			
Slope Upgrading Works		21	0	-347	28-Feb-23	23-Mar-23			23-Mar-23, Slope Upgrading Works																			
S3.D.SL-2420	Drainage works and surface protection works for existing slopes - feature no 3NW-C/C350[Feature M]	21	0	-368	28-Feb-23	23-Mar-23	S3.D.SF-3100, S2.C.SF-1305, S2.C.RD.R-1600, S3.D.RD-1600	S3.KE-1450, S3.D.SF-1900, S3.D.SL-2430, S3.KE-3220	Drainage works and surface protection works for existing slopes - feature no 3NW-C/C350[Feature M]																			
S3.D.SL-2430	Drainage works and surface protection works for existing slopes - feature no 3NW-C/C351	21	0	-347	28-Feb-23	23-Mar-23	S3.D.SL-2420	S3.D.SF-1900, S3.KE-3230, S3.KE-3250, S3.KE-3320	Drainage works and surface protection works for existing slopes - feature no 3NW-C/C351																			

█ Remaining Level of Effort
 █ Remaining Work
 █ Actual Work
 █ Critical Remaining Work
 ◆ Milestone
 → Summary

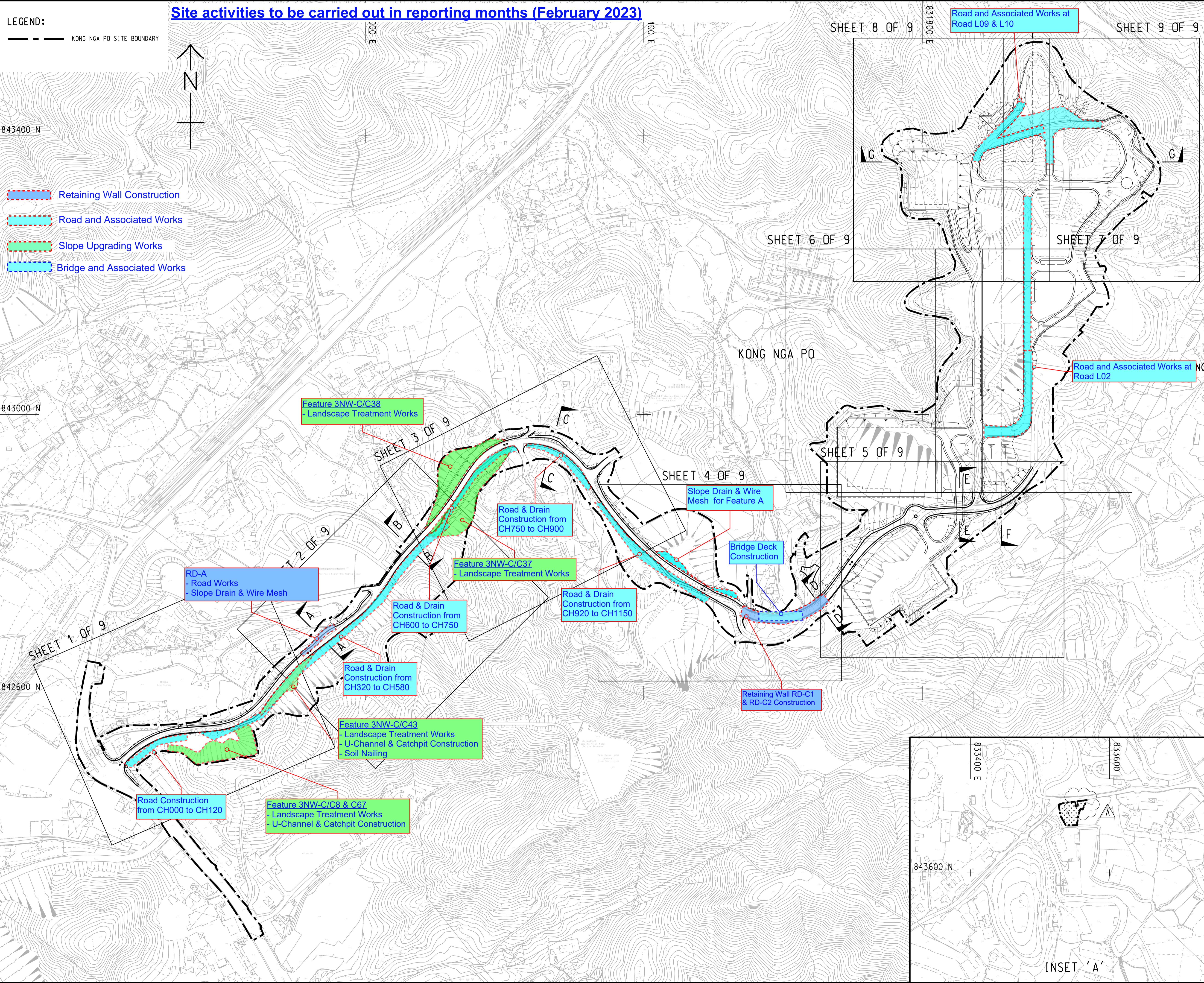


Activity ID	Activity Name	Original Duration	Actual Duration	Total Float	Start	Finish	Predecessors	Successors	2023													
									February					March				April				May
									29	05	12	19	26	05	12	19	26	02	09	16	23	30
Portion D1		45	142	-352	05-Sep-22A	04-Mar-23			→ 04-Mar-23, Portion D1													
S3.D1.SF-1050	Drainage for 3NW-C/C366	45	142	-350	05-Sep-22A	02-Mar-23	S3.SDR.FT-1200, S3.GM-2000, S3.D.RW-DA-M-1000, S3.D1.RW-DA-M-1000	S3.KE-1150	Drainage for 3NW-C/C366													
S3.D1.SF-1000	Excavate 3NW-C/C439 to +48.0mPD (11900cum)	25	139	-352	08-Sep-22A	04-Mar-23	AD-P4, S3.D.RW-DA-M-1000	S3.KE-1150, S3.D.SL-1100	Excavate 3NW-C/C439 to +48.0mPD (11900cum)													
Section 4 (Preservation and Protection of Existing Trees, other than Establishment Works)		1248	1189	-276	27-Nov-19A	04-Dec-23																
S4-1000	Preservation and Protection of Existing Trees, other than Establishment Works	1248	1189	-276	27-Nov-19A	04-Dec-23	SD, PC.S3, PC.S1, PC.S2		[Green bar representing remaining level of effort]													

Remaining Level of Effort	Remaining Work	Milestone
Actual Work	Critical Remaining Work	Summary



Plot File by: WingSan.Chan@aecom.com
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 02-July-2019
 Project Management Initials: Designer: YHT Checked: SCWC Approved: ROKYK ISO A1 594mm x 841mm



Site activities to be carried out in reporting months (February 2023)

LEGEND:
 --- KONG NGA PO SITE BOUNDARY

- Retaining Wall Construction
- Road and Associated Works
- Slope Upgrading Works
- Bridge and Associated Works



PROJECT
 項目
 SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

CONTRACT TITLE
 合約名稱
 SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO

CLIENT
 業主
 土木工程拓展署
 Civil Engineering and Development Department

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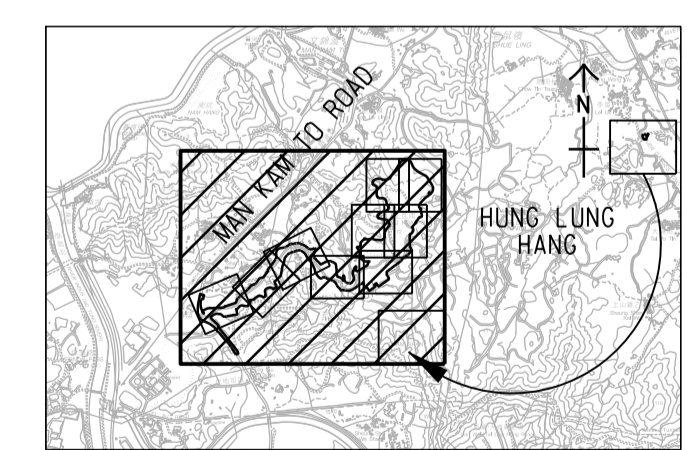
SUB-CONSULTANTS
 分判工程顧問公司

ISSUE/REVISION
 修訂

I/R	DATE	DESCRIPTION	CHK.
A	JUL. 19	TENDER ADDENDUM NO.1	SCWC
-	JUN. 19	TENDER DRAWING	SCWC

SCALE
 比例
 A1 1 : 2500

DIMENSION UNIT
 尺寸單位
 公尺/呎



PROJECT NO.
 項目編號
 60534575

CONTRACT NO.
 合約編號
 ND/2018/01

SHEET TITLE
 圖紙名稱
 KEY PLAN AND LOCATION PLAN

SHEET NUMBER
 圖紙編號
 60534575/C1/1000A

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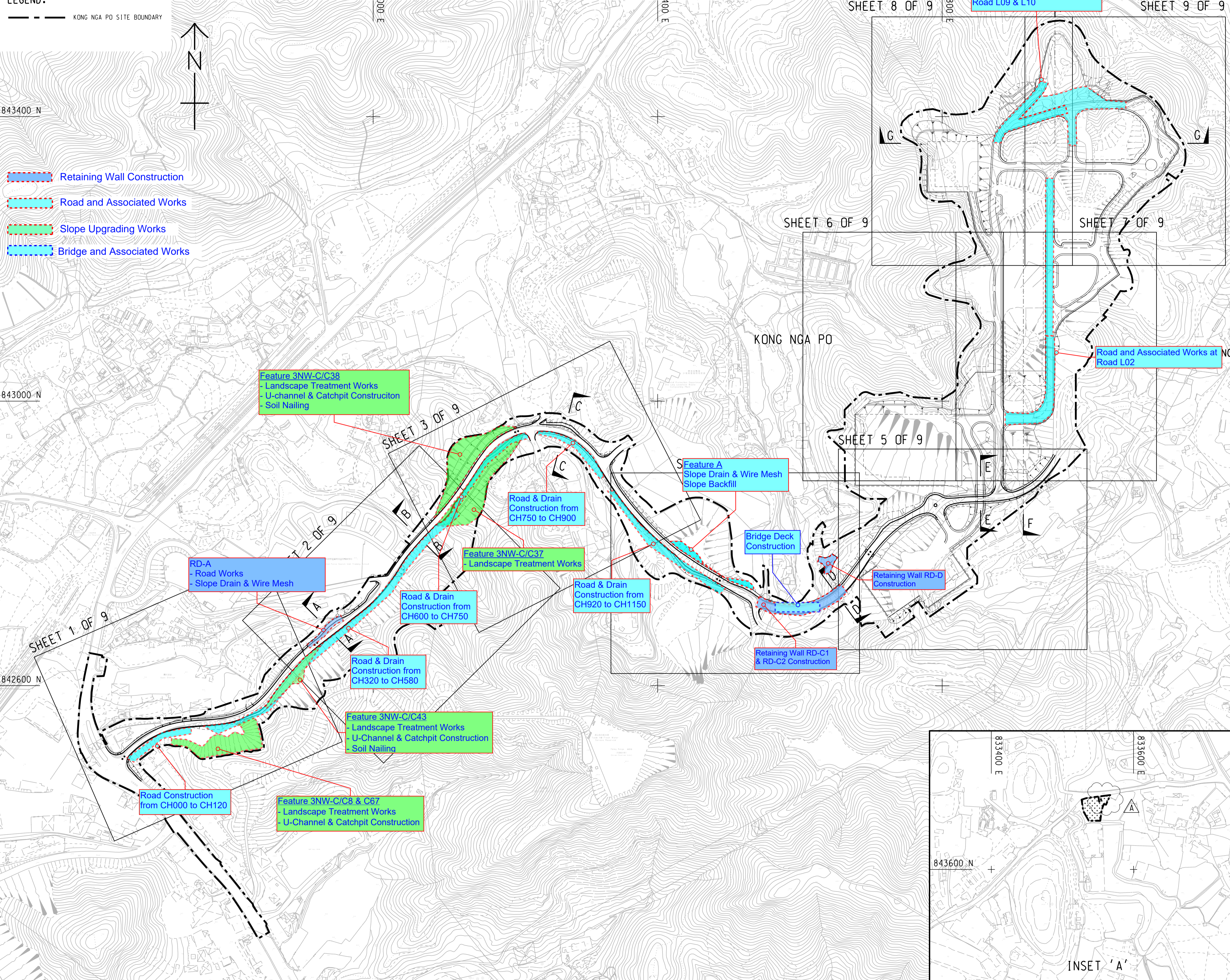
Plot File by: WingSan.Chan@aecom.com
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 02-July-2019
 Project Management Initials: Designer: YHT Checked: SCWC Approved: ROKK ISO A1 594mm x 841mm

LEGEND:

--- KONG NGA PO SITE BOUNDARY

- Retaining Wall Construction
- Road and Associated Works
- Slope Upgrading Works
- Bridge and Associated Works

Site activities to be carried out in coming months (March 2023 to May 2023)



PROJECT
 項目
 SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

CONTRACT TITLE
 合約名稱
 SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO

CLIENT
 業主
 土木工程拓展署
 Civil Engineering and Development Department

CONSULTANT
 工程顧問公司
 AECOM Asia Company Ltd.
 www.aecom.com

SUB-CONSULTANTS
 分判工程顧問公司

ISSUE/REVISION

I/R	DATE	DESCRIPTION	CHK.
A	JUL. 19	TENDER ADDENDUM NO.1	SCWC
-	JUN. 19	TENDER DRAWING	SCWC

STATUS

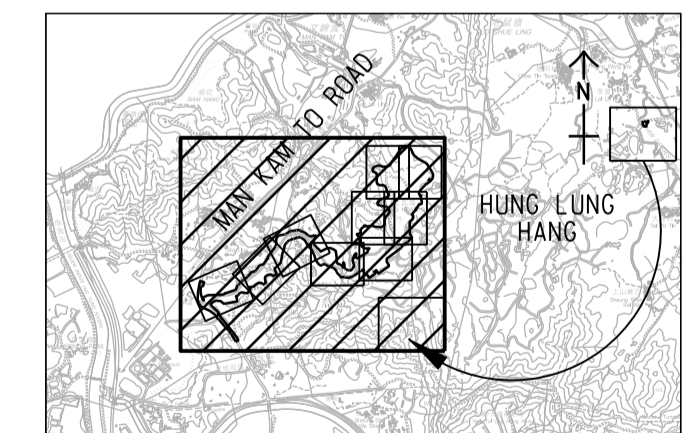
擬定

SCALE **DIMENSION UNIT**

比例 尺寸單位
 A1 1 : 2500

KEY PLAN A1 1 : 50000

索引圖



PROJECT NO. **CONTRACT NO.**

項目編號 合約編號
 60534575 ND/2018/01

SHEET TITLE

圖紙名稱
 KEY PLAN AND LOCATION PLAN

SHEET NUMBER

圖紙編號
 60534575/C1/1000A

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Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
EIA 3.91; EM&A Log 2.2	Reinforced Concrete	Kong Nga Po Main Site	Air	<ul style="list-style-type: none"> Dusty materials that exceeded 20 bags will be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting.
EIA 5.6.1.2; EM&A Log 4.2	Structure Construction Including Retaining	Kong Nga Po Road	Waste water pollution control	<ul style="list-style-type: none"> Soil berm and retention pit will be provided for the control of water outflow Desilting/sedimentation devices will be provided for wastewater treatment prior to discharge Designated location for residual concrete washout
EIA 4.4.6; EM&A Log 3.2	Wall & Bridge Deck		Noise	<ul style="list-style-type: none"> Well-planning of concreting works to prevent working in restricted hours
EIA 4.4.6; EM&A Log 3.2			Working in Restricted Hours	<ul style="list-style-type: none"> Valid construction noise permit should be obtained and displayed on site In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out
EIA 7.5.1.4; EM&A Log 6.2			Chemicals for concreting works	<ul style="list-style-type: none"> Chemical for concreting works should be stored in designated area with proper labelling and packing Designated location for residual concrete washout
EIA 3.91; EM&A Log 2.2	Slope Upgrading Works	Kong Nga Po Road	Dust impact from soil nail works	<ul style="list-style-type: none"> Three side enclosure with top shelter for cement mixing works Water spraying on soil nailing works Dusty materials exceeding 20 bags shall be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting
EIA 5.6.1.2; EM&A Log 4.2			Water	<ul style="list-style-type: none"> Deploy desilting/sedimentation devices for wastewater treatment prior to discharge



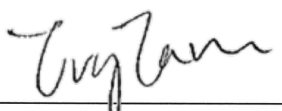

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
	(Cont')	(Cont')		<ul style="list-style-type: none"> Establish soil berm with retention pit to control water outflow
EIA 4.4.6; EM&A Log 3.2	Slope Upgrading Works	Kong Nga Po Road	Noise	<ul style="list-style-type: none"> Regular inspection and maintenance of plant and equipment in good condition Provide noise barriers for soil nailing works where near the sensitive receiver
EIA 10.11, EM&A Log 9.4			Ecology Concern	<ul style="list-style-type: none"> Provide training to frontline workers for the conservative species Provision of protective fence for the conservative species Regular inspection for concerned vegetation
EIA Table 10.11 EM&A Table 9.1			Landscape and visual impact	<ul style="list-style-type: none"> Properly fenced off the conservative species Preservation of existing trees will be undertaken in accordance with DEVB TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management Arrangement
EIA 3.91; EM&A Log 2.2			Trenchless Works	Kong Nga Po Road
EIA 5.6.1.2; EM&A Log 4.2	Water	<ul style="list-style-type: none"> Provide desilting/sedimentation devices for wastewater treatment before discharge 		
EIA 4.4.6; EM&A Log 3.2	Noise from roadworks	<ul style="list-style-type: none"> Enclose the noisy part of machineries with noise isolating mats during hard surface breaking 		
EIA 7.5.1.4; EM&A Log 6.2	Chemical Waste	<ul style="list-style-type: none"> Drip tray and chemical spillage kit shall be provided on site 		

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
EIA Table 10.11 EM&A Table 9.1	(Cont') Trenchless Works	(Cont') Kong Nga Po Road	Landscape and visual impact	<ul style="list-style-type: none"> Properly fenced off the conservative species Properly implement temporary traffic arrangement which control construction area to minimize landscape and visual impacts
EIA 3.91; EM&A Log 2.2	Road and Associated Works	Kong Nga Po Main Site Kong Nga Po Road	Air Dust impact from excavation activities and earth moving	<ul style="list-style-type: none"> Use of regular water spraying (once every 1.25 hours or 8 times per day) at all active works area exposed site surfaces and unpaved roads, particularly during dry weather Regular inspection and maintenance of plant and equipment in good condition Regularly clean up stockpiles and debris to avoid accumulation of materials Wheel washing facilities shall be provided at each construction site exit of roadworks Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads
EIA 5.6.1.2; EM&A Log 4.2			Water	<ul style="list-style-type: none"> Provide desilting/sedimentation devices for wastewater treatment before discharge The wheels of all vehicles and plant should be cleaned before leaving the works areas to remove sediment, soil and debris from the tracks. The washwater should be treated to remove any suspended sediment.
EIA 4.4.6; EM&A Log 3.2			Noise from roadworks	<ul style="list-style-type: none"> Enclose the noisy part of machineries with noise isolating mats during hard surface breaking
EIA 4.4.6;			Working in	<ul style="list-style-type: none"> Valid construction noise permit should be obtained and displayed on site

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
EM&A Log 3.2	(Cont') Road and	(Cont') Kong Nga Po Main	Restricted Hours	<ul style="list-style-type: none"> In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out
EIA 7.5.1.4; EM&A Log 6.2	Associated Works	Site Kong Nga Po Road	Chemical Waste	<ul style="list-style-type: none"> Drip tray and chemical spillage kit shall be provided on site
EIA Table 10.11 EM&A Table 9.1			Landscape and visual impact	<ul style="list-style-type: none"> Properly fenced off the conservative species Properly implement temporary traffic arrangement which control construction area to minimize landscape and visual impacts

*EIA Ref/EM&A Log Ref/Design Document Ref

**Details of equipment, vehicles, plants, processes, technologies for the construction method

	Name	Signature	Date
Prepared by Contractor	Alex Liu		3 Mar 2023
Endorsed by Supervisor's Representative	Andy Cheng		3 March 2023
Reviewed by Environmental Team Leader	Ivy Tam		6 March 2023
Approved by Independent Environmental Checker	Melody Cheng		14 March 2023

**Contract No. SSK509 –
Design and Construction of Kong Nga Po
Police Training Facilities**

**Design & Construction of Kong Nga Po Police Training Facilities
Master Programme (MP)**

Revision : 02

ID	Task	Duration	Start	Finish	Total Slack	Time Risk Allowance	Gantt Chart															
							Qtr 1, 2023 Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
981	Material Submission Approval	30 d	Wed 30/8/23	Thu 28/9/23	278 d																	
982	Equipment Order Date	15 d	Fri 29/9/23	Fri 13/10/23	278 d																	
983	Equipment Manufacturing	140 d	Sat 14/10/23	Fri 1/3/24	278 d																	
984	Material on Site	15 d	Sat 2/3/24	Sat 16/3/24	278 d																	
985	Smart Pole	200 d	Wed 30/8/23	Sat 16/3/24	951 d																	
986	Material Submission Approval	30 d	Wed 30/8/23	Thu 28/9/23	951 d																	
987	Equipment Order Date	15 d	Fri 29/9/23	Fri 13/10/23	951 d																	
988	Equipment Manufacturing	140 d	Sat 14/10/23	Fri 1/3/24	951 d																	
989	Material on Site	15 d	Sat 2/3/24	Sat 16/3/24	951 d																	
990	Complete Major BS Plant & Equipment Procurement	0 d	Sat 16/3/24	Sat 16/3/24	951 d																	
991	Site Execution	926 d	Fri 23/12/22	Sat 5/7/25	147 d																	
992	Access Date of Section 1 and 2	0 d	Fri 23/12/22	Fri 23/12/22	265 d																	
993	Landscape Visual Impact Assessment (LVIA) Application	180 d	Fri 20/1/23	Tue 18/7/23	1193 d																	
994	Preparation of Submission Documents	30 d	Fri 20/1/23	Sat 18/2/23	1193 d																	
995	1st Submission	60 d	Sun 19/2/23	Wed 19/4/23	1193 d																	
996	Comment from EPD and Revision	30 d	Thu 20/4/23	Fri 19/5/23	1193 d																	
997	Re-submission	60 d	Sat 20/5/23	Tue 18/7/23	1193 d																	
998	Approval of LVIA	0 d	Tue 18/7/23	Tue 18/7/23	1193 d																	
999	Tree Preservation and Removal Application and Protection Works	143 d	Fri 23/12/22	Sun 14/5/23	404 d																	
1000	Tree Survey	25 d	Fri 23/12/22	Mon 16/1/23	404 d																	
1001	Preparation of Survey Report	14 d	Tue 17/1/23	Mon 30/1/23	404 d																	
1002	Preparation of Tree Preservation and Removal Proposal	0 d	Sat 4/2/23	Sat 4/2/23	1327 d																	
1003	Submission for Tree Preservation and Removal Proposal	0 d	Fri 10/2/23	Fri 10/2/23	1351 d																	
1004	Approval of Tree Preservation and Removal Proposal	0 d	Tue 11/4/23	Tue 11/4/23	360 d																	
1005	Tree Protection Works	30 d	Sat 15/4/23	Sun 14/5/23	1258 d																	
1006	Tree Transplant / Removal	14 d	Wed 12/4/23	Tue 25/4/23	360 d																	
1007	Temporary Traffic Management Submission	118 d	Fri 23/12/22	Wed 19/4/23	1283 d																	
1008	TTMs / TTA Drawings Preparation & Submission	28 d	Fri 23/12/22	Thu 19/1/23	1283 d																	
1009	Plan Submission and Period Assessment/ Liasion with TD	30 d	Fri 20/1/23	Sat 18/2/23	1283 d																	
1010	Submission of TTMs Drawing & Scheme to TD	30 d	Sun 19/2/23	Mon 20/3/23	1283 d																	
1011	Advices / Comment from TD and Other Authority	30 d	Tue 21/3/23	Wed 19/4/23	1283 d																	
1012	Approved by TD and Other Authority	0 d	Wed 19/4/23	Wed 19/4/23	1283 d																	
1013	Site Mobilization & Establishment	558 d	Fri 23/12/22	Tue 2/7/24	265 d																	
1014	Site Mobilization	113 d	Fri 23/12/22	Fri 14/4/23	265 d																	
1015	Site Mobilization	21 d	Fri 23/12/22	Wed 18/1/23	1089 d	0 d																
1016	Initial Liaison with Adj. Contractors & Related Parties	14 d	Fri 23/12/22	Tue 10/1/23	1096 d	0 d																
1017	Site & Condition Survey	21 d	Fri 23/12/22	Wed 18/1/23	212 d	0 d																
1018	Topographic Survey	21 d	Fri 23/12/22	Wed 18/1/23	212 d	0 d																
1019	Submit Survey Report to ArchSD	7 d	Thu 19/1/23	Thu 26/1/23	1082 d	0 d																
1020	Site Clearance	50 d	Fri 23/12/22	Tue 28/2/23	1032 d	0 d																
1021	Temporary Drainage System & Wheel Washing Facilities	28 d	Wed 1/3/23	Sat 1/4/23	1032 d	0 d																
1022	Hoarding & Gantry Erection	40 d	Tue 28/2/23	Fri 14/4/23	1021 d	0 d																
1023	Complete Site Mobilization	0 d	Fri 14/4/23	Fri 14/4/23	1021 d	0 d																
1024	Movement & Ground Water Monitoring System	67 d	Fri 23/12/22	Mon 27/2/23	1334 d																	
1025	Preparation of Monitoring Proposal	3 d	Fri 23/12/22	Tue 27/12/22	1087 d	0 d																
1026	Submission to GEO	28 d	Wed 28/12/22	Mon 30/1/23	1087 d	0 d																
1027	Submission to Design Checker	0 d	Tue 27/12/22	Tue 27/12/22	1087 d	0 d																
1028	Checking by Design Checker	7 d	Wed 28/12/22	Thu 5/1/23	1087 d	0 d																
1029	Submission to ArchSD	0 d	Thu 5/1/23	Thu 5/1/23	1087 d	0 d																
1030	Assessment of Proposal by ArchSD	21 d	Fri 6/1/23	Mon 30/1/23	1087 d	0 d																
1031	Approval by ArchSD	0 d	Mon 30/1/23	Mon 30/1/23	1087 d	0 d																
1032	Installation of Monitoring Stations	18 d	Tue 31/1/23	Mon 27/2/23	1087 d	0 d																
1033	Complete Monitoring Station Installation	0 d	Mon 27/2/23	Mon 27/2/23	1087 d	0 d																
1034	Major Plant & Equipment	448 d	Wed 12/4/23	Tue 2/7/24	813 d																	
1035	Temporary Work Design Submission	55 d	Wed 12/4/23	Mon 5/6/23	1231 d																	
1036	Prepare Temporary Work Design	14 d	Wed 12/4/23	Tue 2/5/23	1003 d	0 d																
1037	Submission to ArchSD	0 d	Tue 2/5/23	Tue 2/5/23	1003 d	0 d																

中國建築聯合會
CHINA STATE JOINT VENTURE

Task	 Milestone	 Inactive Milestone	 Manual Task	 Manual Summary Rollup	 Start-only	 External Tasks	 External Milestone
Critical Task	 Summary	 Inactive Summary	 Duration-only	 Manual Summary	 Finish-only	 External Task	 External Milestone

**Design & Construction of Kong Nga Po Police Training Facilities
Master Programme (MP)**

Revision : 02

ID	Task	Duration	Start	Finish	Total Slack	Time Risk Allowance	Qtr 1, 2023				Qtr 2, 2023				
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
1038	Submission Checked by ArchSD	28 d	Wed 3/5/23	Mon 5/6/23	1003 d	0 d									
1039	Approval Granted by ArchSD	0 d	Mon 5/6/23	Mon 5/6/23	1003 d	0 d									
1040	Tower Cranes	223 d	Thu 23/11/23	Tue 2/7/24	588 d										
1041	Tower Crane TC1 Installation	5 d	Thu 23/11/23	Tue 28/11/23	862 d	0 d									
1042	Tower Crane TC1 Dismantling	5 d	Wed 26/6/24	Tue 2/7/24	300 d	0 d									
1043	Material Hoists	93 d	Mon 25/3/24	Tue 25/6/24	850 d										
1044	Material Hoist MH1 Installation	5 d	Mon 25/3/24	Fri 29/3/24	765 d	0 d									
1045	Material Hoist MH1 Dismantling	5 d	Thu 20/6/24	Tue 25/6/24	696 d	0 d									
1046	Refuse Chutes & Collection Chambers	93 d	Mon 25/3/24	Tue 25/6/24	850 d										
1047	Refuse Chute RC1 Installation	5 d	Mon 25/3/24	Fri 29/3/24	765 d	0 d									
1048	Refuse Chute RC1 Dismantling	5 d	Thu 20/6/24	Tue 25/6/24	696 d	0 d									
1049	Foundation and Substructure Construction	504 d	Thu 19/1/23	Wed 5/6/24	120 d										
1050	ELS, Foundation and Substructure Works	87 d	Thu 19/1/23	Sat 15/4/23	265 d										
1051	Ground Investigation	30 d	Tue 31/1/23	Wed 1/3/23	253 d	0 d									
1052	Soil Redistribution	40 d	Thu 19/1/23	Mon 27/2/23	1334 d	0 d									
1053	Plate load test (WTF / SOTF / 25m Baffle Range and 300m Baffle Range)	45 d	Thu 2/3/23	Sat 15/4/23	1287 d	0 d									
1054	Section 1 Works	267 d	Fri 14/4/23	Fri 5/1/24	35 d										
1055	PD&TTC Block1 (Training Complex)	238 d	Fri 14/4/23	Thu 7/12/23	360 d										
1056	Pre-drilling Works	30 d	Fri 14/4/23	Sat 13/5/23	360 d	0 d									
1057	Pre-drilling works completion and issue report	7 d	Sun 14/5/23	Sat 20/5/23	360 d	0 d									
1058	Trial pile	12 d	Sun 21/5/23	Thu 1/6/23	360 d	0 d									
1059	Piling works	55 d	Fri 2/6/23	Wed 26/7/23	360 d	1 d									
1060	Piling Tests	45 d	Wed 26/7/23	Fri 8/9/23	360 d	0 d									
1061	Post drill and piling works completion	15 d	Fri 8/9/23	Fri 22/9/23	360 d	0 d									
1062	Excavation to piling cut off and bottom of pile cap	14 d	Fri 22/9/23	Thu 5/10/23	360 d	0 d									
1063	Slope Modification	45 d	Sun 16/4/23	Tue 30/5/23	431 d	0 d									
1064	Pile caps construction	52 d	Mon 2/10/23	Wed 22/11/23	360 d	1 d									
1065	Underground Drainage / Earthing Pits / Lightning Pits	21 d	Fri 3/11/23	Thu 23/11/23	1065 d	0 d									
1066	Back Filling, Waterproofing and LG/F Slab	15 d	Thu 23/11/23	Thu 7/12/23	360 d	0 d									
1067	PD&TTC Block 2-8 (Driving Blocks)	170 d	Thu 20/7/23	Fri 5/1/24	67 d										
1068	Excavation Works	35 d	Thu 20/7/23	Tue 29/8/23	56 d	0 d									
1069	Footing	84 d	Sat 12/8/23	Tue 21/11/23	56 d	1 d									
1070	Underground Drainage / Earthing Pits / Lightning Pits	90 d	Wed 30/8/23	Fri 15/12/23	56 d	1 d									
1071	Back Filling, Waterproofing and G/F Slab	90 d	Mon 18/9/23	Fri 5/1/24	56 d	1 d									
1072	WTF Block 1-4	220 d	Thu 25/5/23	Sat 30/12/23	-7 d										
1073	Excavation Works	46 d	Thu 25/5/23	Wed 19/7/23	-5 d	0 d									
1074	Footing	78 d	Mon 3/7/23	Tue 3/10/23	-5 d	1 d									
1075	Underground Drainage / Earthing Pits / Lightning Pits	100 d	Wed 26/7/23	Wed 22/11/23	-5 d	1 d									
1076	Back Filling, Waterproofing and G/F Slab	102 d	Wed 30/8/23	Sat 30/12/23	-5 d	1 d									
1077	Completion of Foundation and Substructure Works of Section 1	0 d	Fri 5/1/24	Fri 5/1/24	831 d	0 d									
1078	Section 2 Works	208 d	Sat 11/11/23	Wed 5/6/24	870 d										
1079	Baffle Range	131 d	Sat 11/11/23	Wed 20/3/24	947 d										
1080	Excavation Works	30 d	Sat 11/11/23	Fri 15/12/23	773 d	0 d									
1081	Footing	40 d	Sat 16/12/23	Fri 2/2/24	773 d	0 d									
1082	Underground Drainage	30 d	Mon 29/1/24	Sat 9/3/24	773 d	0 d									
1083	Back Filling, Waterproofing and G/F Slab	14 d	Tue 5/3/24	Wed 20/3/24	773 d	0 d									
1084	SOTF Block 1-4	208 d	Sat 11/11/23	Wed 5/6/24	870 d										
1085	Excavation Works	40 d	Sat 11/11/23	Thu 28/12/23	712 d	0 d									
1086	Footing	80 d	Mon 11/12/23	Thu 21/3/24	712 d	1 d									
1087	Underground Drainage	100 d	Fri 5/1/24	Sat 11/5/24	712 d	1 d									
1088	Back Filling, Waterproofing and G/F Slab	90 d	Fri 9/2/24	Wed 5/6/24	712 d	1 d									
1089	Completion of Foundation and Substructure Works of Section 1	0 d	Wed 5/6/24	Wed 5/6/24	712 d	0 d									
1090	Superstructure Construction	508 d	Wed 14/6/23	Sat 2/11/24	107 d										
1091	Section 1 Works	402 d	Wed 14/6/23	Fri 19/7/24	107 d										
1092	PD&TTC Block 1 (Cast in-situ + recess opening method)	402 d	Wed 14/6/23	Fri 19/7/24	437 d										
1093	Embed of Curtain Wall Fabrication and Dilevery	90 d	Wed 14/6/23	Mon 11/9/23	437 d	1 d									
1094	Subletting and Materials Ordering	90 d	Thu 13/7/23	Tue 10/10/23	408 d	1 d									
1095	G/F	35 d	Tue 28/11/23	Mon 1/1/24	360 d	0 d									



Legend for Gantt chart symbols:

- Task: Green bar
- Critical Task: Red bar
- Milestone: Diamond
- Summary: Thick black bar
- Inactive Milestone: Diamond with slash
- Inactive Summary: Thick grey bar
- Manual Task: Thin grey bar
- Manual Summary Rollup: Diamond with slash
- Manual Summary: Thin black bar
- Start-only: Thin black bar at start
- Finish-only: Thin black bar at end
- External Tasks: Thin red bar
- External Milestone: Diamond with slash

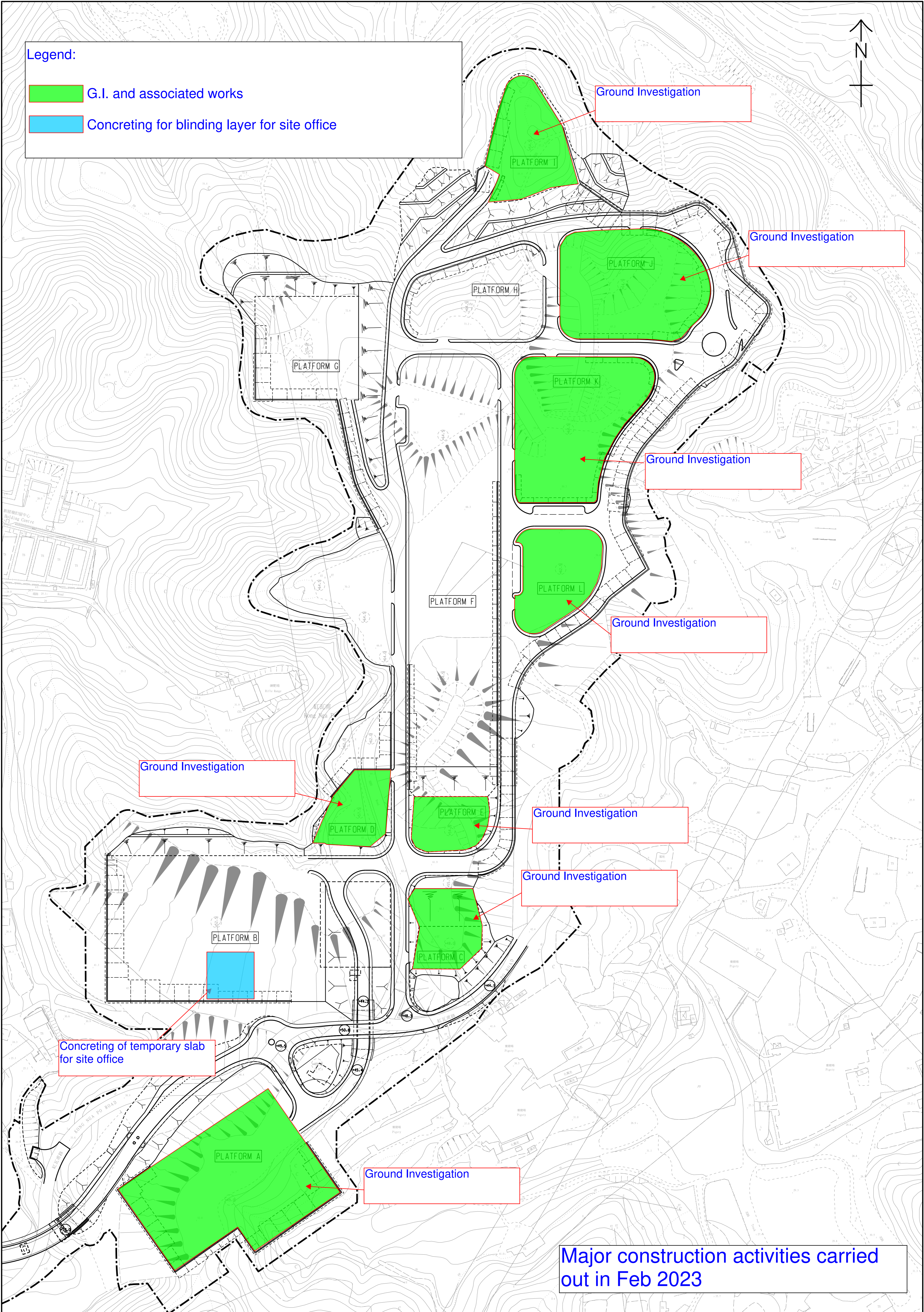
Legend:



G.I. and associated works



Concreting for blinding layer for site office



Ground Investigation

Ground Investigation

Ground Investigation

Ground Investigation

Ground Investigation

Ground Investigation




Ground Investigation

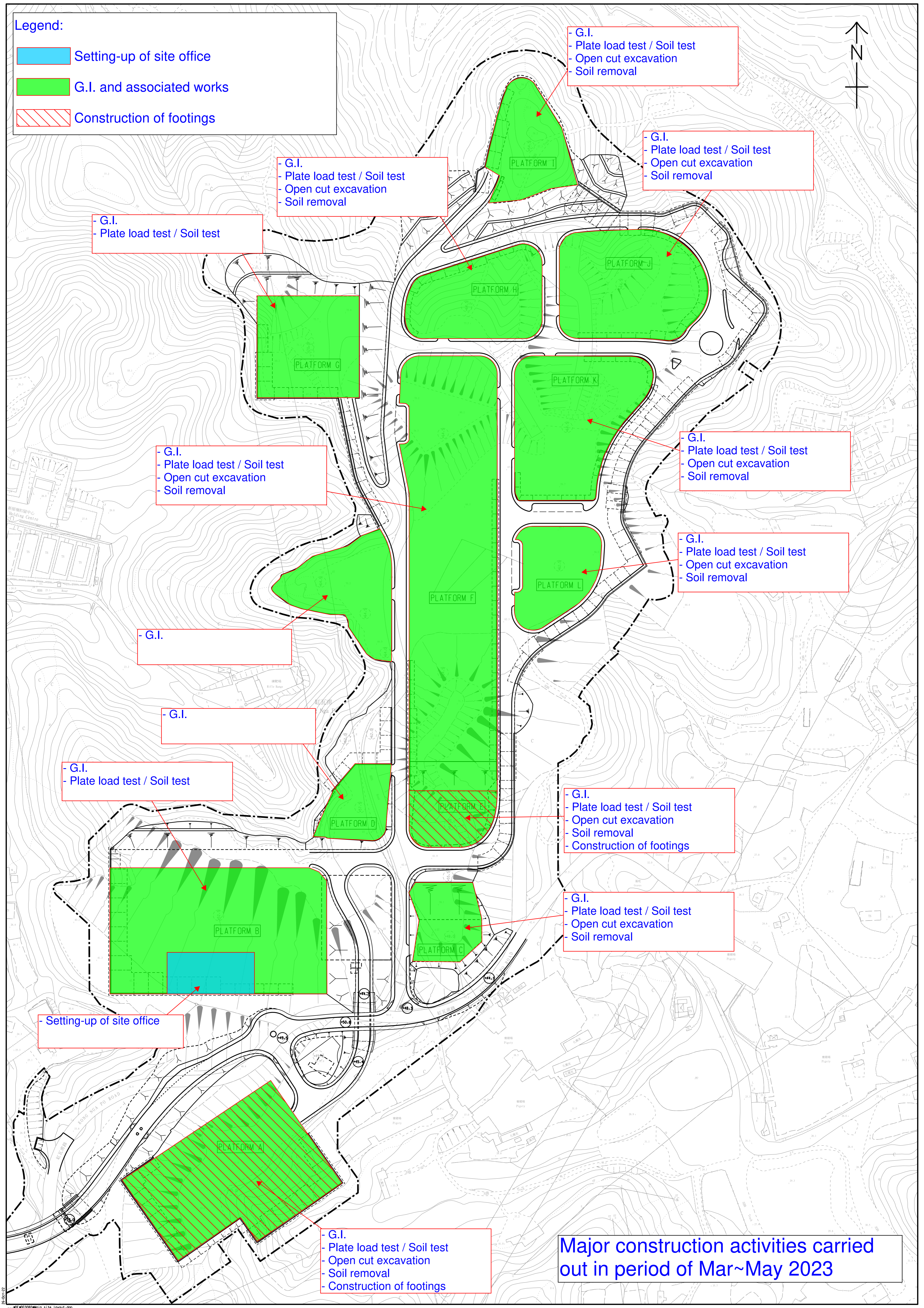
Concreting of temporary slab for site office

Ground Investigation

Major construction activities carried out in Feb 2023

Legend:

-  Setting-up of site office
-  G.I. and associated works
-  Construction of footings



- G.I.
- Plate load test / Soil test

- G.I.
- Plate load test / Soil test
- Open cut excavation
- Soil removal

- G.I.
- Plate load test / Soil test
- Open cut excavation
- Soil removal

- G.I.
- Plate load test / Soil test
- Open cut excavation
- Soil removal

PLATFORM G

PLATFORM H

PLATFORM J

- G.I.
- Plate load test / Soil test
- Open cut excavation
- Soil removal

PLATFORM K

- G.I.
- Plate load test / Soil test
- Open cut excavation
- Soil removal

PLATFORM I

PLATFORM F

PLATFORM L

- G.I.
- Plate load test / Soil test
- Open cut excavation
- Soil removal

- G.I.

- G.I.

- G.I.
- Plate load test / Soil test

PLATFORM D

PLATFORM E

- G.I.
- Plate load test / Soil test
- Open cut excavation
- Soil removal
- Construction of footings

PLATFORM B

PLATFORM C

- G.I.
- Plate load test / Soil test
- Open cut excavation
- Soil removal

- Setting-up of site office

PLATFORM A

- G.I.
- Plate load test / Soil test
- Open cut excavation
- Soil removal
- Construction of footings

Major construction activities carried out in period of Mar~May 2023

Design and Construction of Kong Nga Po Police Training Facilities
Proactive Environmental Protection Proforma

Working Period: March to May 2023

Ref*	Proposed Construction Method	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
EIA 3.9.1; EM&A Log 2.2	Ground Investigation	Kong Nga Po Site	Air	<ul style="list-style-type: none"> • Regular inspection and maintenance of plant and equipment in good condition • Regularly clean up stockpiles and debris to avoid accumulation of materials • Dusty materials exceeding 20 bags shall be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting.
EIA 4.4.6; EM&A Log 3.2			Noise Control	<ul style="list-style-type: none"> • Regular inspection and maintenance of plant & equipment in good condition • Enclose the noisy part of machineries with noise enclosure • Adopt of Quality Powered Mechanical Equipment (QPME) if possible
Working in Restricted Hours			<ul style="list-style-type: none"> • Valid construction noise permit should be obtained and displayed on site • In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out 	

EIA 5.6.1.2; EM&A Log 4.2			Water Pollution Control	<ul style="list-style-type: none"> Cover the stockpiles of construction materials to reduce the potential for water pollution Provide wastewater treatment facilities prior to discharge of wastewater
EIA 7.5.1.4; EM&A Log			Chemical Waste	<ul style="list-style-type: none"> Drip tray and chemical spillage kit shall be provided on site
EIA 9.7.1 and EM&A Log 8.3			Ecology Concern	<ul style="list-style-type: none"> Provide training to frontline workers for the conservative species Provision of protective fence for the conservative species Regular inspection for concerned vegetation and conservative species
EIA Table 10.11; EM&A Table 9.1			Landscape and Visual Impact	<ul style="list-style-type: none"> Preservation of existing trees will be undertaken in accordance with DEVB TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management Arrangement Implement temporary traffic arrangement which control construction area to minimize landscape and visual impacts
EIA 3.9.1; EM&A Log 2.2	Open cut excavation	Kong Nga Po Site	Dust impact from excavation activities and earth moving	<ul style="list-style-type: none"> Use of regular water spraying (once every 1.25 hours or 8 times per day) at all active works area exposed site surfaces and unpaved roads, particularly during dry weather Deploy water bowser for regular water spraying to enhance dust suppression

				<ul style="list-style-type: none"> • Manual water spraying for dusty operation where inaccessible by water bowser • Speed control of site transportation • Stockpile of dusty materials will be covered by tarpaulin sheets to avoid wind-blown dust • Vehicles used for transporting dusty materials/spoils will be covered by mechanical cover before leaving the site • Wheel washing facilities will be provided and cleaning the wheel of all vehicles before leaving the site
EIA 4.4.6; EM&A Log 3.2			Noise Control	<ul style="list-style-type: none"> • Regular inspection and maintenance of plant & equipment in good condition • Enclose the noisy part of machineries with noise enclosure • Adopt of Quality Powered Mechanical Equipment (QPME) if possible
			Working in Restricted Hours	<ul style="list-style-type: none"> • Valid construction noise permit should be obtained and displayed on site • In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out
EIA 5.6.1.2; EM&A Log 4.2			Water Pollution Control	<ul style="list-style-type: none"> • Cover the stockpiles of construction materials to reduce the potential for water pollution • Provide wastewater treatment facilities prior to discharge of wastewater

				<ul style="list-style-type: none"> • Regular inspection and maintenance of wastewater treatment facilities • Wastewater pumped out of the excavation areas will be treated to remove suspended solids prior to discharge • Hard paving or well-compact of main haul road to minimize washout of soil • Wheels of all vehicles and plants will be cleaned before leaving the work areas to remove sediment, soil and debris from the tracked. The wastewater will be treated and reused on site or discharged.
EIA 7.5.1.1 & 7.5.1.2; EM&A Log 6.2			Waste Generation	<ul style="list-style-type: none"> • Training of site personnel in proper waste management and chemical handling procedures • Proper storage and sorting of excavated inert materials to maximize on site reuse for backfilling • Surplus inert C&D materials will be disposed of at designated Government's PFRF.
EIA 7.5.1.4; EM&A Log 6.2			Chemical Waste	<ul style="list-style-type: none"> • Chemical waste should be stored at chemical waste container and collected by a licensed collector to transport and dispose of at the approved Chemical Waste Treatment Centre • Drip tray and chemical spillage kit will be provided on site
EIA 9.7.1 and EM&A Log 8.3			Ecology Concern	<ul style="list-style-type: none"> • Provide training to frontline workers for the conservative species

				<ul style="list-style-type: none"> • Provision of protective fence for the conservative species • Regular inspection for concerned vegetation and conservative species
EIA Table 10.11; EM&A Table 9.1			Landscape and Visual Impact	<ul style="list-style-type: none"> • Preservation of existing trees will be undertaken in accordance with DEVB TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management Arrangement • Restrict construction area to minimize the impact on existing retained trees
EIA 3.9.1; EM&A Log 2.2	Soil Removal	Kong Nga Po Site	Dust impact from excavation activities and earth moving	<ul style="list-style-type: none"> • Use of regular water spraying (once every 1.25 hours or 8 times per day) at all active works area exposed site surfaces and unpaved roads, particularly during dry weather • Water spraying during loading and unloading of excavated materials • Vehicles used for transporting dusty materials/spoils will be covered by mechanical cover before leaving the site • Deploy water bowser for regular water spraying to enhance dust suppression • Speed control of site transportation • Stockpile of dusty materials will be covered by tarpaulin sheets to avoid wind-blown dust • Wheel washing facilities will be provided and cleaning the wheel of all vehicles before leaving the site

EIA 4.4.6; EM&A Log 3.2			Noise Control	<ul style="list-style-type: none"> • Regular inspection and maintenance of plant & equipment in good condition • Enclose the noisy part of machineries with noise enclosure • Adopt of Quality Powered Mechanical Equipment (QPME) if possible
EIA 5.6.1.2; EM&A Log 4.2			Working in Restricted Hours	<ul style="list-style-type: none"> • Valid construction noise permit should be obtained and displayed on site • In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out
EIA 7.5.1.1 & 7.5.1.2; EM&A Log 6.2			Water Pollution Control	<ul style="list-style-type: none"> • Cover the stockpiles of excavated materials to reduce the potential for water pollution • Provide wastewater treatment facilities prior to discharge of wastewater • Regular inspection and maintenance of wastewater treatment facilities • Wheels of all vehicles and plants will be cleaned before leaving the work areas to remove sediment, soil and debris from the tracked. The wastewater will be treated and reused on site or discharged.
			Waste Generation	<ul style="list-style-type: none"> • Training of site personnel in proper waste management and chemical handling procedures • Proper storage and sorting of excavated inert materials to

				<p>maximize on site reuse for backfilling</p> <ul style="list-style-type: none"> Surplus inert C&D materials will be disposed of at designated Government's PFRF.
EIA 7.5.1.4; EM&A Log 6.2			Chemical Waste	<ul style="list-style-type: none"> Chemical waste should be stored at chemical waste container and collected by a licensed collector to transport and dispose of at the approved Chemical Waste Treatment Centre Drip tray and chemical spillage kit will be provided on site
EIA 9.7.1 and EM&A Log 8.3			Ecology Concern	<ul style="list-style-type: none"> Provide training to frontline workers for the conservative species Provision of protective fence for the conservative species Regular inspection for concerned vegetation and conservative species
EIA Table 10.11; EM&A Table 9.1			Landscape and Visual Impact	<ul style="list-style-type: none"> Preservation of existing trees will be undertaken in accordance with DEVB TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management Arrangement Restrict construction area to minimize the impact on existing retained trees
EIA 3.9.1; EM&A Log 2.2	Construction of footings	Kong Nga Po Site	Air	<ul style="list-style-type: none"> Regular inspection and maintenance of plant and equipment in good condition Regularly clean up stockpiles and debris to avoid accumulation of materials Dusty materials exceeding 20 bags shall be stored in area

				sheltered on top and the three sides or covered entirely by impervious sheeting.
EIA 4.4.6; EM&A Log 3.2			Noise Control	<ul style="list-style-type: none"> Regular inspection and maintenance of plant & equipment in good condition Enclose the noisy part of machineries with noise enclosure Adopt of Quality Powered Mechanical Equipment (QPME) if possible
			Working in Restricted Hours	<ul style="list-style-type: none"> Valid construction noise permit should be obtained and displayed on site In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out
EIA 5.6.1.2; EM&A Log 4.2			Water Pollution Control	<ul style="list-style-type: none"> Wheels of all vehicles and plants will be cleaned before leaving the work areas to remove sediment, soil and debris from the tracked. The wastewater will be treated and reused on site or discharged. Designated location for residual concrete washout Provide wastewater treatment facilities prior to discharge of wastewater
EIA 7.5.1.4; EM&A Log			Chemical Waste	<ul style="list-style-type: none"> Drip tray and chemical spillage kit shall be provided on site
EIA 9.7.1 and EM&A Log 8.3			Ecology Concern	<ul style="list-style-type: none"> Provide training to frontline workers for the conservative species

				<ul style="list-style-type: none"> • Provision of protective fence for the conservative species • Regular inspection for concerned vegetation and conservative species
EIA Table 10.11; EM&A Table 9.1			Landscape and Visual Impact	<ul style="list-style-type: none"> • Preservation of existing trees will be undertaken in accordance with DEVB TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management Arrangement • Implement temporary traffic arrangement which control construction area to minimize landscape and visual impacts

**EIA Ref/ EM&A Log/ Design Document Ref*

***Details of equipment, vehicles, plants, processes, technologies for the construction method*

**APPENDIX B
ACTION AND LIMIT LEVELS**

Appendix B - Action and Limit Levels**Table B-1 Action and Limit Levels for 1-hour TSP**

Monitoring station	Action Level (ug/m ³)	Limit Level (ug/m ³)
AM1	308	500
AM2	311	

TableB-2 Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hours on normal weekdays	When one documented complaint is received	75 dB(A)

Noted:

If works are to be carried during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

**APPENDIX C
COPIES OF CALIBRATION
CERTIFICATES**

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	37675B
Date of Issue:	2023-01-09
Date Received:	2023-01-06
Date Tested:	2023-01-06
Date Completed:	2023-01-09
Next Due Date:	2023-03-08

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23809
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-03

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.101
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PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TSP - Total Suspended Particulates (1 hr Dust Meter) Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-03	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23809	2203
Calibration Date:	6-Jan-23	6-Jan-23
Location:	Wellab Office (Calibration Room)	

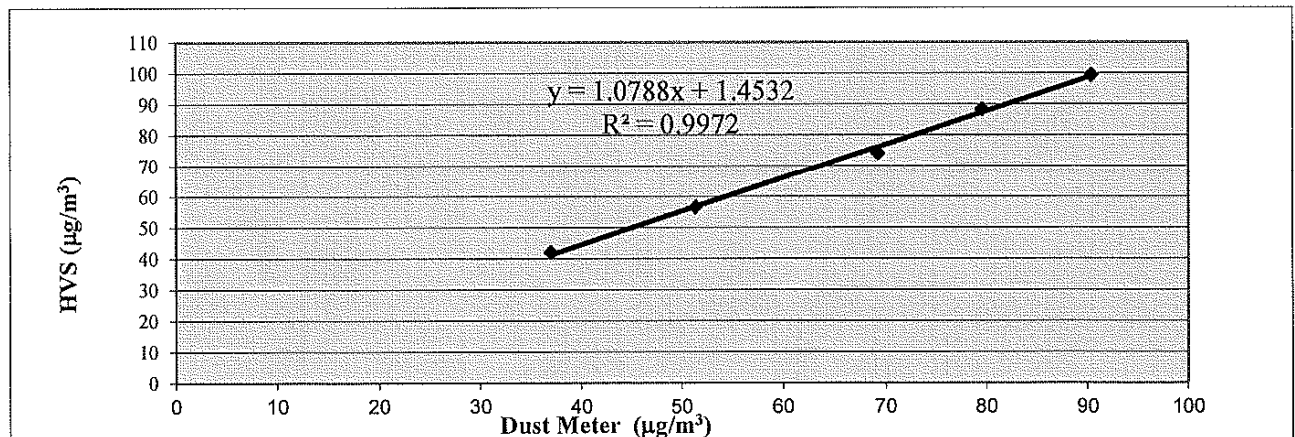
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	37	42
2	51	57
3	69	74
4	80	88
5	90	99
Average	65.5	72.2

By Linear Regression of Y on X
 Slope, $m_w =$ 1.0788 Intercept, $b_w =$ 1.4532
 Correlation coefficient* = 0.9986

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	72.2
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	65.5
Measuring time, (min)	60

Set Correlation Factor, SCF
 $\text{SCF} = [K = \text{High Volume Sampler} / \text{Dust Meter, } (\mu\text{g}/\text{m}^3)]$ 1.101



QC Reviewer: LEE MAN HEI Signature: hei Date: 6/1/2023

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	37675C
Date of Issue:	2023-01-09
Date Received:	2023-01-06
Date Tested:	2023-01-06
Date Completed:	2023-01-09
Next Due Date:	2023-03-08

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23810
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-04

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.139
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PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
General Manager

TSP - Total Suspended Particulates (1 hr Dust Meter) Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-04	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23810	2203
Calibration Date:	6-Jan-23	6-Jan-23
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	35	42
2	51	57
3	65	74
4	78	88
5	89	99
Average	63.3	72.2

By Linear Regression of Y on X

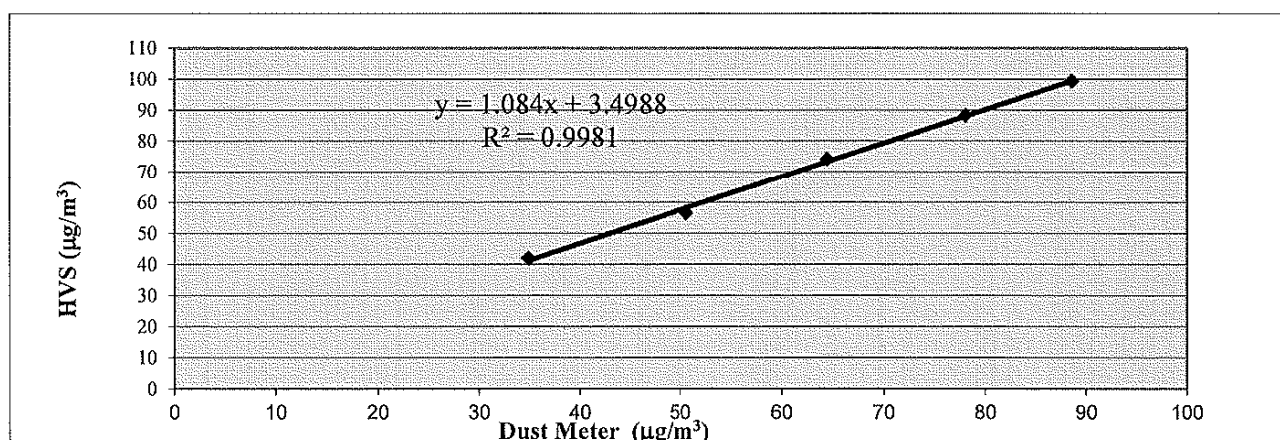
Slope, $m_w =$ 1.0840

Intercept, $b_w =$ 3.4988

Correlation coefficient* = 0.9991

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	72.2
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	63.3
Measuring time, (min)	60
Set Correlation Factor, SCF	
SCF = [$K = \text{High Volume Sampler} / \text{Dust Meter}, (\mu\text{g}/\text{m}^3)$]	<u>1.139</u>



QC Reviewer:

LEE MAN YEE

Signature:

hi

Date:

6/1/2023

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	37674B
Date of Issue:	2023-01-03
Date Received:	2022-12-30
Date Tested:	2022-12-30
Date Completed:	2023-01-03
Next Due Date:	2023-03-02

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24479
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-08

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.111
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PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TSP - Total Suspended Particulates (1 hr Dust Meter) Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-08	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24479	2203
Calibration Date:	30-Dec-22	30-Dec-22
Location:	Wellab Office (Calibration Room)	

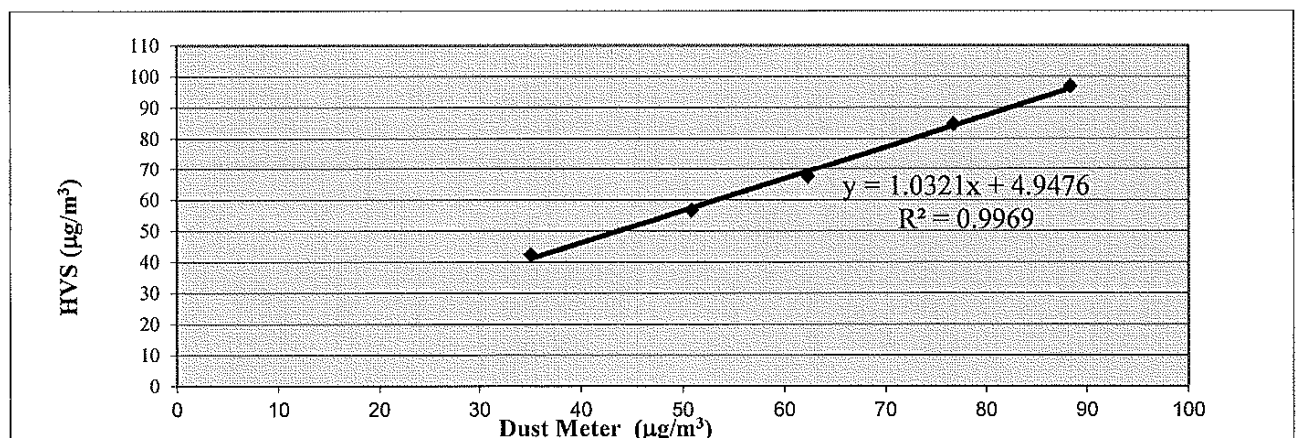
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	35	42
2	51	57
3	62	68
4	77	85
5	88	97
Average	62.7	69.7

By Linear Regression of Y on X
 Slope , mw = 1.0321 Intercept, bw = 4.9476
 Correlation coefficient* = 0.9985

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	69.7
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	62.7
Measuring time, (min)	60

Set Correlation Factor , SCF
 SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.111



QC Reviewer: Lab Mon LER Signature: hi Date: 30/12/2022

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	37858B
Date of Issue:	2023-02-27
Date Received:	2023-02-25
Date Tested:	2023-02-25
Date Completed:	2023-02-27
Next Due Date:	2023-04-26

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24479
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-08

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.156
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PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TSP - Total Suspended Particulates (1 hr Dust Meter) Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-08	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24479	2203
Calibration Date:	25-Feb-23	25-Feb-23
Location:	Wellab Office (Calibration Room)	

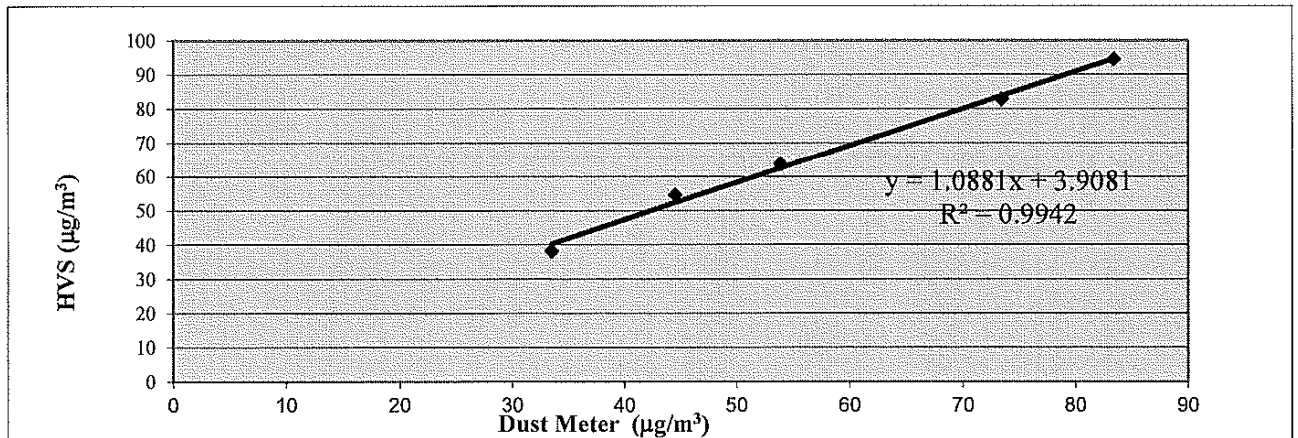
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	34	38
2	45	55
3	54	64
4	74	83
5	83	95
Average	57.8	66.8

By Linear Regression of Y on X
 Slope, mw = 1.0881 Intercept, bw = 3.9081
 Correlation coefficient* = 0.9971

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	66.8
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	57.8
Measuring time, (min)	60

Set Correlation Factor, SCF
 SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.156



QC Reviewer: ljk MWS HED Signature: ker Date: 26/2/2023

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	37674D
Date of Issue:	2023-01-03
Date Received:	2022-12-30
Date Tested:	2022-12-30
Date Completed:	2023-01-03
Next Due Date:	2023-03-02

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24478
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-10

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.102
-------------------------	-------

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TSP - Total Suspended Particulates (1 hr Dust Meter) Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-10	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24478	2203
Calibration Date:	30-Dec-22	30-Dec-22
Location:	Wellab Office (Calibration Room)	

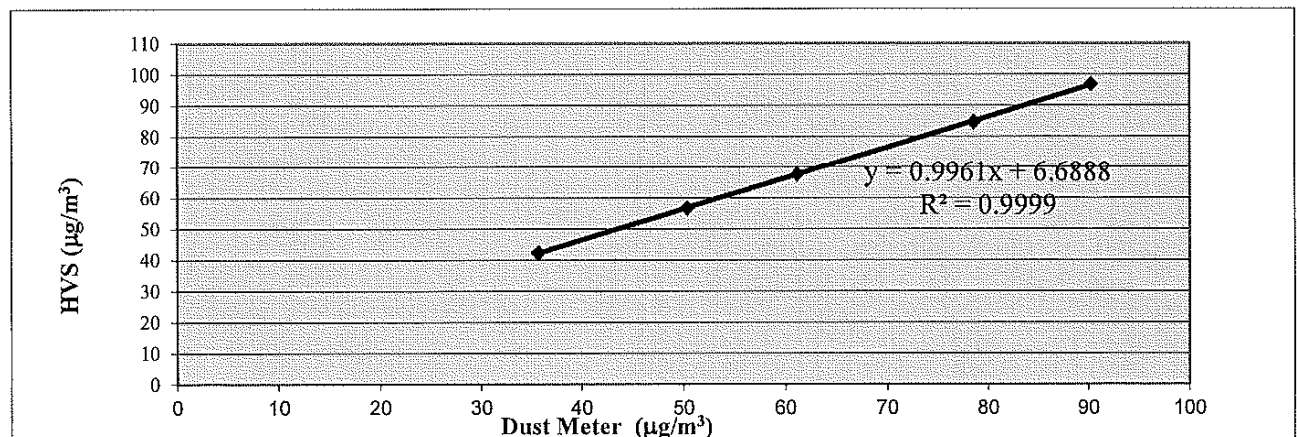
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	36	42
2	50	57
3	61	68
4	79	85
5	90	97
Average	63.2	69.7

By Linear Regression of Y on X
 Slope, mw = 0.9961 Intercept, bw = 6.6888
 Correlation coefficient* = 1.0000

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	69.7
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	63.2
Measuring time, (min)	60

Set Correlation Factor, SCF
 SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.102



QC Reviewer: Lee Man Hee Signature: Lee Date: 30/12/22

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

File No. Cal./221230

Equipment No.: WA-12-09
Model No. TE-5170
Operator: HL

Serial No. 2203
Cal. Date: 30-Dec-22

Ambient Condition			
Temperature, Ta (K)	290.2	Pressure, Pa (mmHg)	769.7

Orifice Transfer Standard Information					
Serial No.	2896	Slope, mc	0.0588	Intercept, bc	-0.01030
Last Calibration Date:	20-Jan-22	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	20-Jan-23	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)] ^{1/2} Y-axis
1	12.5	3.61	61.54	7.9	2.87
2	9.9	3.21	54.79	6.2	2.54
3	8.6	2.99	51.08	5.4	2.37
4	5.4	2.37	40.51	3.7	1.96
5	3.7	1.96	33.56	2.5	1.61

By Linear Regression of Y on X

Slope , mw = 0.0438 Intercept, bw : 0.1564

Correlation coefficient* = 0.9989

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = (mw x Qstd + bw)² x (760 / Pa) x (Ta / 298) = 3.99

Remarks: _____

Conducted by: <u>Lit Man Hei</u>	Signature: <u>[Signature]</u>	Date: <u>30/12/2022</u>
Checked by: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date: <u>30/12/2022</u>

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. Cal./230106

Equipment No.: WA-12-09
 Model No. TE-5170
 Operator: HL

Serial No. 2203
 Cal. Date: 6-Jan-23

Ambient Condition			
Temperature, Ta (K)	293.2	Pressure, Pa (mmHg)	769.1

Orifice Transfer Standard Information					
Serial No.	2896	Slope, mc	0.0588	Intercept, bc	-0.01030
Last Calibration Date:	20-Jan-22	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	20-Jan-23	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)] ^{1/2} Y-axis
1	12.1	3.53	60.22	7.7	2.81
2	9.8	3.17	54.21	6.2	2.53
3	8.7	2.99	51.09	5.5	2.38
4	5.6	2.40	41.02	3.6	1.92
5	3.5	1.90	32.47	2.3	1.54

By Linear Regression of Y on X

Slope, mw = 0.0458

Intercept, bw : 0.0461

Correlation coefficient* = 0.9999

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 3.95

Remarks: _____

Conducted by: LEE MAN HEI
 Checked by: lh ka ch-

Signature: Lee Man Hei
 Signature: Choi Ka Wai

Date: 5/1/2023
 Date: 6/1/23

**High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET**

File No. Cal./230225

Equipment No.: WA-12-09
 Model No. TE-5170
 Operator: HL

Serial No. 2203
 Cal. Date: 25-Feb-23

Ambient Condition			
Temperature, Ta (K)	291.4	Pressure, Pa (mmHg)	767.4

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04292
Last Calibration Date:	16-Jan-23	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	16-Jan-24	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X-axis	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	11.6	3.46	61.00	7.9	2.86
2	9.2	3.08	54.41	6.4	2.57
3	8.6	2.98	52.63	5.7	2.43
4	5.7	2.43	42.98	3.8	1.98
5	3.1	1.79	31.90	2.3	1.54

By Linear Regression of Y on X

Slope, mw = 0.0456

Intercept, bw = 0.0604

Correlation coefficient* = 0.9979

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 3.95

Remarks: _____

Conducted by: HL PAV HAV
 Checked by: HL CA JLV

Signature: [Signature]
 Signature: [Signature]

Date: 25/2/2023
 Date: 25/2/23

Certificate of Calibration

Calibration Certification Information			
Cal. Date: January 20, 2022	Rootsmeter S/N: 438320	Ta: 293	°K
Operator: Jim Tisch		Pa: 759.7	mm Hg
Calibration Model #: TE-5025A	Calibrator S/N: 2896		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4610	3.2	2.00
2	3	4	1	1.0360	6.4	4.00
3	5	6	1	0.9190	7.9	5.00
4	7	8	1	0.8780	8.8	5.50
5	9	10	1	0.7250	12.7	8.00

Data Tabulation					
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H (Ta/Pa)}$ (y-axis)
1.0124	0.6929	1.4260	0.9958	0.6816	0.8783
1.0081	0.9731	2.0166	0.9916	0.9571	1.2420
1.0061	1.0948	2.2546	0.9896	1.0768	1.3887
1.0049	1.1445	2.3647	0.9884	1.1258	1.4564
0.9997	1.3789	2.8519	0.9833	1.3563	1.7565
QSTD	m= 2.07510		QA	m= 1.29939	
	b= -0.01030			b= -0.00634	
	r= 0.99995			r= 0.99995	

Calculations	
Vstd= $\Delta Vol \left(\frac{Pa - \Delta P}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)$	Va= $\Delta Vol \left(\frac{Pa - \Delta P}{Pa} \right)$
Qstd= $Vstd / \Delta Time$	Qa= $Va / \Delta Time$
For subsequent flow rate calculations:	
Qstd= $1/m \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right)$	Qa= $1/m \left(\left(\sqrt{\Delta H (Ta/Pa)} \right) - b \right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg
Key	
ΔH: calibrator manometer reading (in H2O)	
ΔP: rootsmeter manometer reading (mm Hg)	
Ta: actual absolute temperature (°K)	
Pa: actual barometric pressure (mm Hg)	
b: intercept	
m: slope	

RECALIBRATION
US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Certificate of Calibration

Calibration Certification Information			
Cal. Date: January 16, 2023	Rootsmeter S/N: 438320	Ta: 293	°K
Operator: Jim Tisch		Pa: 749.0	mm Hg
Calibration Model #: TE-5025A	Calibrator S/N: 0993		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.3860	3.2	2.00
2	3	4	1	0.9880	6.4	4.00
3	5	6	1	0.8810	8.0	5.00
4	7	8	1	0.8410	8.8	5.50
5	9	10	1	0.6950	12.8	8.00

Data Tabulation					
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)
0.9981	0.7201	1.4159	0.9957	0.7184	0.8845
0.9938	1.0059	2.0024	0.9915	1.0035	1.2509
0.9917	1.1257	2.2388	0.9893	1.1230	1.3985
0.9906	1.1779	2.3480	0.9883	1.1751	1.4668
0.9853	1.4177	2.8318	0.9829	1.4143	1.7690
QSTD	m=	2.02881	QA	m=	1.27041
	b=	-0.04292		b=	-0.02681
	r=	0.99998		r=	0.99998

Calculations	
Vstd= $\Delta Vol \left(\frac{Pa - \Delta P}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)$	Va= $\Delta Vol \left(\frac{Pa - \Delta P}{Pa} \right)$
Qstd= Vstd/ΔTime	Qa= Va/ΔTime
For subsequent flow rate calculations:	
Qstd= $1/m \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right)$	Qa= $1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg
Key	
ΔH: calibrator manometer reading (in H2O)	
ΔP: rootsmeter manometer reading (mm Hg)	
Ta: actual absolute temperature (°K)	
Pa: actual barometric pressure (mm Hg)	
b: intercept	
m: slope	

RECALIBRATION
US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.: 36405A
Date of Issue: 2022-03-07
Date Received: 2022-03-04
Date Tested: 2022-03-04
Date Completed: 2022-03-07
Next Due Date: 2023-03-06

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description : Sound Level Meter
Manufacturer : BSWA
Model No. : BSWA 308
Serial No. : 580004
Equipment No. : WN-01-02

Test conditions:

Room Temperature : 17-22 degree Celsius
Relative Humidity : 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	36405E
Date of Issue:	2022-03-07
Date Received:	2022-03-04
Date Tested:	2022-03-04
Date Completed:	2022-03-07
Next Due Date:	2023-03-06

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description	: Sound Level Meter
Manufacturer	: BSWA
Model No.	: BSWA 308
Serial No.	: 580008
Equipment No.	: WN-01-06

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	36481
Date of Issue:	2022-03-14
Date Received:	2022-03-11
Date Tested:	2022-03-11
Date Completed:	2022-03-14
Next Due Date:	2023-03-13

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description	: Sound Level Meter
Manufacturer	: BSWA
Model No.	: BSWA 308
Serial No.	: 580011
Equipment No.	: WN-01-08

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	36481A
Date of Issue:	2022-03-14
Date Received:	2022-03-11
Date Tested:	2022-03-11
Date Completed:	2022-03-14
Next Due Date:	2023-03-13

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description	: Sound Level Meter
Manufacturer	: BSWA
Model No.	: BSWA 308
Serial No.	: 580013
Equipment No.	: WN-01-09

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	36481B
Date of Issue:	2022-03-14
Date Received:	2022-03-11
Date Tested:	2022-03-11
Date Completed:	2022-03-14
Next Due Date:	2023-03-13

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description	: Sound Level Meter
Manufacturer	: BSWA
Model No.	: BSWA 308
Serial No.	: 580017
Equipment No.	: WN-01-10

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	37163
Date of Issue:	2022-10-02
Date Received:	2022-09-30
Date Tested:	2022-10-02
Date Completed:	2022-10-02
Next Due Date:	2023-10-01

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24803
Equipment No.	: N-09-03

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	37018A
Date of Issue:	2022-08-22
Date Received:	2022-08-19
Date Tested:	2022-08-19
Date Completed:	2022-08-22
Next Due Date:	2023-08-21

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24791
Equipment No.	: N-09-04

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1801, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	37163A
Date of Issue:	2022-10-02
Date Received:	2022-09-30
Date Tested:	2022-10-02
Date Completed:	2022-10-02
Next Due Date:	2023-10-01

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24780
Equipment No.	: N-09-05

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
General Manager

**APPENDIX D
ENVIRONMENTAL MONITORING
SCHEDULES**

Service Contract No. NDO 07/2019
Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Impact Air Quality, Noise and Ecological Monitoring Schedule (February 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Feb	2-Feb	3-Feb	4-Feb
				1 hr TSP X3 AM1 Noise NM1 to NM7, NM10		
5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb
	1 hr TSP X3 AM2 Noise NM8 to NM9, NM11 to NM14		1 hr TSP X3 AM1 Noise NM1 to NM7, NM10		1 hr TSP X3 AM2	
12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb
		1 hr TSP X3 AM1 Noise NM1 to NM7, NM10		1 hr TSP X3 AM2 Noise NM8 to NM9, NM11 to NM14		
19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb
	1 hr TSP X3 AM1 Noise NM1 to NM7, NM10		1 hr TSP X3 AM2 Noise NM8 to NM9, NM11 to NM14		1 hr TSP X3 AM1 Monitoring of Flora Species of Conservation Interest	
26-Feb	27-Feb	28-Feb				
		1 hr TSP X3 AM2 Noise NM8 to NM9, NM11 to NM14				

Air Quality Monitoring Station(s)
AM1 - Village House, Kong Nga Po
AM2 - Village House, Kong Nga Po

Noise Monitoring Station(s)

NM1 - Village House, Sha Ling	NM8 - Village House, Sha Ling
NM2 - Village House, Sha Ling	NM9 - Village House, Kong Nga Po
NM3 - Village House No. 248, Sha Ling	NM10 - Village House, Kong Nga Po
NM4 - Village House, Sha Ling	NM11 - Village House, Kong Nga Po
NM5 - Village House No. 270, Sha Ling	NM12 - Village House, Kong Nga Po
NM6 - Village House, Sha Ling	NM13 - Village House, Kong Nga Po
NM7 - Village House, Sha Ling	NM14 - Village House, near Man Kam To Road

Service Contract No. NDO 07/2019
Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Tentative Impact Air Quality and Noise Monitoring Schedule (March 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Mar	2-Mar	3-Mar	4-Mar
				1 hr TSP X3 AM1 <u>Noise</u> NM1 to NM7, NM10		
5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar
	1 hr TSP X3 AM2 <u>Noise</u> NM1 to NM7, NM10		1 hr TSP X3 AM1 <u>Noise</u> NM1 to NM7, NM10		1 hr TSP X3 AM2 <u>Noise</u> NM8 to NM9, NM11 to NM14	
12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar
		1 hr TSP X3 AM1 <u>Noise</u> NM1 to NM7, NM10		1 hr TSP X3 AM2 <u>Noise</u> NM8 to NM9, NM11 to NM14		
19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar
	1 hr TSP X3 AM1 <u>Noise</u> NM1 to NM7, NM10		1 hr TSP X3 AM2 <u>Noise</u> NM8 to NM9, NM11 to NM14		1 hr TSP X3 AM1	
26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	
		1 hr TSP X3 AM2 <u>Noise</u> NM8 to NM9, NM11 to NM14		1 hr TSP X3 AM1 <u>Noise</u> NM1 to NM7, NM10		

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Air Quality Monitoring Station(s)

AM1 - Village House, Kong Nga Po
 AM2 - Village House, Kong Nga Po

Noise Monitoring Station(s)

NM1 - Village House, Sha Ling	NM8 - Village House, Sha Ling
NM2 - Village House, Sha Ling	NM9 - Village House, Kong Nga Po
NM3 - Village House No. 248, Sha Ling	NM10 - Village House, Kong Nga Po
NM4 - Village House, Sha Ling	NM11 - Village House, Kong Nga Po
NM5 - Village House No. 270, Sha Ling	NM12 - Village House, Kong Nga Po
NM6 - Village House, Sha Ling	NM13 - Village House, Kong Nga Po
NM7 - Village House, Sha Ling	NM14 - Village House, near Man Kam To Road

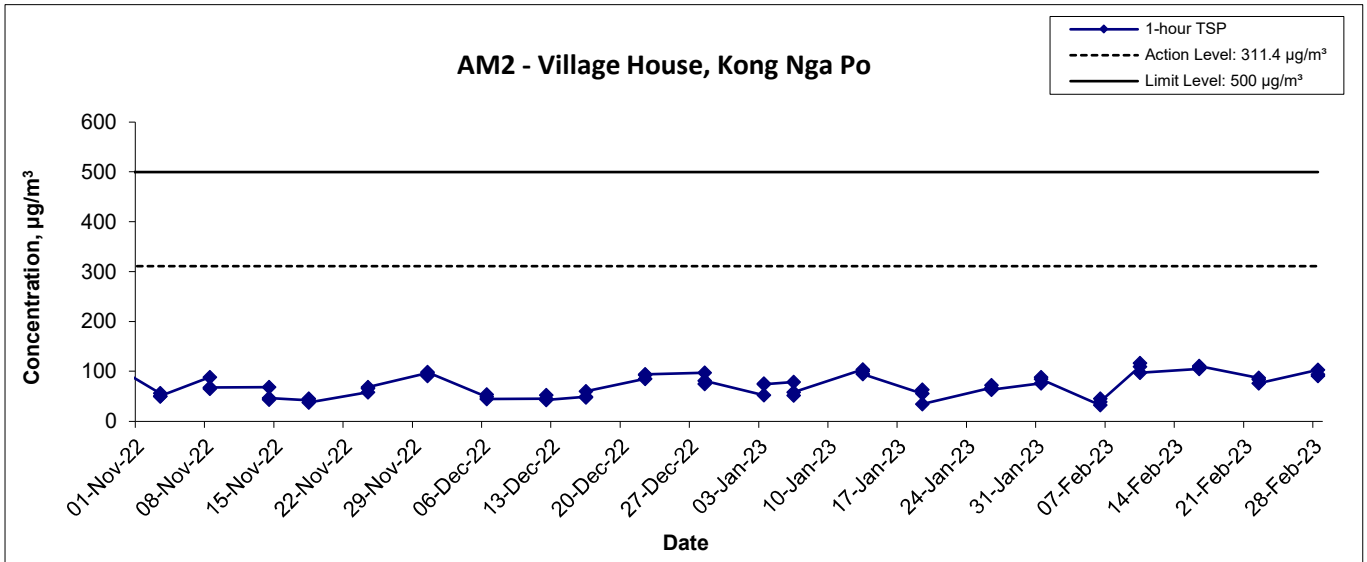
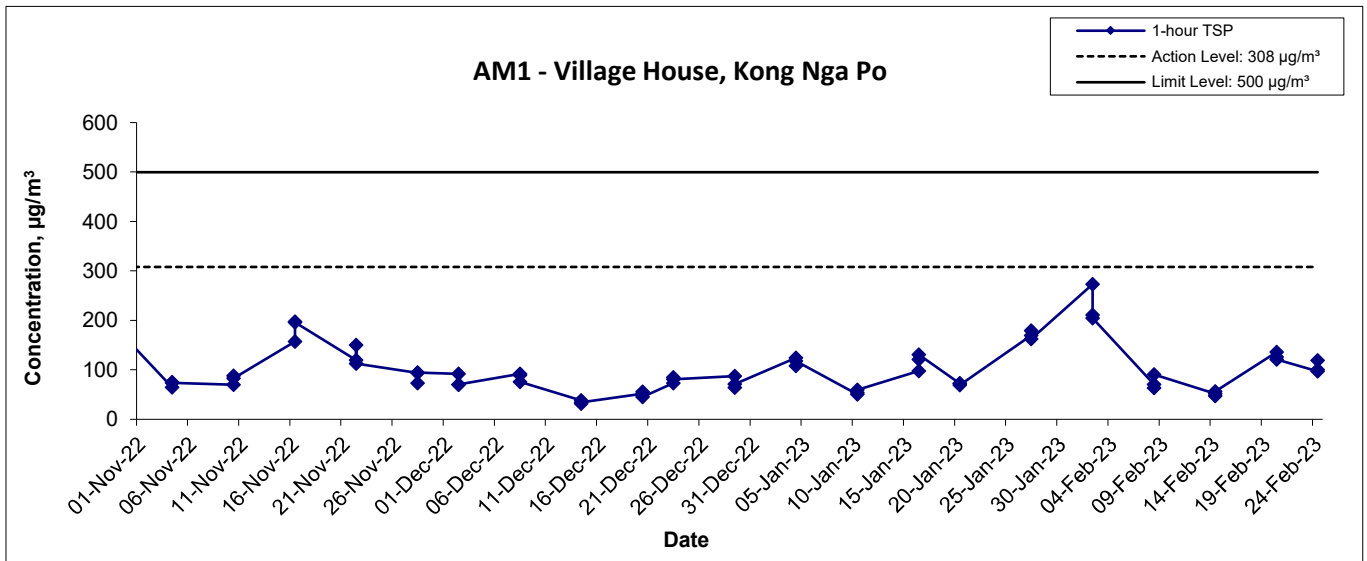
**APPENDIX E
AIR QUALITY MONITORING RESULTS
AND GRAPHICAL PRESENTATION**


Appendix E - 1-hour TSP Monitoring Results

Location AM1 - Village House, Kong Nga Po			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
2-Feb-23	13:00	Sunny	272.9
2-Feb-23	14:00	Sunny	210.8
2-Feb-23	15:00	Sunny	204.5
8-Feb-23	13:00	Cloudy	70.2
8-Feb-23	14:00	Cloudy	63.2
8-Feb-23	15:00	Cloudy	90.4
14-Feb-23	13:00	Sunny	51.6
14-Feb-23	14:00	Sunny	47.3
14-Feb-23	15:00	Sunny	55.8
20-Feb-23	13:00	Sunny	136.0
20-Feb-23	14:00	Sunny	126.2
20-Feb-23	15:00	Sunny	120.8
24-Feb-23	13:00	Sunny	97.2
24-Feb-23	14:00	Sunny	119.1
24-Feb-23	15:00	Sunny	100.4
		Minimum	47.3
		Maximum	272.9
		Average	117.8

Location AM2 - Village House, Kong Nga Po			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
6-Feb-23	13:00	Fine	32.2
6-Feb-23	14:00	Fine	45.1
6-Feb-23	15:00	Fine	38.6
10-Feb-23	13:00	Cloudy	109.4
10-Feb-23	14:00	Cloudy	116.2
10-Feb-23	15:00	Cloudy	96.9
16-Feb-23	9:00	Sunny	105.0
16-Feb-23	10:00	Sunny	107.9
16-Feb-23	11:00	Sunny	110.4
22-Feb-23	13:00	Sunny	86.8
22-Feb-23	14:00	Sunny	83.5
22-Feb-23	15:00	Sunny	75.9
28-Feb-23	9:00	Sunny	102.7
28-Feb-23	10:00	Sunny	94.0
28-Feb-23	11:00	Sunny	90.7
		Minimum	32.2
		Maximum	116.2
		Average	86.4

1-hr TSP Concentration Levels



Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of 1-hour TSP Monitoring Results	Scale N.T.S	Project No. WMA20001	 consulting . testing . research
	Date Feb 23	Appendix E	

**APPENDIX F
NOISE MONITORING RESULTS AND
GRAPHICAL PRESENTATION**

Appendix F - Noise Monitoring Results

Location NM1 - Village House, Sha Ling								
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Feb-23	Sunny	0.2	09:42	56.6	59.8	52.2	56.5	54.9
			09:47	56.8	59.1	53.3		
			09:52	55.7	57.0	53.7		
			09:57	55.0	56.1	49.5		
			10:02	57.2	59.2	53.6		
10:07	57.5	59.4	54.0					
8-Feb-23	Cloudy	0.3	13:00	54.6	57.9	45.9	54.6	
			13:05	55.3	58.2	45.8		
			13:10	52.6	55.4	45.5		
			13:15	55.3	59.7	45.9		
			13:20	54.7	57.8	45.8		
13:25	54.3	56.4	45.4					
14-Feb-23	Sunny	0.1	13:00	59.8	61.4	57.5	60.6	
			13:05	61.2	62.4	59.8		
			13:10	59.7	61.5	58.2		
			13:15	60.0	61.0	58.8		
			13:20	60.0	61.6	56.8		
13:25	62.1	64.2	59.5					
20-Feb-23	Sunny	0.0	08:35	57.4	60.4	52.2	58.6	
			08:40	56.7	59.3	52.1		
			08:45	58.9	61.5	54.5		
			08:50	59.6	62.5	54.9		
			08:55	58.7	61.6	54.0		
09:00	59.3	62.2	53.5					

Location NM2 - Village House, Sha Ling								
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Feb-23	Sunny	0.1	09:00	59.0	59.8	48.0	59.6	56.7
			09:05	63.7	68.3	49.5		
			09:10	59.7	61.9	50.6		
			09:15	58.7	62.1	53.9		
			09:20	56.5	58.1	48.1		
09:25	54.2	57.3	48.4					
8-Feb-23	Cloudy	0.1	13:40	53.8	57.7	45.8	53.7	
			13:45	50.7	52.9	44.1		
			13:50	53.9	58.3	44.3		
			13:55	51.5	52.5	43.0		
			14:00	51.2	55.0	41.0		
14:05	57.2	59.9	42.6					
14-Feb-23	Sunny	0.1	13:30	54.4	55.9	52.1	55.6	
			13:35	55.0	56.5	53.4		
			13:40	57.7	59.8	53.5		
			13:45	56.6	57.1	52.7		
			13:50	54.9	56.9	53.0		
13:55	54.0	55.1	52.5					
20-Feb-23	Sunny	0.0	09:10	60.0	62.9	55.0	62.2	
			09:15	59.2	60.8	55.4		
			09:20	58.0	59.4	51.9		
			09:25	67.6	67.4	51.7		
			09:30	57.8	60.7	52.3		
09:35	60.2	60.7	52.8					

Appendix F - Noise Monitoring Results

Location NM3 - Village House No. 248, Sha Ling									
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level	
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
2-Feb-23	Cloudy	0.2	10:26	64.3	66.1	52.9	59.8	54.5	
			10:31	60.9	63.9	46.3			
			10:36	55.6	60.2	45.0			
			10:41	53.8	55.9	44.8			
			10:46	59.8	62.6	48.3			
10:51	53.5	55.1	45.8						
8-Feb-23	Cloudy	0.1	14:20	58.3	60.5	51.5	59.5		54.5
			14:25	60.8	65.5	51.2			
			14:30	56.9	60.0	51.8			
			14:35	58.6	60.7	50.8			
			14:40	62.7	67.9	50.8			
14:45	55.9	59.0	47.0						
14-Feb-23	Sunny	0.1	14:30	60.8	63.0	57.8	61.2	54.5	
			14:35	63.3	67.1	57.4			
			14:40	61.1	65.0	56.2			
			14:45	60.5	62.0	56.5			
			14:50	59.8	61.7	56.5			
14:55	60.8	62.1	56.6						
20-Feb-23	Sunny	0.0	09:45	56.4	60.0	49.3	57.7		54.5
			09:50	55.9	58.7	50.4			
			09:55	56.3	59.0	51.4			
			10:00	56.2	59.1	50.3			
			10:05	61.0	64.8	49.9			
10:10	58.1	61.6	49.5						

Location NM4 - Village House, Sha Ling									
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level	
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
2-Feb-23	Sunny	0.1	11:03	62.0	66.4	53.8	60.2	58.7	
			11:08	57.6	59.5	50.5			
			11:13	61.0	64.3	52.8			
			11:18	60.1	61.8	54.6			
			11:23	60.6	62.1	56.2			
11:28	58.0	59.0	53.4						
8-Feb-23	Cloudy	0.0	15:40	64.0	65.1	51.0	61.7		58.7
			15:45	60.7	65.6	50.5			
			15:50	63.5	66.4	54.3			
			15:55	58.9	62.5	50.6			
			16:00	61.7	66.4	51.0			
16:05	58.0	60.5	50.9						
14-Feb-23	Sunny	0.1	14:45	58.7	60.2	57.6	60.6	58.7	
			14:50	58.8	60.0	57.5			
			14:55	60.0	61.7	58.2			
			15:00	60.1	60.6	58.2			
			15:05	61.0	62.9	58.4			
15:10	63.1	64.8	58.9						
20-Feb-23	Sunny	0.3	10:55	57.8	59.8	54.5	60.5		58.7
			11:00	63.1	66.5	56.8			
			11:05	60.8	64.8	54.3			
			11:10	61.8	62.8	55.0			
			11:15	59.2	62.3	55.0			
11:20	57.1	59.3	54.3						

Appendix F - Noise Monitoring Results

Location NM5 - Village House No. 270, Sha Ling								
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Feb-23	Sunny	0.1	11:08	60.4	59.4	48.6	57.0	57.0
			11:13	53.0	54.2	49.5		
			11:18	54.8	56.8	50.3		
			11:23	56.8	58.2	51.5		
			11:28	56.8	59.2	52.5		
11:33	56.3	59.5	51.3					
8-Feb-23	Cloudy	0.0	13:50	60.7	62.6	47.6	55.5	
			13:55	52.9	55.4	47.0		
			14:00	50.9	53.0	46.8		
			14:05	53.0	56.5	47.1		
			14:10	52.9	56.3	46.5		
14:15	54.2	58.7	47.9					
14-Feb-23	Sunny	0.1	15:05	54.0	57.0	50.9	54.2	
			15:10	53.3	56.2	50.5		
			15:15	55.5	59.0	51.7		
			15:20	54.8	57.4	50.9		
			15:25	53.7	56.7	50.3		
15:30	53.1	55.4	50.2					
20-Feb-23	Sunny	0.0	10:20	61.9	65.1	53.8	59.2	
			10:25	60.1	62.4	52.9		
			10:30	57.8	60.5	53.9		
			10:35	59.0	60.2	52.2		
			10:40	56.4	58.6	52.5		
10:45	57.9	59.5	51.9					

Location NM6 - Village House, Sha Ling								
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Feb-23	Sunny	0.1	13:00	55.0	58.8	49.7	55.6	56.0
			13:05	56.8	59.5	53.7		
			13:10	54.5	57.2	49.8		
			13:15	54.8	57.0	52.1		
			13:20	55.8	58.1	53.7		
13:25	56.2	58.8	53.2					
8-Feb-23	Cloudy	0.0	14:50	63.8	67.5	52.7	61.8	
			14:55	59.6	62.2	54.0		
			15:00	58.5	61.3	53.8		
			15:05	65.8	68.7	53.1		
			15:10	58.6	62.3	53.7		
15:15	57.0	60.2	52.4					
14-Feb-23	Sunny	0.2	16:00	61.6	63.9	57.7	60.4	
			16:05	59.2	60.5	57.1		
			16:10	57.5	59.3	55.0		
			16:15	58.4	60.0	56.2		
			16:20	62.3	65.0	58.1		
16:25	61.5	63.5	57.3					
20-Feb-23	Sunny	0.0	11:30	59.9	62.0	55.0	58.2	
			11:35	60.6	62.3	53.6		
			11:40	57.2	59.4	51.7		
			11:45	56.1	58.7	52.1		
			11:50	55.5	58.2	50.8		
11:55	57.5	60.3	53.1					

Appendix F - Noise Monitoring Results

Location NM7 - Village House, Sha Ling								
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Feb-23	Sunny	0.0	13:02	53.1	52.7	44.7	50.4	49.8
			13:07	48.7	49.3	43.3		
			13:12	51.8	52.4	44.1		
			13:17	47.6	49.7	43.9		
			13:22	50.1	50.6	44.8		
13:27	48.5	51.1	44.4					
8-Feb-23	Cloudy	0.0	16:30	49.0	51.5	44.5	49.7	
			16:35	45.8	48.1	43.3		
			16:40	48.1	50.3	45.1		
			16:45	54.3	57.2	46.5		
			16:50	47.6	48.7	44.7		
16:55	47.3	49.0	45.1					
14-Feb-23	Sunny	0.1	16:30	57.4	60.5	49.5	53.6	
			16:35	51.7	55.4	47.9		
			16:40	49.2	51.2	47.0		
			16:45	52.2	54.5	48.1		
			16:50	52.9	56.4	48.1		
16:55	53.9	56.7	47.7					
20-Feb-23	Sunny	0.0	15:00	58.9	61.8	50.4	53.6	
			15:05	51.6	56.1	40.7		
			15:10	51.0	56.1	39.8		
			15:15	48.1	50.4	42.3		
			15:20	49.0	52.2	42.2		
15:25	52.4	54.3	40.8					

Location NM8 - Village House, Sha Ling								
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
6-Feb-23	Cloudy	0.3	10:05	51.3	52.6	44.6	49.5	57.6
			10:10	48.4	51.6	44.2		
			10:15	50.9	54.6	44.9		
			10:20	49.1	51.7	44.7		
			10:25	47.9	50.7	42.9		
10:30	47.7	51.2	42.1					
16-Feb-23	Sunny	0.6	09:00	58.2	57.1	49.6	59.5	
			09:05	57.6	59.9	50.9		
			09:10	56.0	57.4	49.7		
			09:15	58.8	56.2	49.2		
			09:20	59.9	61.1	51.8		
09:25	63.0	68.9	52.1					
22-Feb-23	Sunny	0.1	13:00	56.8	58.1	46.2	54.5	
			13:05	53.6	54.1	45.6		
			13:10	52.5	55.1	48.5		
			13:15	52.0	53.9	47.8		
			13:20	55.5	53.8	47.9		
13:25	54.7	55.1	48.1					
28-Feb-23	Sunny	0.2	13:00	55.4	56.5	44.4	54.0	
			13:05	48.6	52.6	42.6		
			13:10	52.8	54.1	46.9		
			13:15	54.4	56.4	48.5		
			13:20	55.6	57.9	50.4		
13:25	54.1	56.4	49.6					

Appendix F - Noise Monitoring Results

Location NM9 - Village House, Kong Nga Po								
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
6-Feb-23	Cloudy	0.1	10:45	61.7	63.7	50.5	58.6	55.9
			10:50	58.1	61.1	50.0		
			10:55	57.6	59.5	51.7		
			11:00	58.7	61.4	51.5		
			11:05	53.8	59.8	51.4		
11:10	58.1	61.6	52.6					
16-Feb-23	Sunny	0.2	09:40	57.2	60.5	52.9	58.1	
			09:45	57.1	59.8	53.2		
			09:50	56.6	59.3	52.2		
			09:55	57.8	60.4	53.2		
			10:00	57.5	59.8	53.2		
			10:05	60.9	64.8	53.8		
22-Feb-23	Sunny	0.2	13:55	65.7	68.8	59.6	65.1	
			14:00	67.5	71.3	58.9		
			14:05	65.4	68.9	58.7		
			14:10	63.6	67.2	58.3		
			14:15	62.2	63.8	60.0		
			14:20	64.2	67.4	59.3		
28-Feb-23	Sunny	0.2	13:50	56.4	60.0	51.0	56.6	
			13:55	55.6	58.2	52.0		
			14:00	57.0	59.3	53.6		
			14:05	56.9	58.9	53.0		
			14:10	57.2	59.5	52.7		
			14:15	56.2	58.9	50.4		

Location NM10 - Village House, Kong Nga Po								
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Feb-23	Sunny	0.0	13:38	54.7	57.4	50.1	54.0	52.8
			13:43	53.0	55.2	50.3		
			13:48	54.1	56.6	51.4		
			13:53	54.6	57.0	51.4		
			13:58	54.2	56.1	51.5		
			14:03	53.4	55.2	51.1		
8-Feb-23	Cloudy	0.0	13:10	55.9	58.8	51.0	55.7	
			13:15	54.2	57.3	53.1		
			13:20	57.7	59.3	52.2		
			13:25	54.6	57.0	51.6		
			13:30	55.6	58.7	51.8		
			13:35	55.0	56.9	51.4		
14-Feb-23	Sunny	0.1	13:45	58.3	59.4	57.1	58.9	
			13:50	57.9	58.5	57.2		
			13:55	58.8	59.3	58.3		
			14:00	59.2	59.7	59.0		
			14:05	59.2	59.4	59.1		
			14:10	59.6	60.6	58.7		
20-Feb-23	Sunny	0.1	13:50	59.5	61.8	55.0	57.5	
			13:55	57.4	60.8	52.7		
			14:00	55.7	57.7	52.1		
			14:05	57.6	60.5	53.5		
			14:10	55.0	57.5	51.0		
			14:15	58.1	61.6	53.8		

Appendix F - Noise Monitoring Results

Location NM11 - Village House, Kong Nga Po										
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level		
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
6-Feb-23	Cloudy	0.0	10:52	44.5	46.7	41.8	45.9	46.4		
			10:57	45.5	48.2	41.7				
			11:02	49.0	47.9	41.2				
			11:07	44.3	46.3	41.5				
			11:12	45.9	48.1	41.9				
11:17	43.7	45.2	41.7							
16-Feb-23	Sunny	0.0	10:15	50.4	53.2	47.8	52.3		46.4	
			10:20	57.9	55.9	48.0				
			10:25	48.7	49.7	47.6				
			10:30	48.7	49.7	47.7				
			10:35	48.9	50.7	47.4				
10:40	48.4	49.5	47.4							
22-Feb-23	Sunny	0.0	13:55	54.2	56.4	47.2	52.4			46.4
			14:00	53.7	57.9	45.9				
			14:05	51.3	54.4	45.6				
			14:10	52.4	53.8	47.4				
			14:15	51.6	54.5	45.9				
14:20	49.2	51.6	45.5							
28-Feb-23	Sunny	0.2	13:55	48.0	49.3	46.3	48.0	46.4		
			14:00	48.5	50.7	46.6				
			14:05	48.4	50.5	46.7				
			14:10	48.5	50.8	44.6				
			14:15	47.4	48.7	45.9				
14:20	46.7	47.1	45.6							

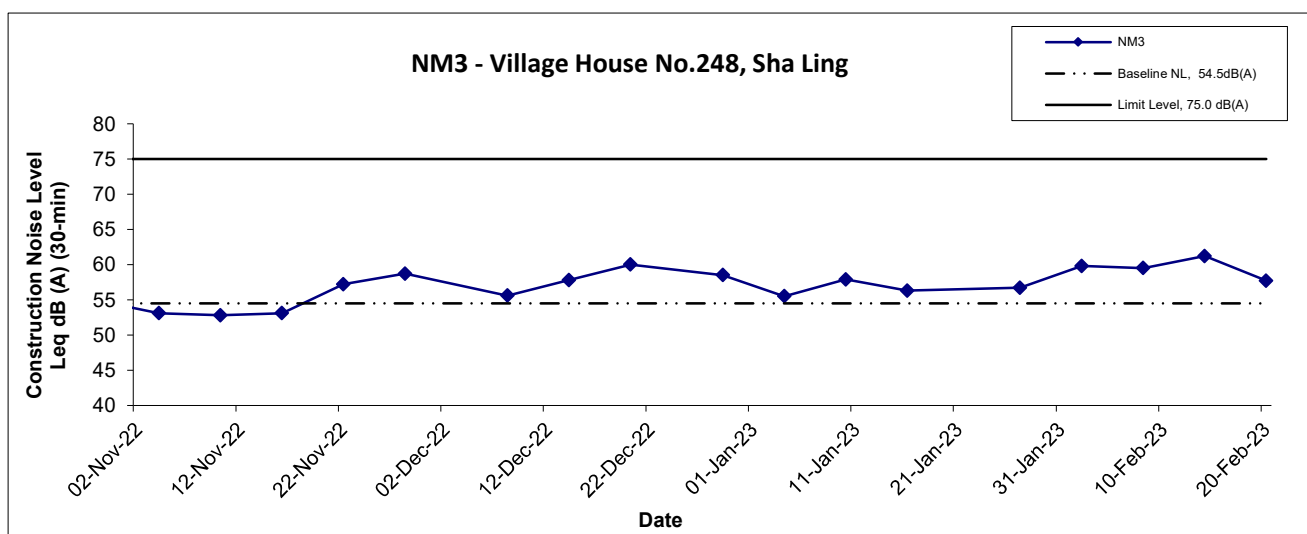
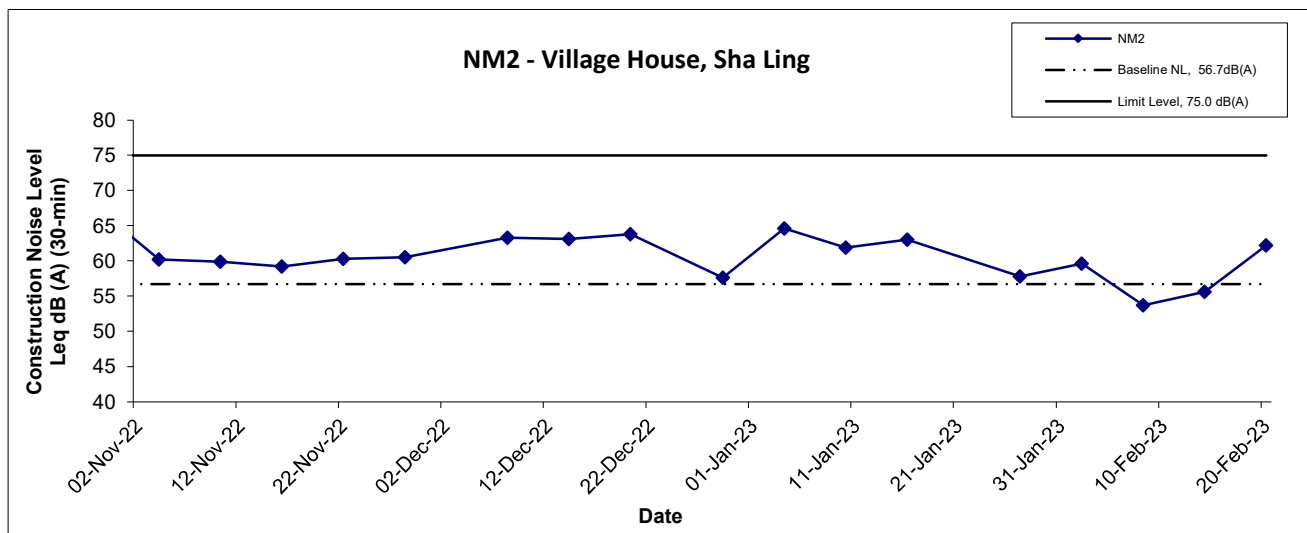
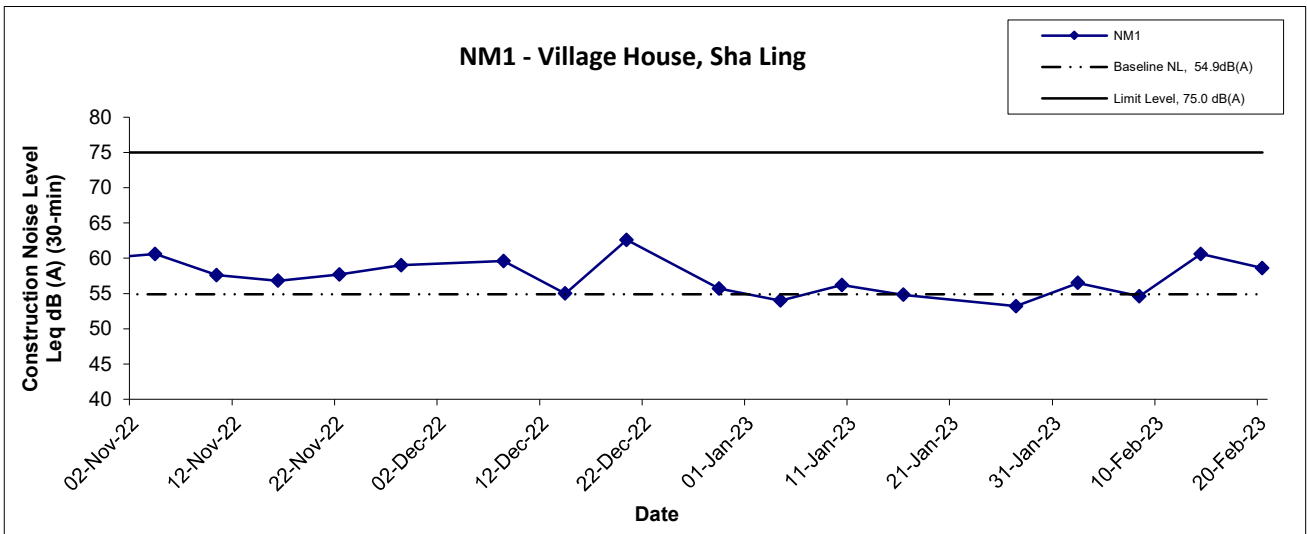
Location NM12 - Village House, Kong Nga Po										
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level		
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
6-Feb-23	Sunny	0.0	13:05	53.6	56.8	49.2	53.5	54.7		
			13:10	53.8	56.1	50.3				
			13:15	52.7	54.0	50.7				
			13:20	52.0	53.1	46.5				
			13:25	54.2	56.2	50.6				
13:30	54.2	57.3	48.4							
16-Feb-23	Sunny	0.2	08:15	55.8	57.3	52.6	56.9		54.7	
			08:20	56.4	57.2	53.0				
			08:25	55.7	57.1	52.3				
			08:30	59.4	61.3	54.7				
			08:35	58.0	61.0	53.8				
08:40	54.2	57.2	52.0							
22-Feb-23	Sunny	0.0	13:00	53.1	55.8	40.8	53.3			54.7
			13:05	54.3	56.5	38.4				
			13:10	49.4	53.2	38.1				
			13:15	53.5	57.0	39.9				
			13:20	53.4	55.0	39.7				
13:25	54.5	55.7	40.4							
28-Feb-23	Sunny	0.3	13:00	55.0	59.5	41.3	57.4	54.7		
			13:05	61.5	66.7	41.8				
			13:10	52.7	54.3	37.9				
			13:15	54.2	55.8	37.6				
			13:20	53.7	57.8	38.7				
13:25	59.6	65.2	39.1							

Appendix F - Noise Monitoring Results

Location NM13 - Village House, Kong Nga Po								
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
6-Feb-23	Cloudy	0.0	11:26	49.1	52.6	38.5	44.3	61.3
			11:31	41.3	42.4	38.2		
			11:36	43.0	44.2	38.6		
			11:41	42.8	44.1	37.8		
			11:46	41.7	42.4	36.9		
11:51	41.1	43.4	37.4					
16-Feb-23	Sunny	0.4	10:50	49.4	52.6	42.6	57.7	
			10:55	45.4	47.0	41.7		
			11:00	46.8	49.2	42.5		
			11:05	58.5	61.5	43.7		
			11:10	61.3	61.9	60.7		
11:15	61.1	62.1	59.5					
22-Feb-23	Sunny	0.0	14:35	52.1	56.3	46.8	52.6	
			14:40	51.0	54.1	46.1		
			14:45	53.6	57.7	48.1		
			14:50	51.9	53.7	48.8		
			14:55	53.1	56.8	48.2		
15:00	53.4	55.8	47.6					
28-Feb-23	Sunny	0.2	14:35	50.3	53.6	46.1	57.2	
			14:40	46.7	47.9	45.5		
			14:45	52.1	55.5	46.8		
			14:50	59.5	61.7	47.9		
			14:55	59.9	64.2	46.8		
15:00	60.0	63.3	47.4					

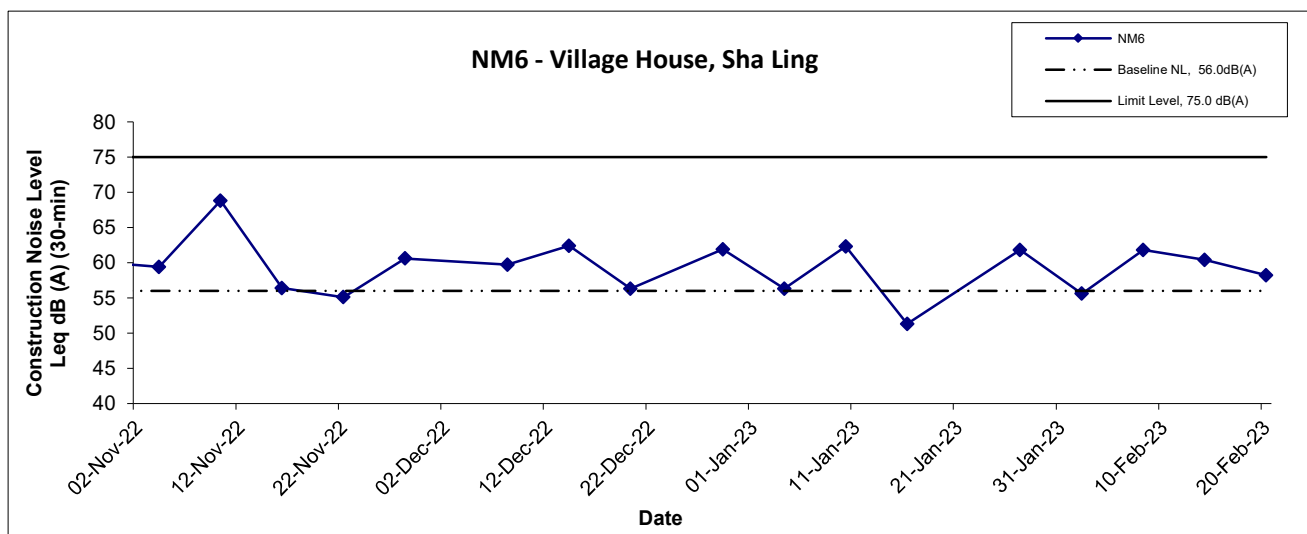
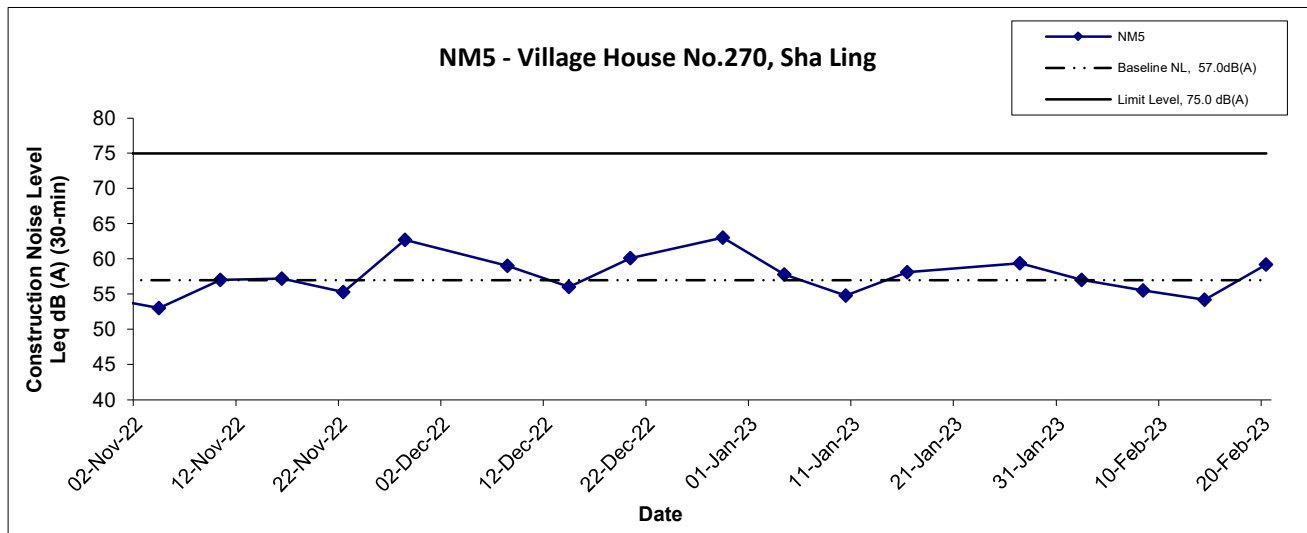
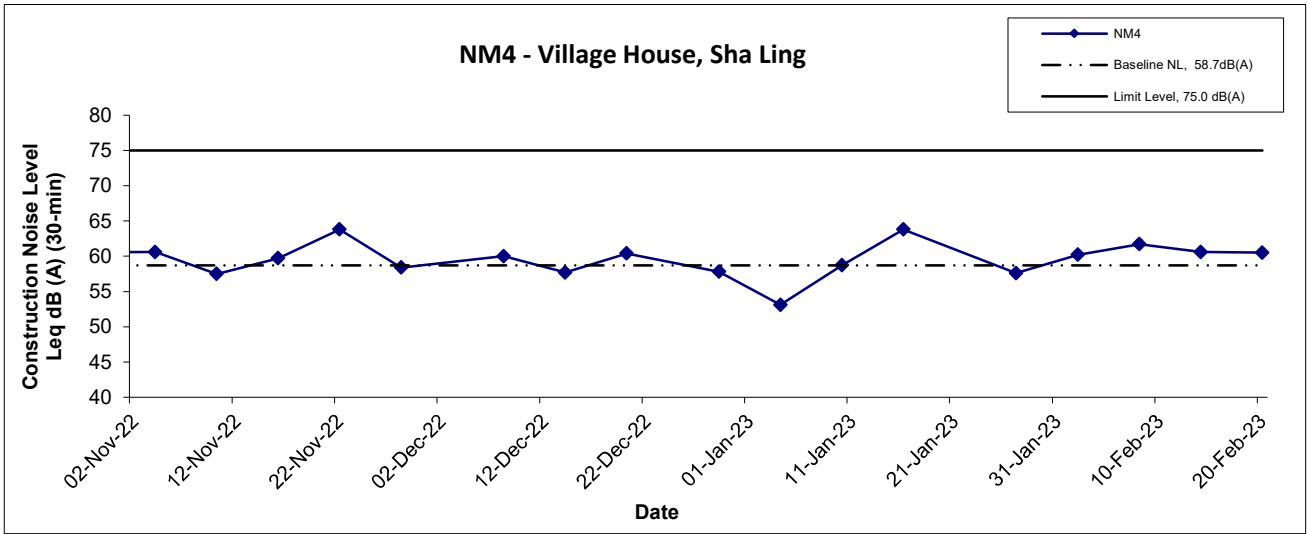
Location NM14 - Village House, near Man Kam To Road								
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
6-Feb-23	Cloudy	0.1	11:30	57.8	52.5	43.7	54.0	59.6
			11:35	50.1	53.6	43.0		
			11:40	49.5	55.2	41.7		
			11:45	48.9	52.9	40.8		
			11:50	57.2	53.7	42.1		
			11:55	50.8	53.4	42.3		
16-Feb-23	Sunny	0.5	11:30	48.0	50.9	43.6	60.9	
			11:35	58.7	62.2	44.8		
			11:40	49.7	52.3	44.6		
			11:45	66.0	62.5	45.6		
			11:50	63.6	60.3	44.3		
11:55	52.0	54.2	43.9					
22-Feb-23	Sunny	0.0	15:15	47.6	50.2	40.0	56.9	
			15:20	49.0	51.6	41.1		
			15:25	63.1	52.6	44.6		
			15:30	50.8	53.8	41.5		
			15:35	53.1	57.2	43.2		
15:40	56.3	60.2	42.5					
28-Feb-23	Sunny	0.2	15:15	48.1	51.4	42.1	48.5	
			15:20	50.3	52.7	44.1		
			15:25	49.2	51.5	41.2		
			15:30	48.7	51.6	43.6		
			15:35	46.9	50.0	41.7		
15:40	46.9	49.9	41.6					

Noise Levels



Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. WMA20001	consulting . testing . research
	Date Feb 23	Appendix F	

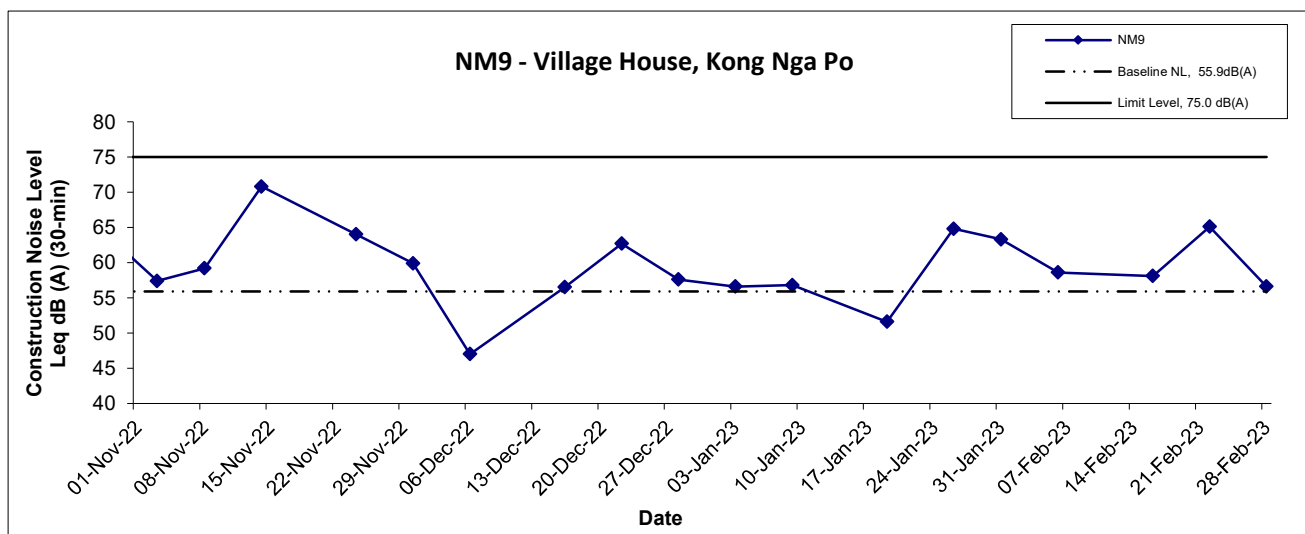
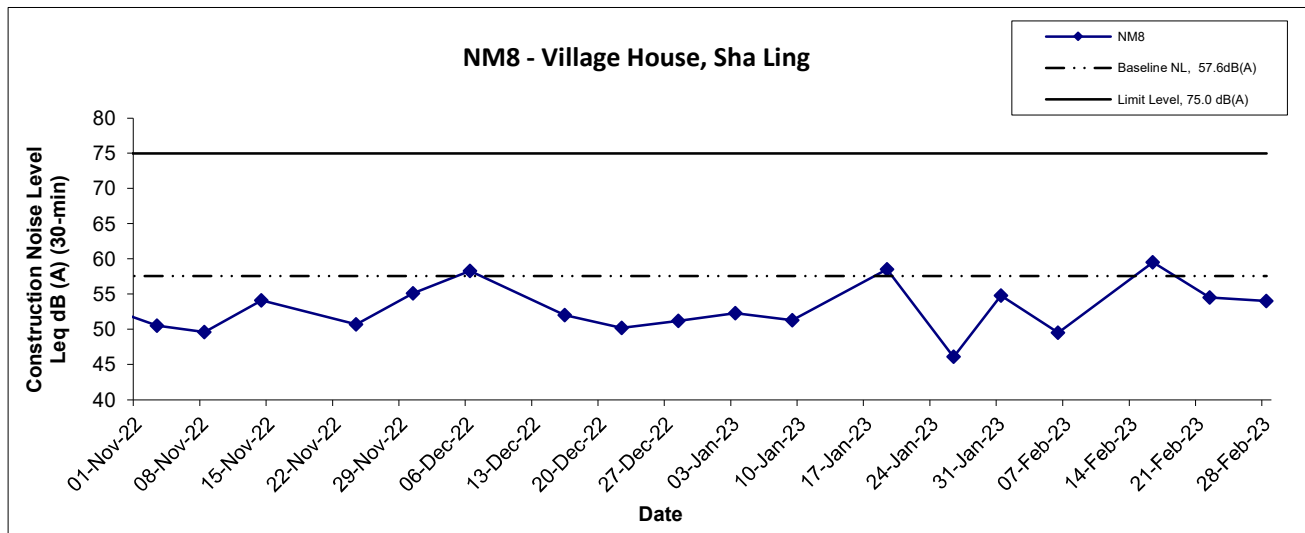
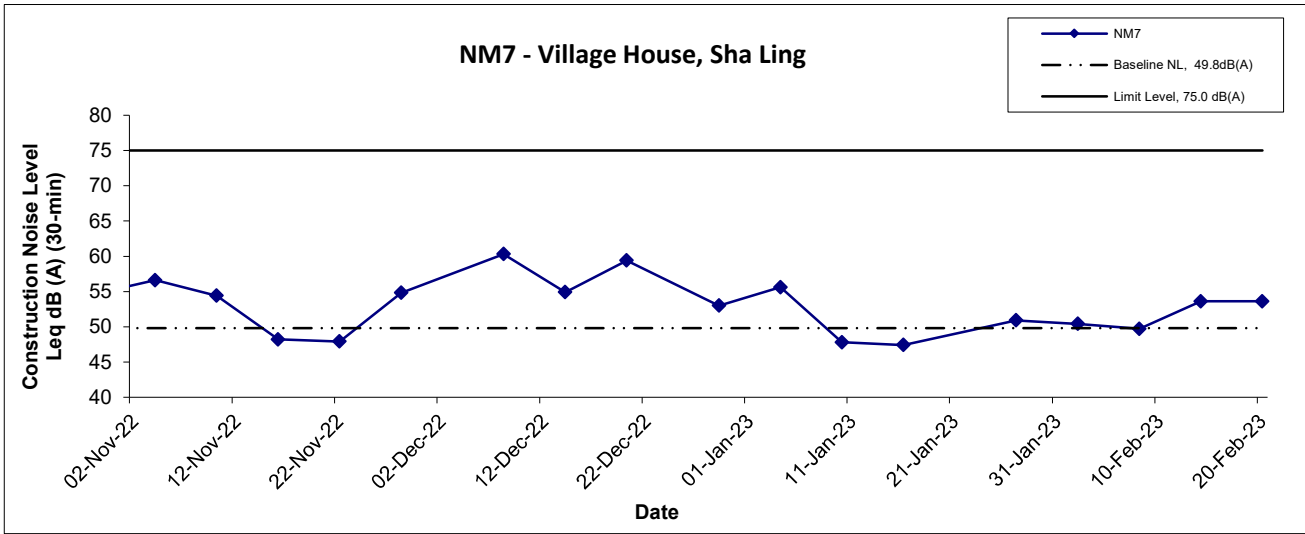
Noise Levels



Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	Scale	N.T.S	Project No.	WMA20001
	Date	Feb 23	Appendix	F

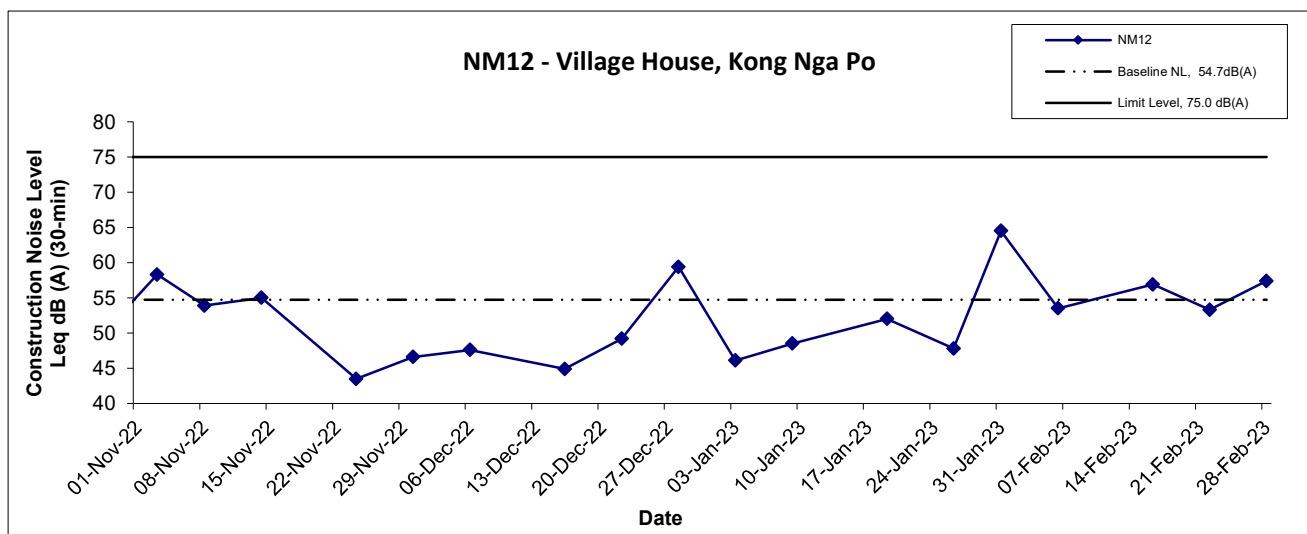
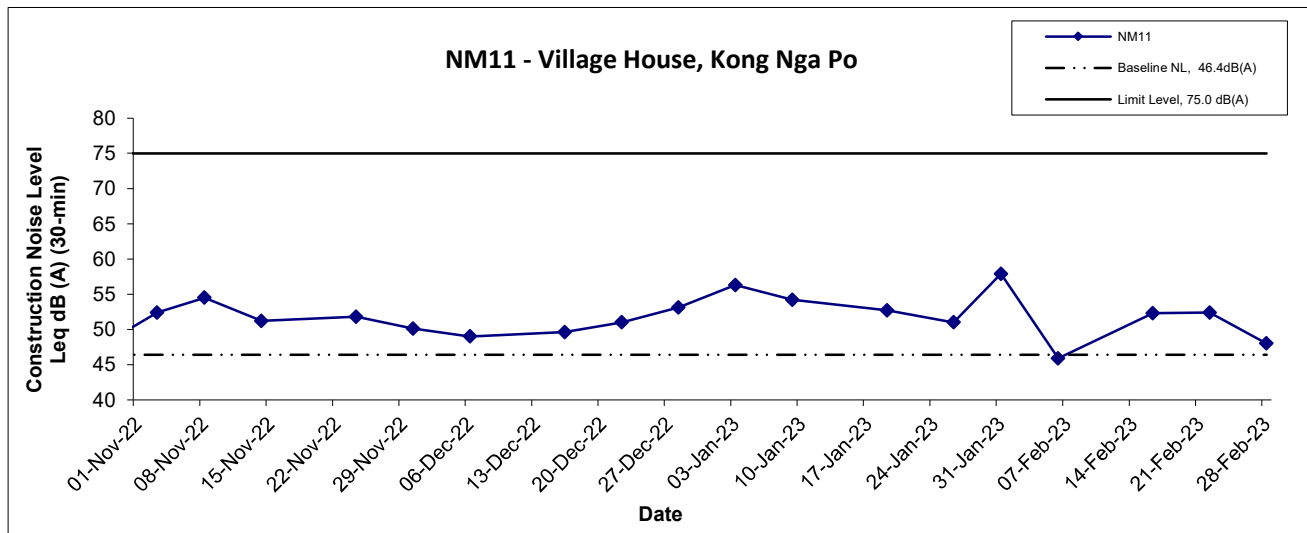
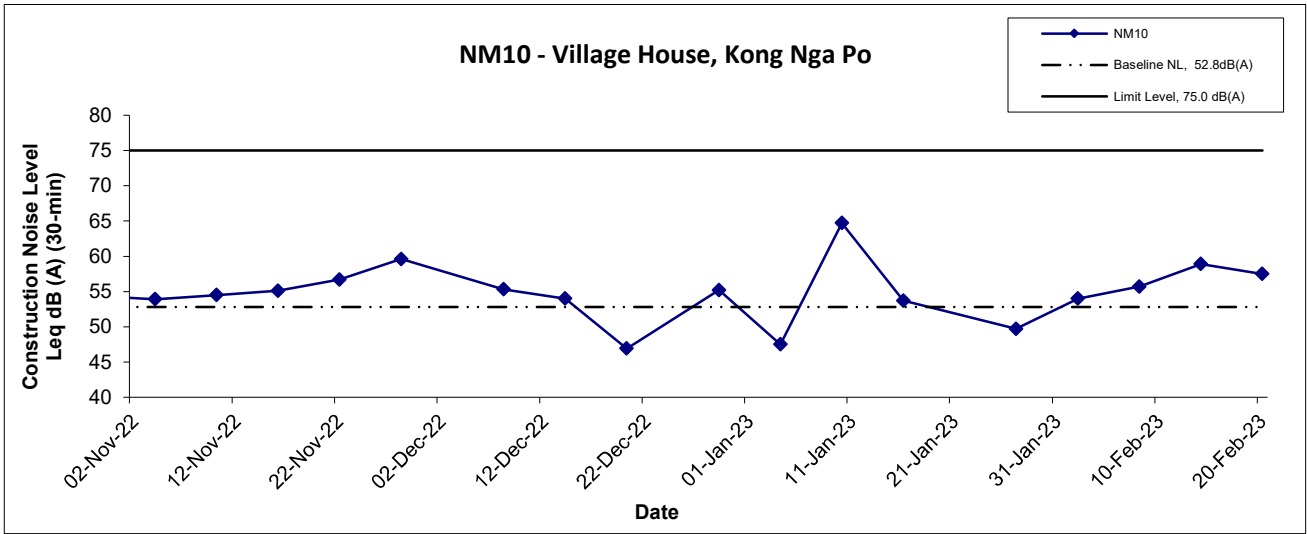


Noise Levels



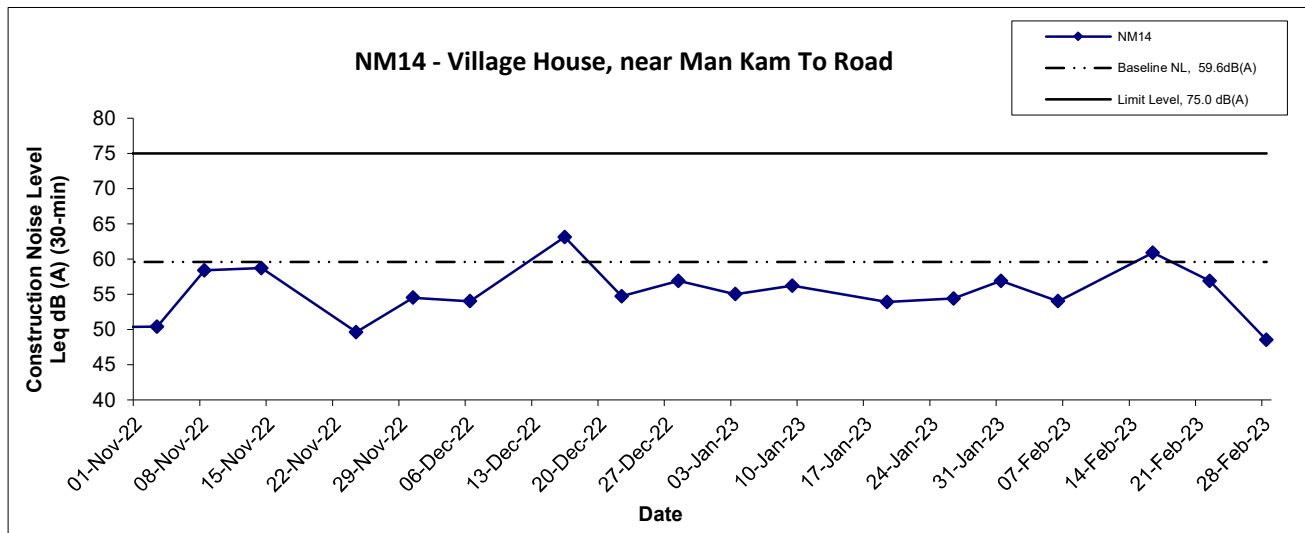
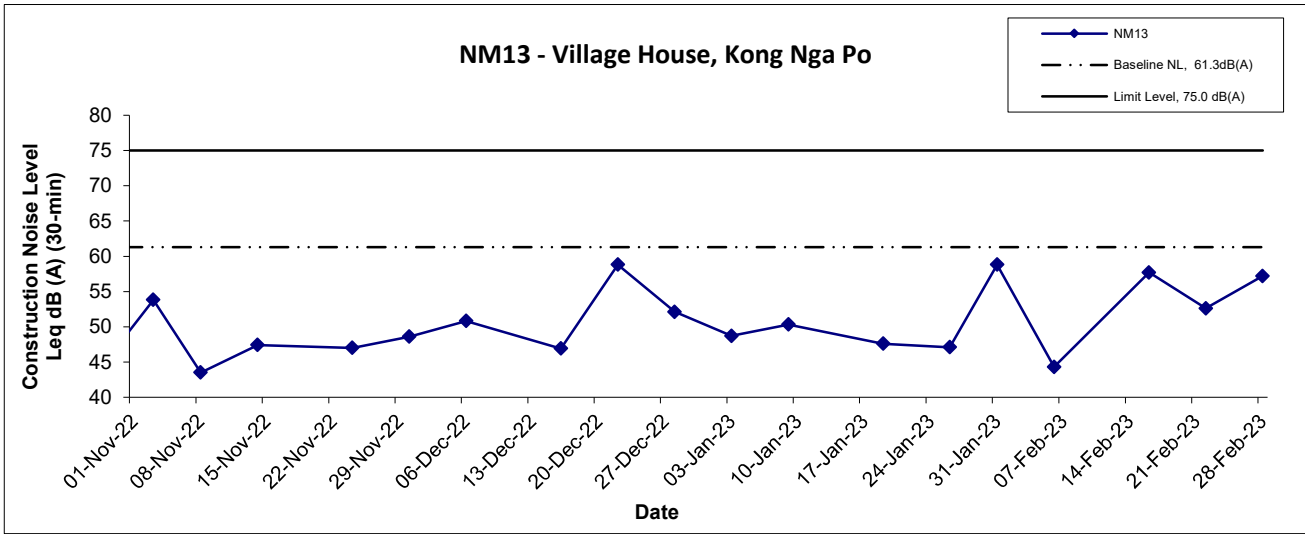
Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. WMA20001	consulting . testing . research
	Date Feb 23	Appendix F	

Noise Levels



Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. WMA20001	consulting . testing . research
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Noise Levels



Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. WMA20001	consulting . testing . research
	Date Feb 23	Appendix F	

**APPENDIX G
WEATHER CONDITION**

Appendix G –**General Weather Conditions during the Monitoring Period (February 2023)**

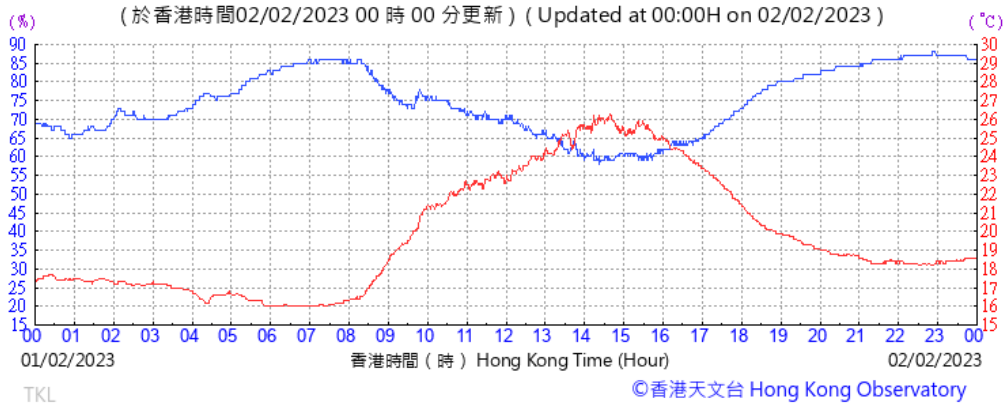
Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 February 2023	19.9	77	0.0
2 February 2023	19.4	77	0.0
3 February 2023	17.9	76	0.0
4 February 2023	17.4	81	0.4
5 February 2023	17.9	83	Trace
6 February 2023	19.2	85	0.1
7 February 2023	21.0	83	Trace
8 February 2023	18.5	84	Trace
9 February 2023	19.5	83	0.1
10 February 2023	21.2	87	0.1
11 February 2023	18.7	93	0.9
12 February 2023	19.9	95	Trace
13 February 2023	22.3	88	Trace
14 February 2023	18.5	64	0.0
15 February 2023	16.3	60	0.0
16 February 2023	16.8	62	0.0
17 February 2023	18.7	70	0.0

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
18 February 2023	21.0	67	0.0
19 February 2023	22.8	67	Trace
20 February 2023	20.1	64	0.0
21 February 2023	17.8	62	0.0
22 February 2023	16.9	61	0.0
23 February 2023	18.2	70	0.0
24 February 2023	19.8	67	0.0
25 February 2023	17.1	54	0.0
26 February 2023	16.8	58	0.0
27 February 2023	16.4	60	0.0
28 February 2023	17.8	71	0.0

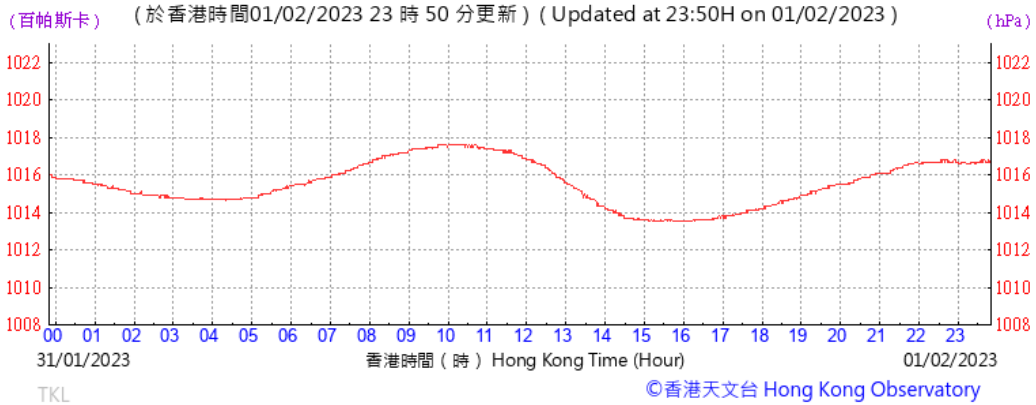
* The above information was extracted from the daily weather summary by Hong Kong Observatory.

2 February 2023

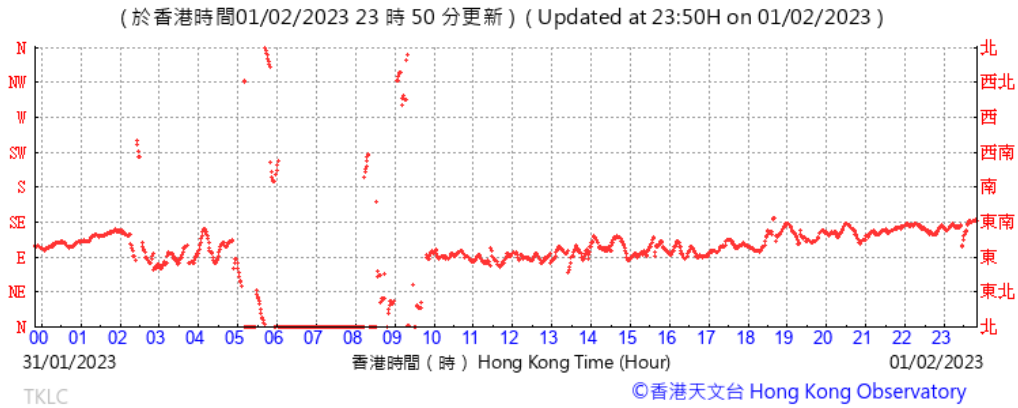
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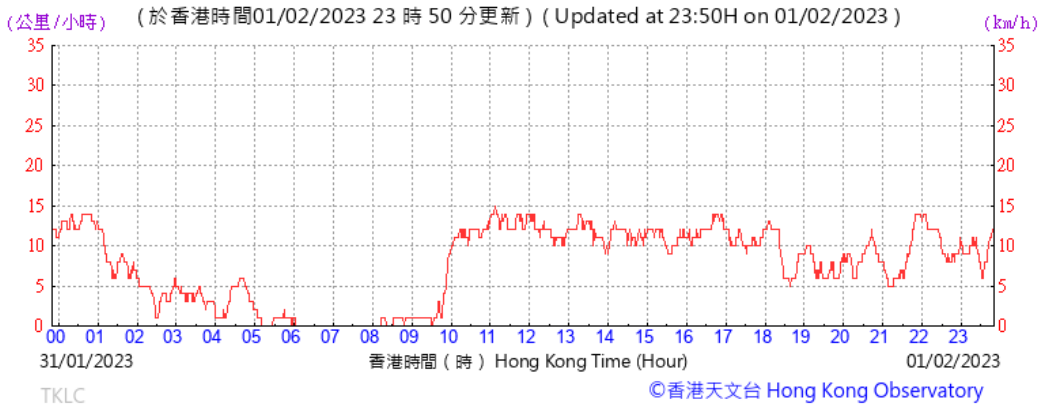
Pressure:



Wind Direction:



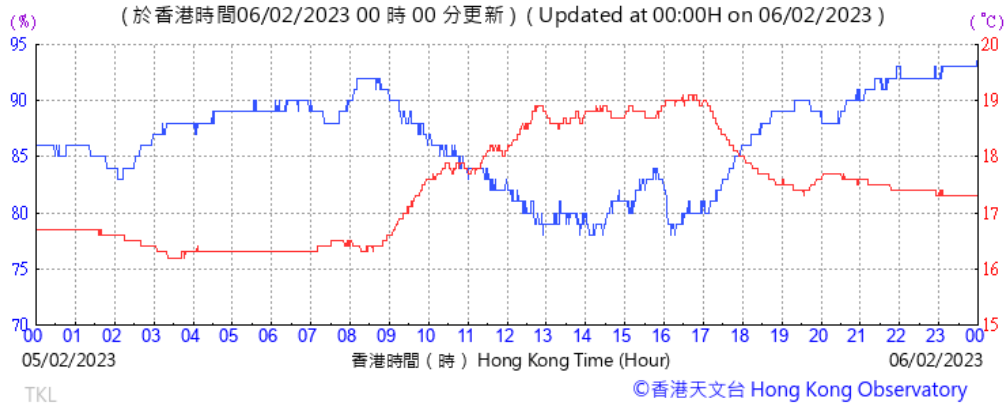
Wind Speed:



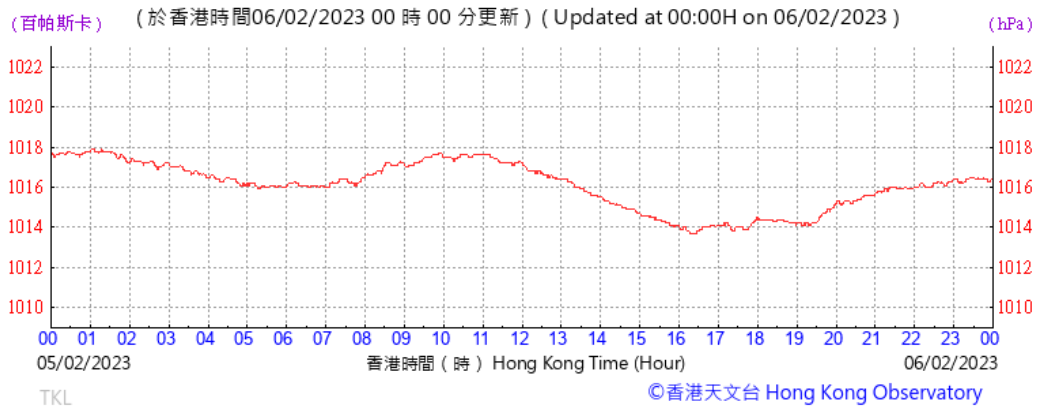
Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale N.T.S	Project No. WMA20001	
	Date Feb 23	Appendix G	

6 February 2023

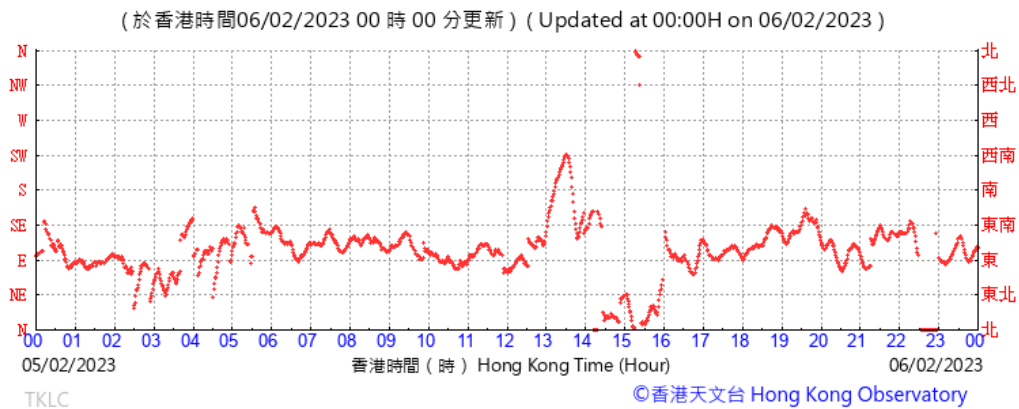
Temperature/Humidity:



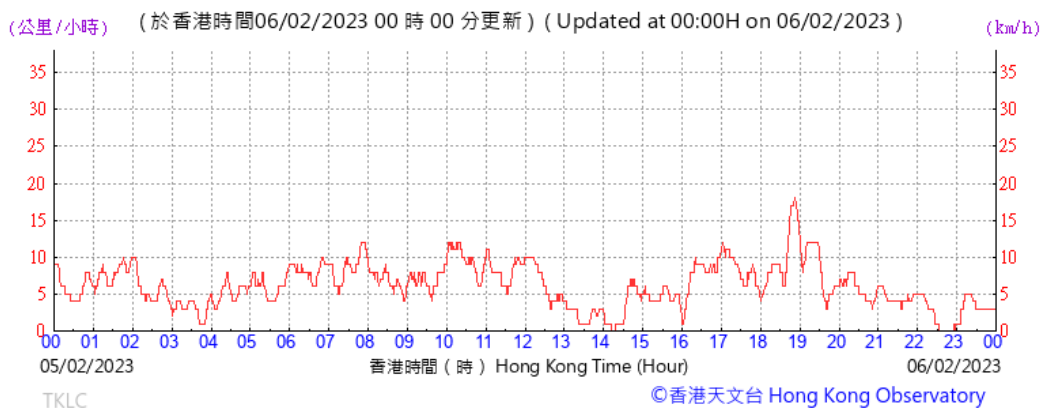
Pressure:



Wind Direction:



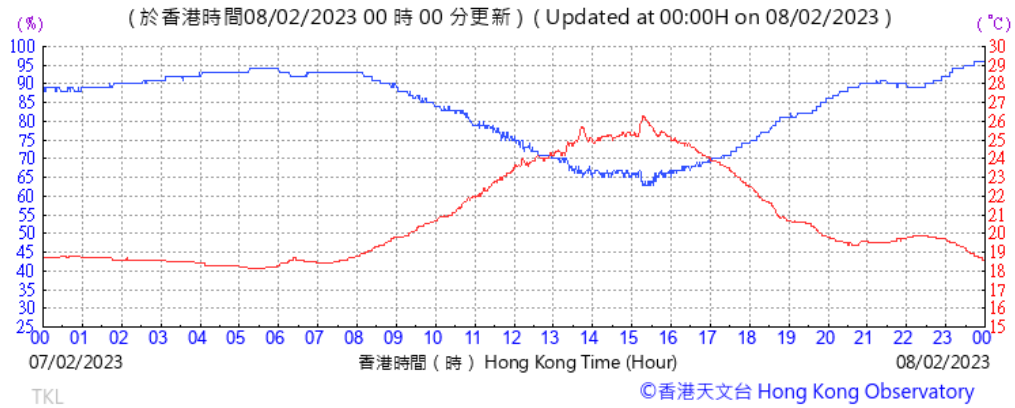
Wind Speed:



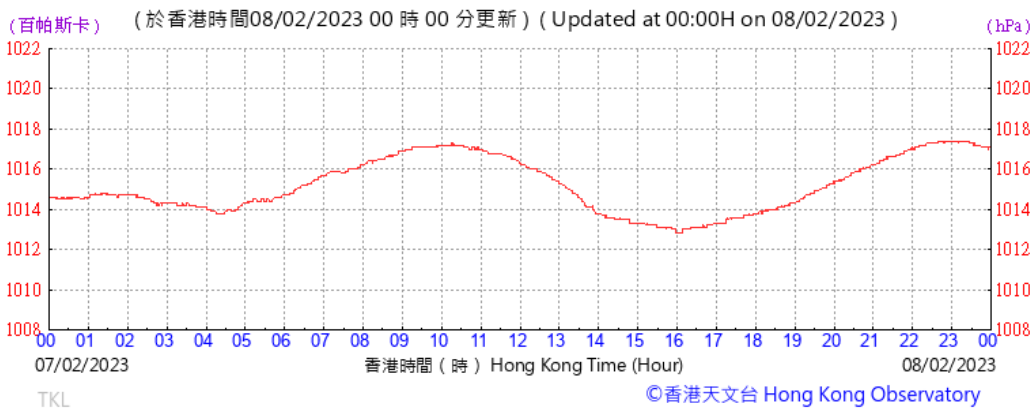
Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale N.T.S	Project No. WMA20001	consulting . testing . research
	Date Feb 23	Appendix G	

8 February 2023

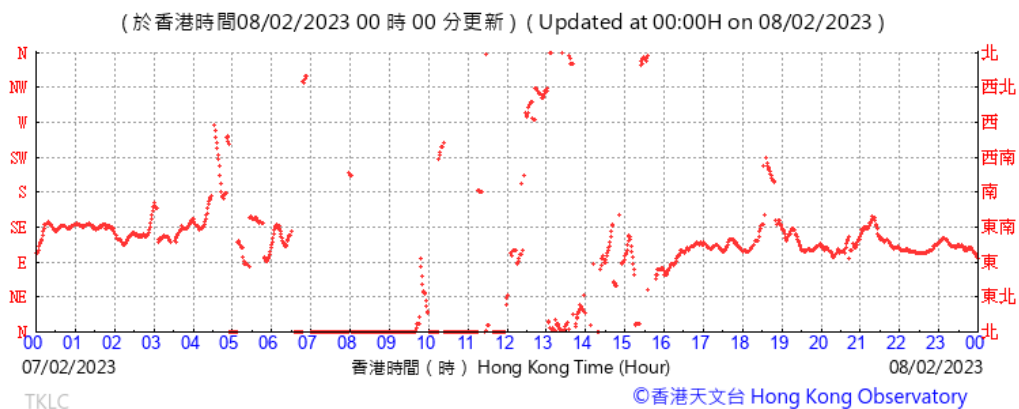
Temperature/Humidity:



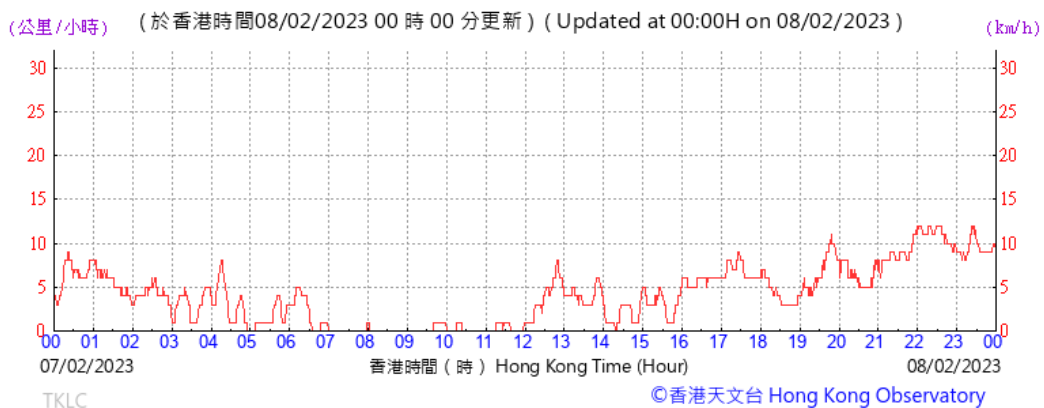
Pressure:



Wind Direction:



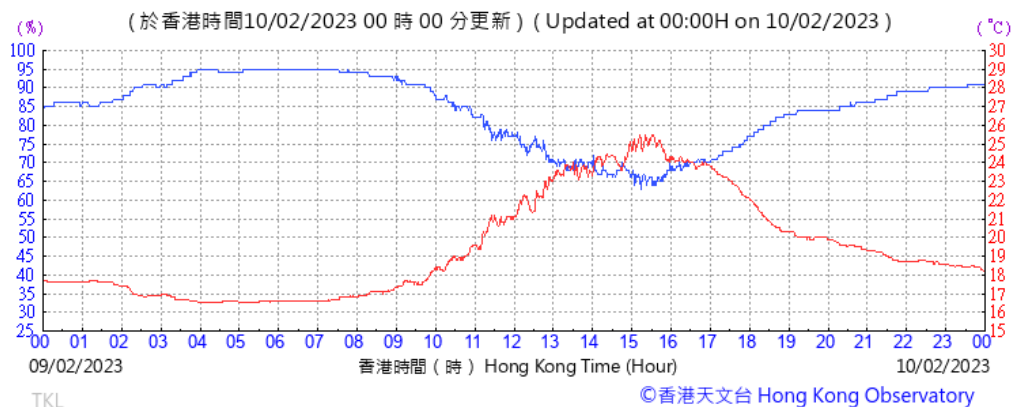
Wind Speed:



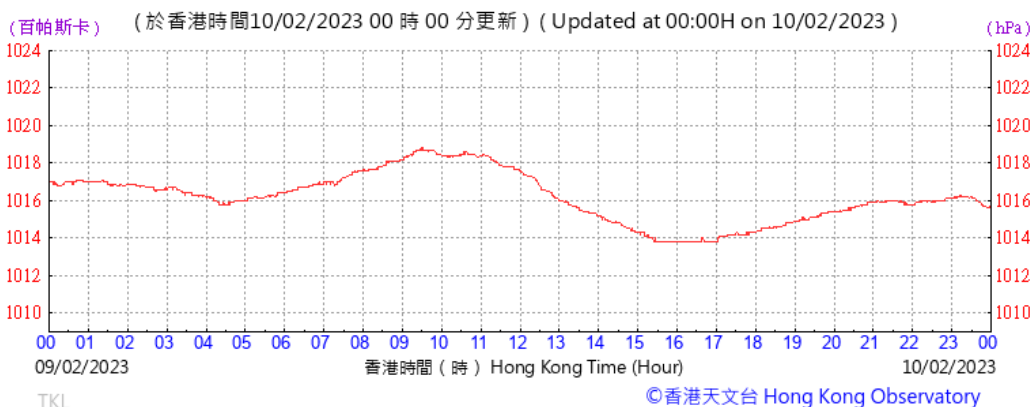
Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale N.T.S	Project No. WMA20001	
	Date Feb 23	Appendix G	

10 February 2023

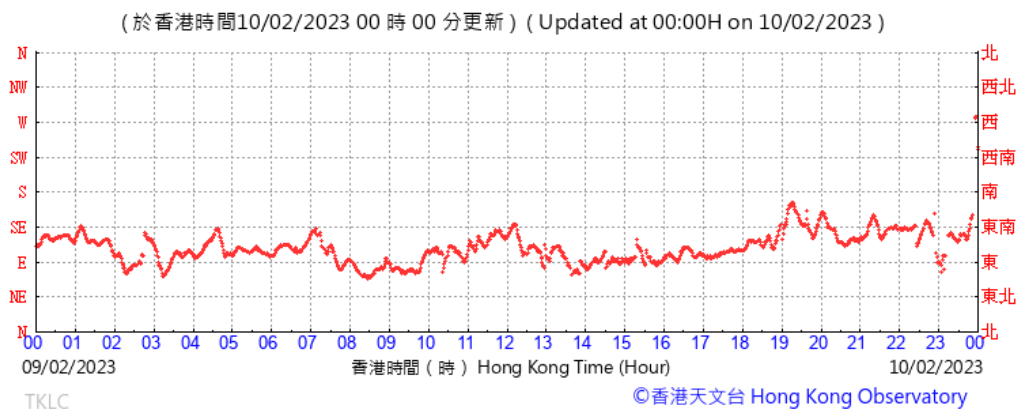
Temperature/Humidity:



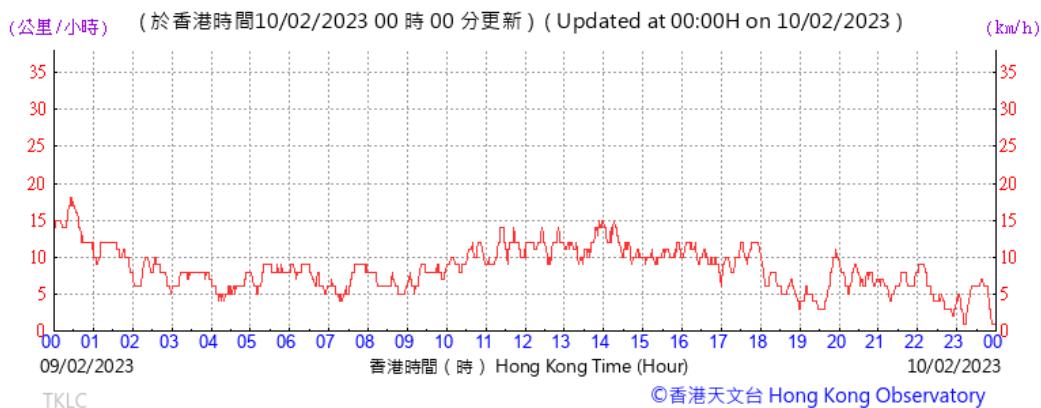
Pressure:



Wind Direction:



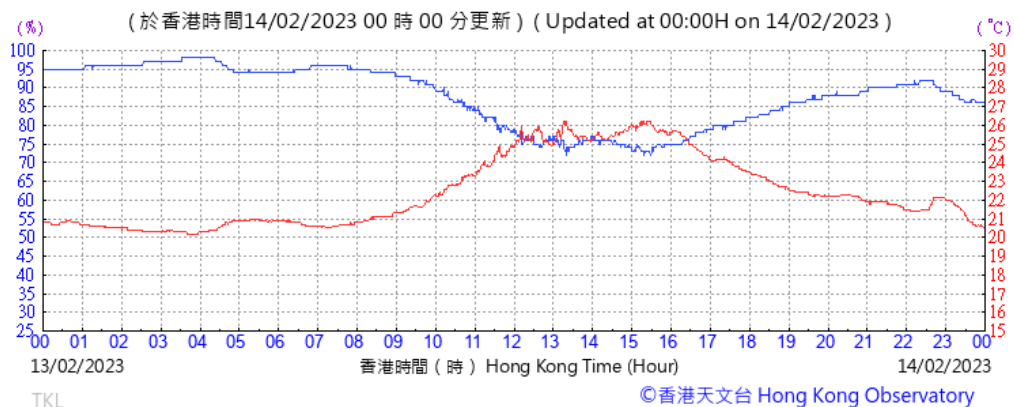
Wind Speed:



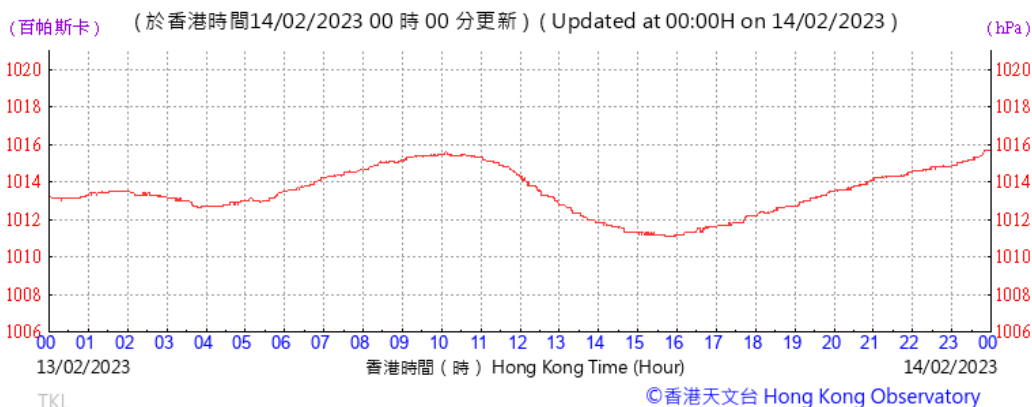
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	Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	N.T.S	No. WMA20001	
Meteorological Data at Ta Kwu Ling Weather Station		Date	Appendix	
		Feb 23	G	

14 February 2023

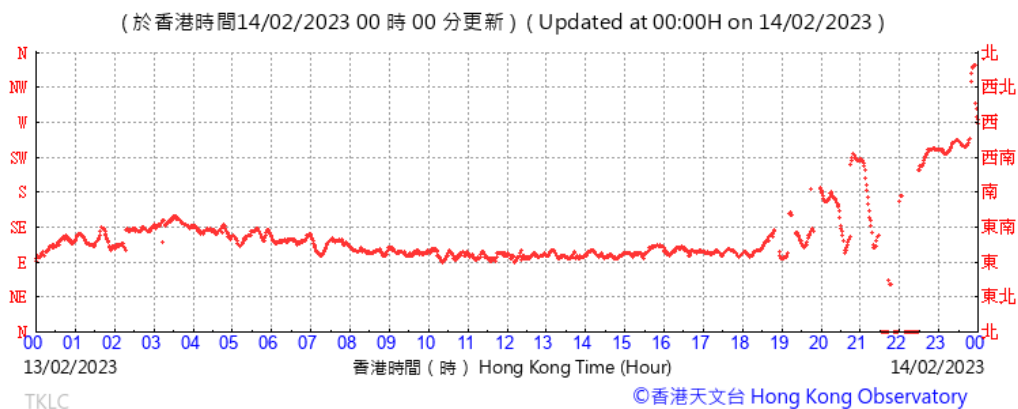
Temperature/Humidity:



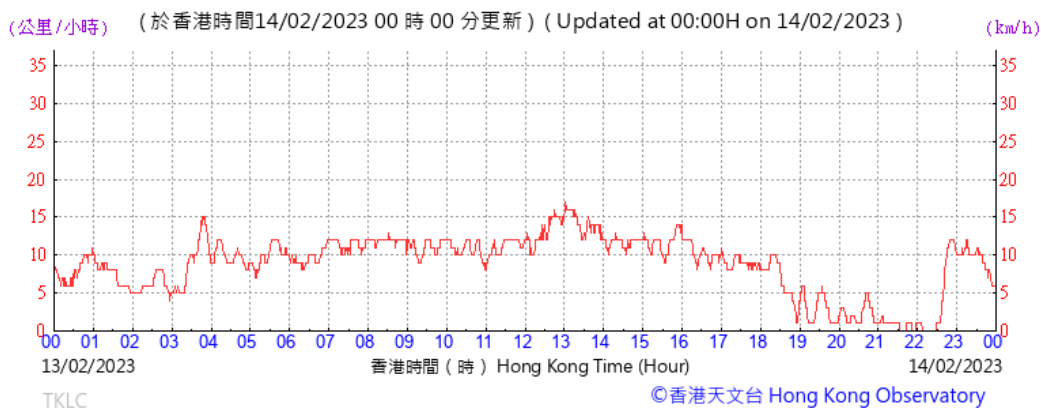
Pressure:



Wind Direction:



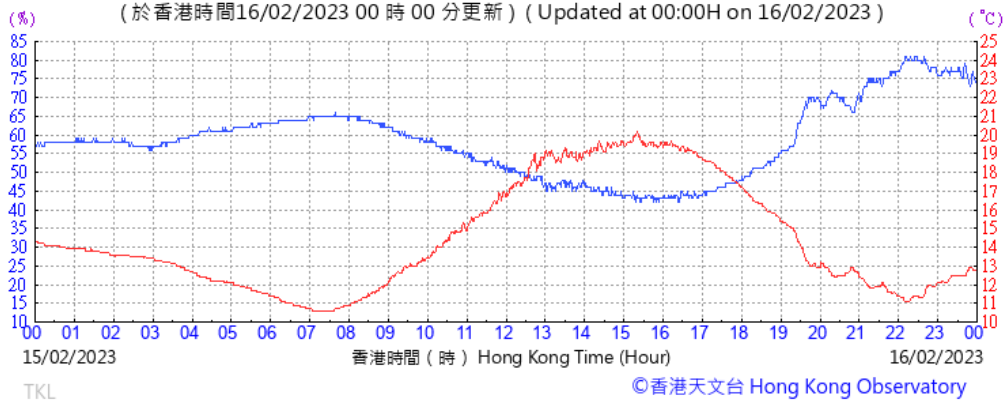
Wind Speed:



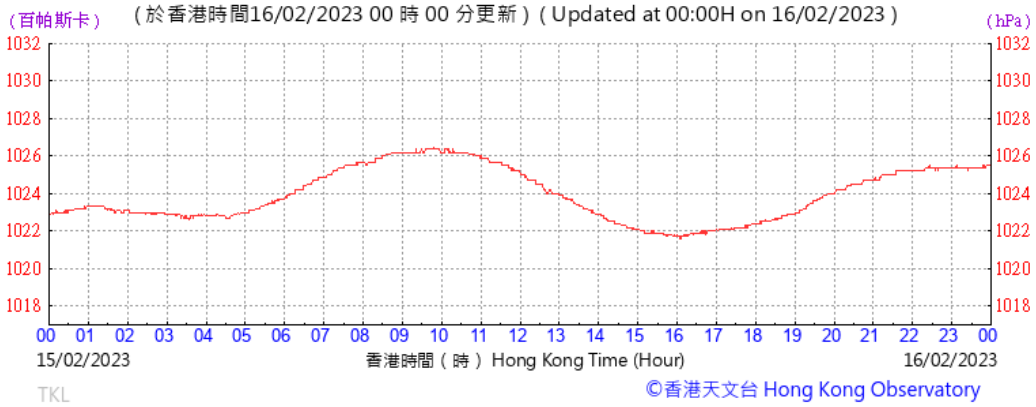
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	Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	N.T.S	No. WMA20001	
Meteorological Data at Ta Kwu Ling Weather Station		Date	Appendix	
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16 February 2023

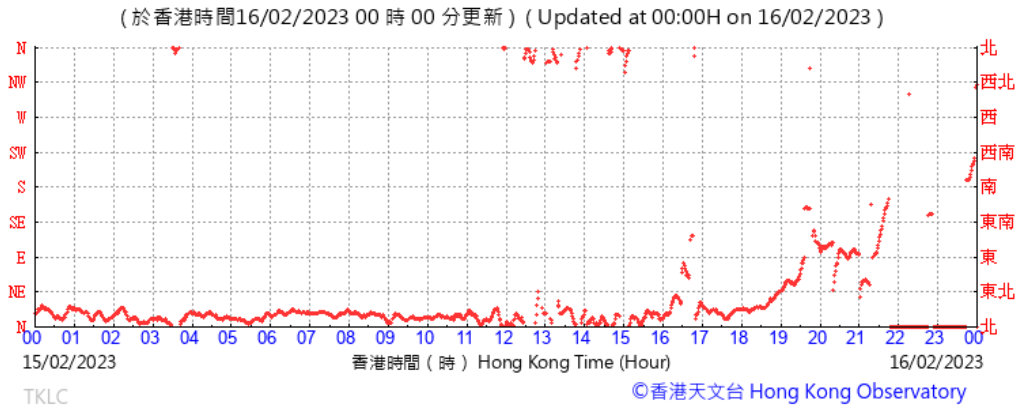
Temperature/Humidity:



Pressure:



Wind Direction:



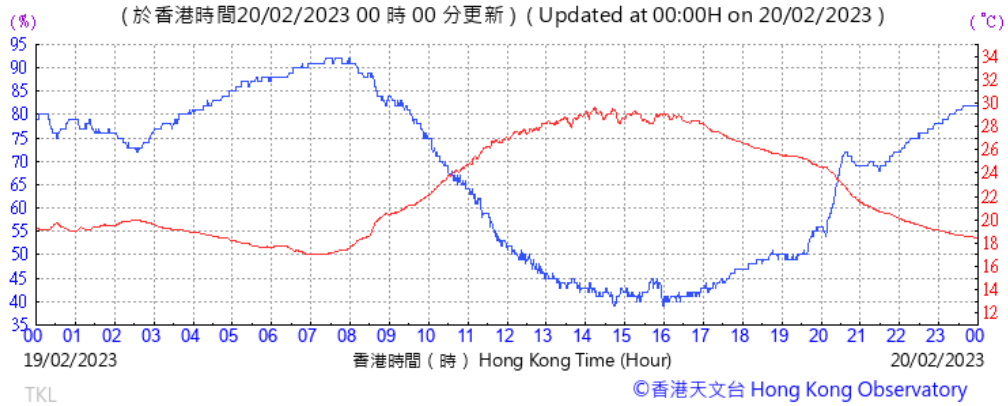
Wind Speed:



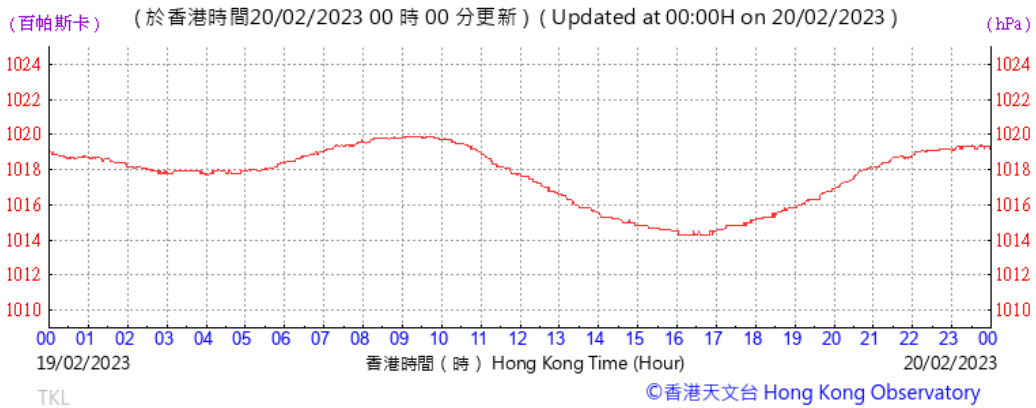
Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale N.T.S	Project No. WMA20001	
	Date Feb 23	Appendix G	

20 February 2023

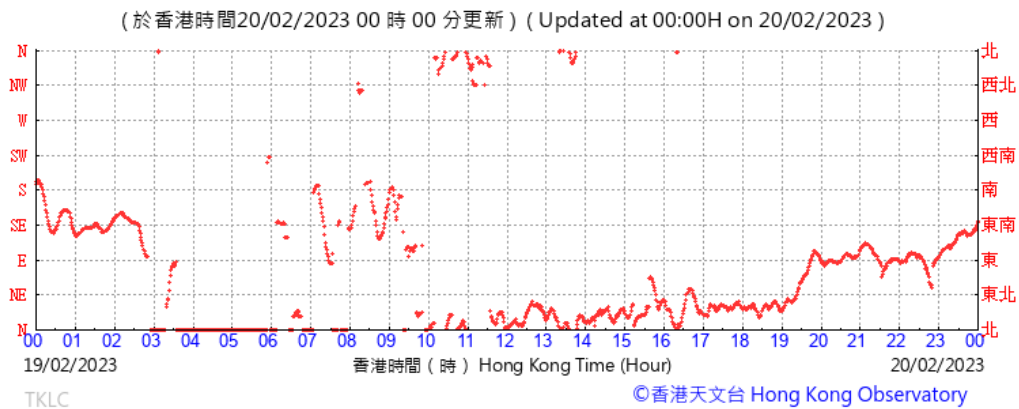
Temperature/Humidity:



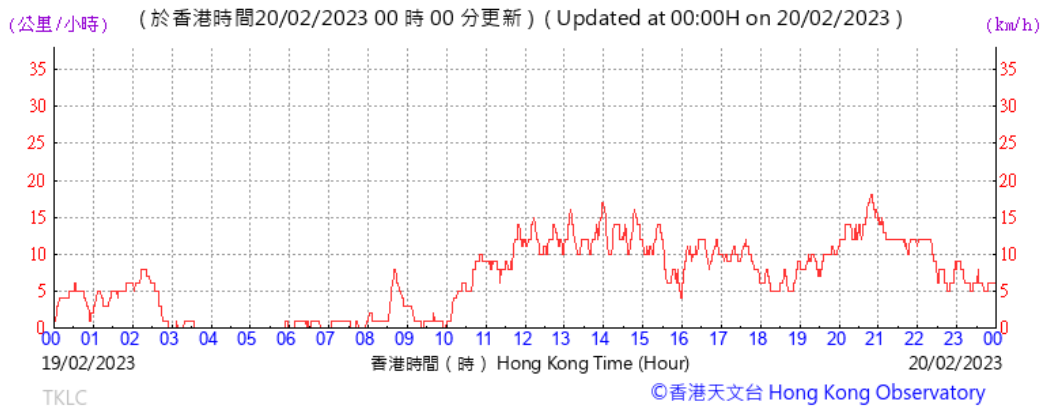
Pressure:



Wind Direction:



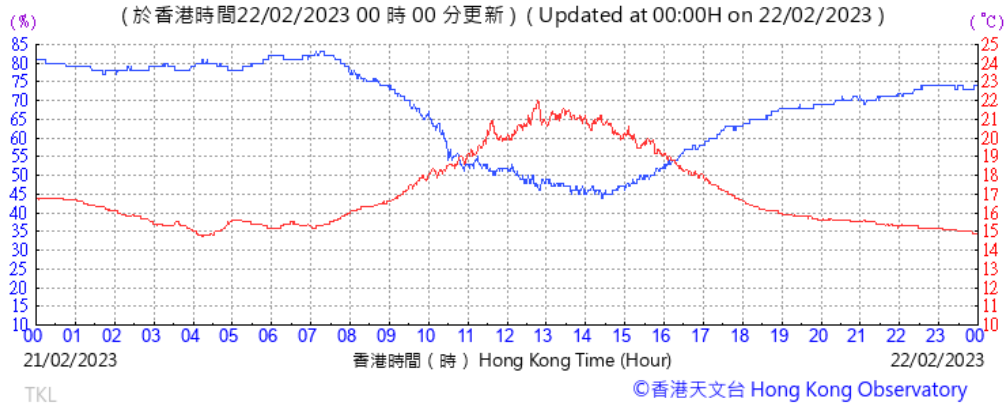
Wind Speed:



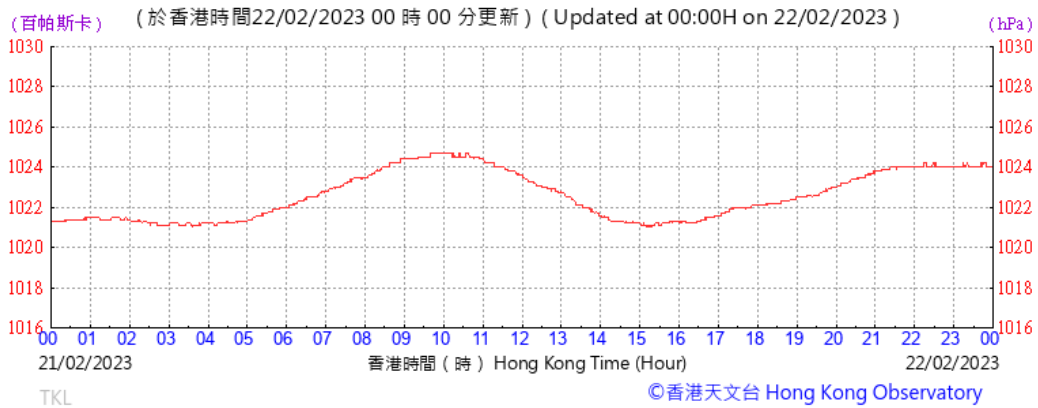
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22 February 2023

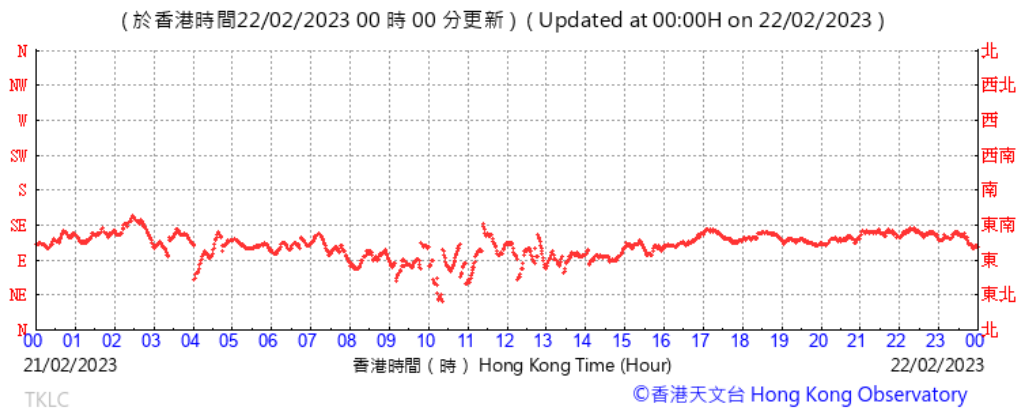
Temperature/Humidity:



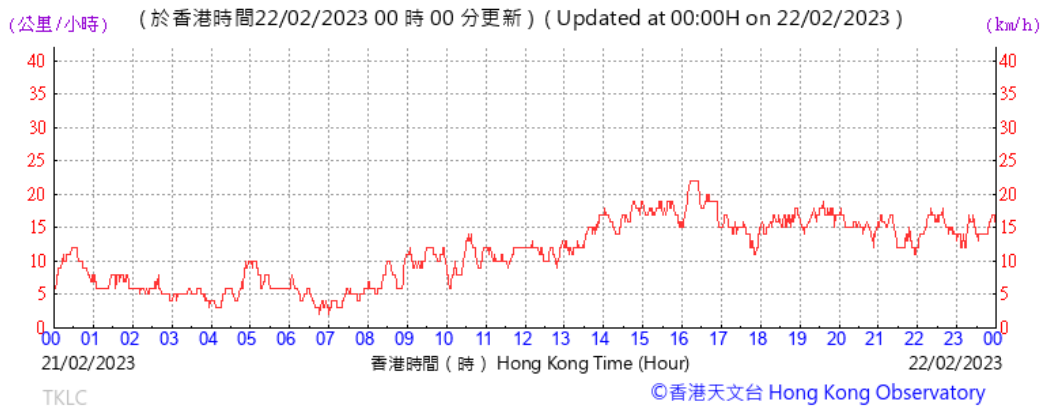
Pressure:



Wind Direction:



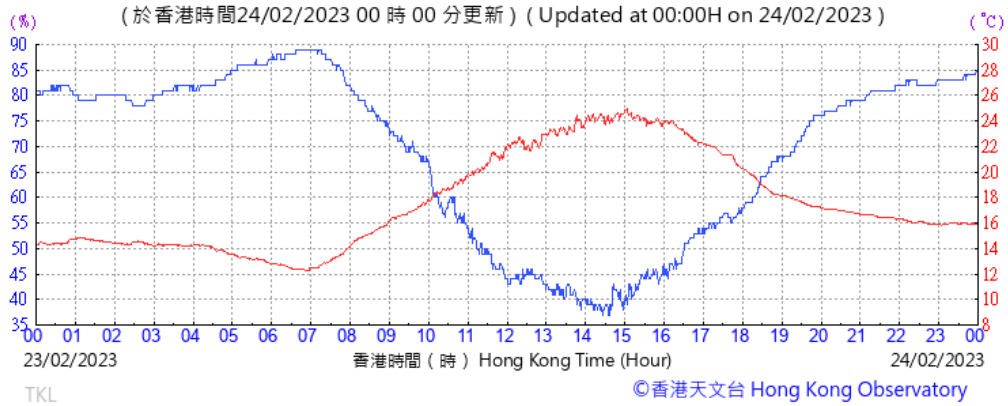
Wind Speed:



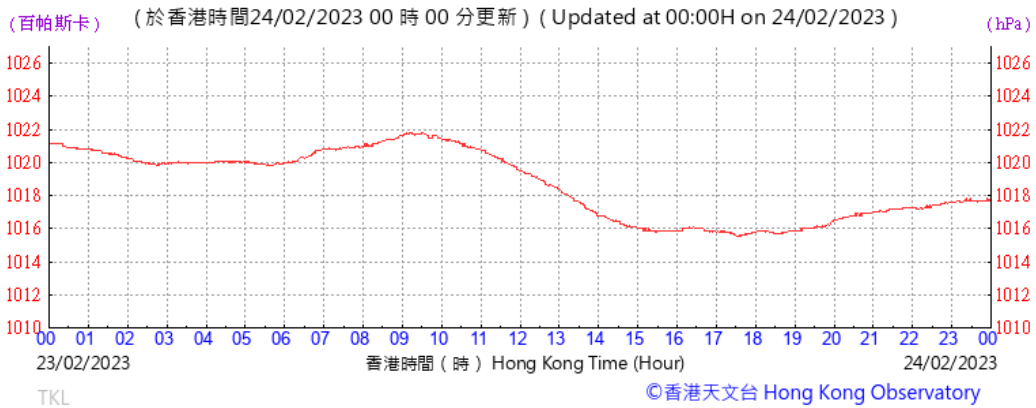
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24 February 2023

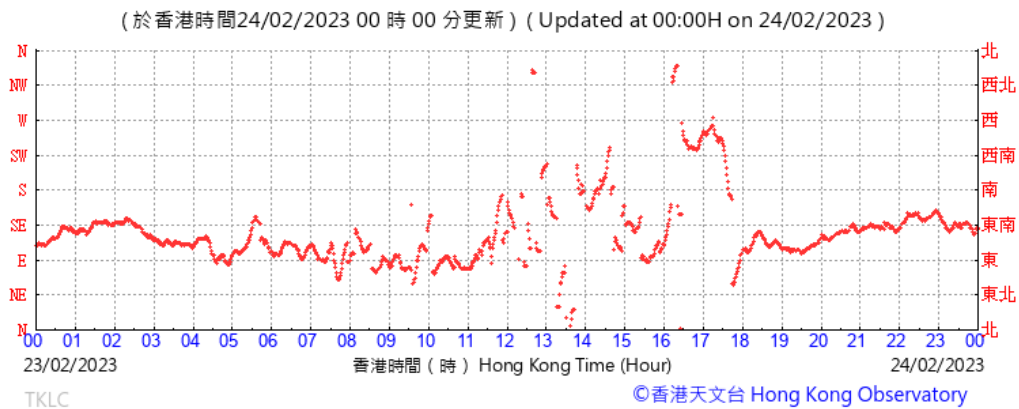
Temperature/Humidity:



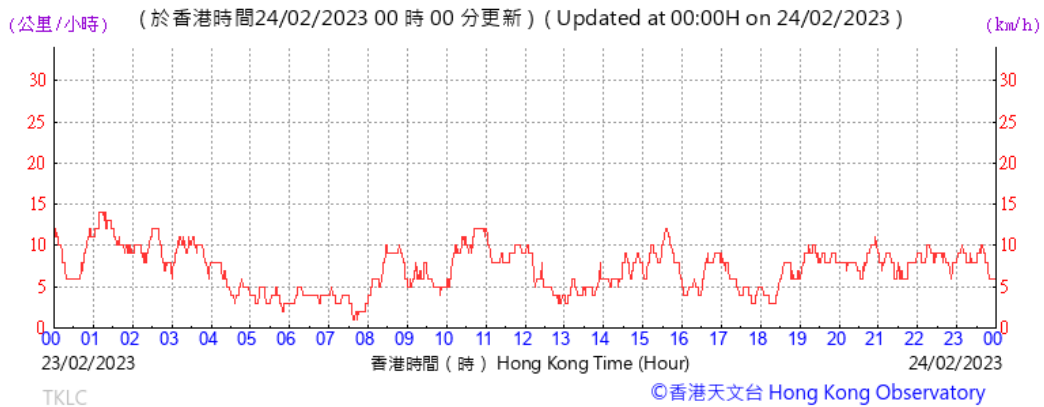
Pressure:



Wind Direction:



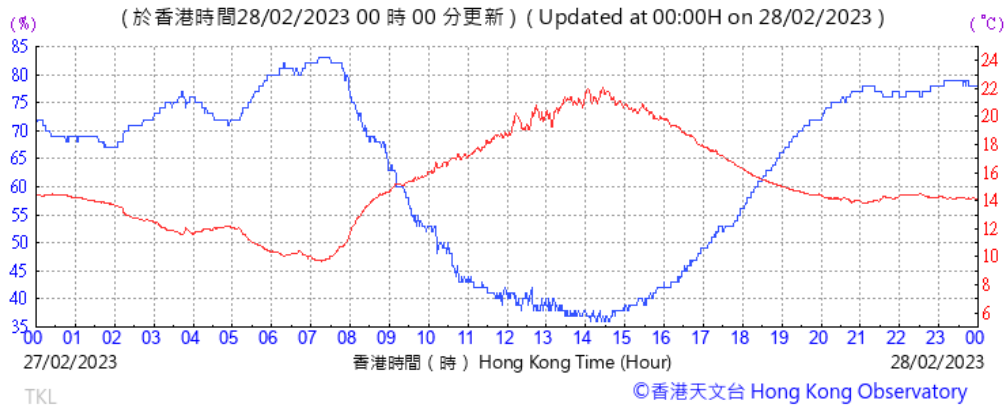
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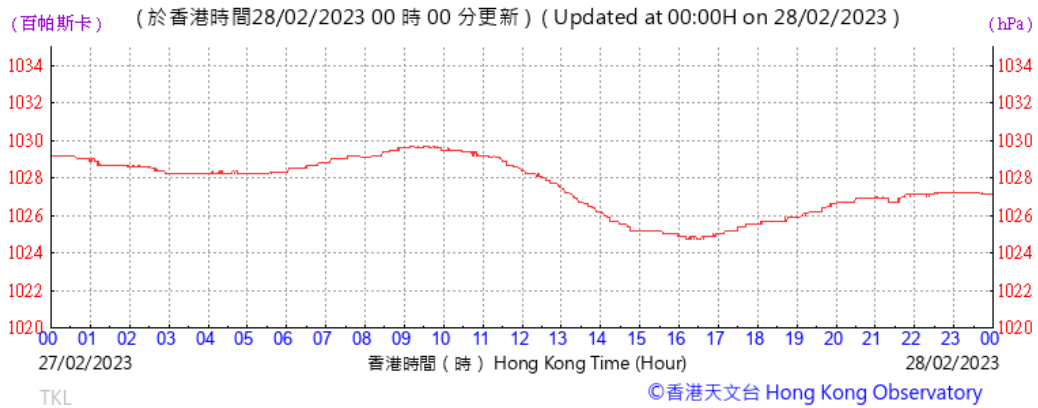
Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale N.T.S	Project No. WMA20001	
	Date Feb 23	Appendix G	

28 February 2023

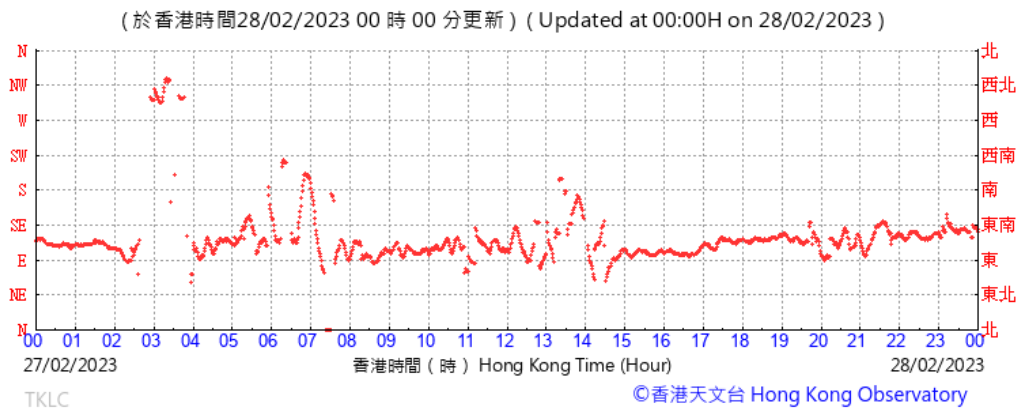
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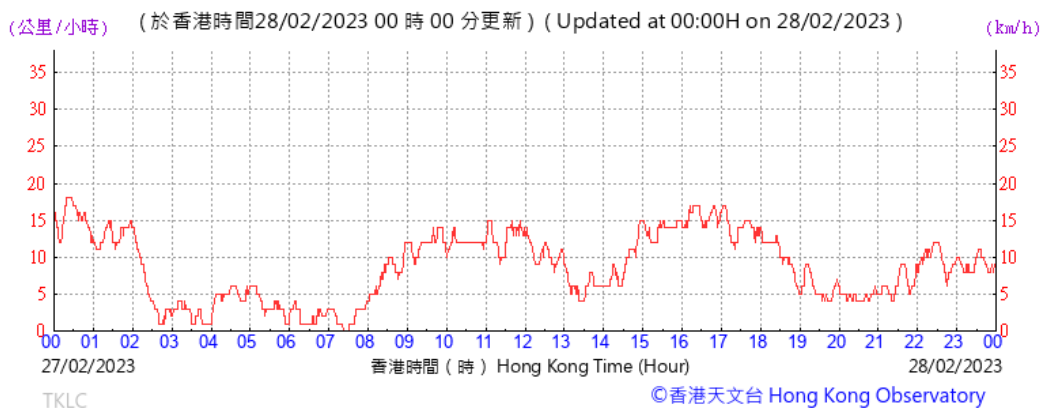
Pressure:



Wind Direction:



Wind Speed:



Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale N.T.S	Project No. WMA20001	consulting . testing . research
	Date Feb 23	Appendix G	

**APPENDIX H
ECOLOGICAL MONITORING RESULTS**

Monthly Monitoring of Flora Species of Conservation Interest
 Service Contract No. NDO 07/2019
 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

Audit Ref. No. 230224

Contract <u>Service Contract No. NDO 07/2019</u> <u>Environmental Team for Site Formation and</u> <u>Infrastructure Works for Police Facilities in</u> <u>Kong Nga Po</u>	Env. Team <u>Wellab Limited</u> Supervisor's Rep. <u>AECOM</u> IEC <u>Acuity Sustainability Consulting Limited</u>
Inspected By <u>ET Auditor: <i>Taylor</i></u> Supervisor's Rep.: <u><i>MS. Malobay Chery</i></u> IEC: <u><i>MS. Malobay Chery</i></u>	Inspection Date <u><i>24 February 2019</i></u> Time Period <u><i>9:30 ~ 10:50</i></u>

Part A Weather

Condition Sunny Fine Overcast Drizzle Rain Storm Hazy

Temperature 20 °C

Humidity High (RH>90%) Moderate (90%>RH>50%) Low (RH<50%)

Wind Calm Light Breeze Strong

Part B	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
1. <i>Brainea insignis</i>						
1.1 Are the plants' health conditions satisfactory?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Except those affected by the bushfire</i>
1.2 Are transplanted plants on site protected carefully?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.3 Are the temporary protective fence properly erected and maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.4 Are the plant protection zone set 1m from the plants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5 Are all grassed and planted area kept free from weeds/unwanted plants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.6 Is compaction of the soil avoided for the plants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.7 Are litter/ unwanted material removed within the planting area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.8 Are equipment or stockpile placed outside the protection zone?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.9 Are soil, debris or construction materials deposited around and against the trunk of a plant as this causes bark damage avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.10 Are fixings driven into plants avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.11 Are the plants used for anchoring or winching purposes or for the display of signs avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.12 Are the fire lit below the branches and petrol, oil or caustic substances stored near the plants avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.13 Are all plants kept free from pest, disease or fungal infection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.14 Are there enough area for growth and development of plant roots?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.15a Is exposure of plant roots avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.15b If not, were broken off or rotting of roots avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Monthly Monitoring of Flora Species of Conservation Interest
 Service Contract No. NDO 07/2019
 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
2. <i>Spiranthes sinensis</i>						
2.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.15a	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.15b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. <i>Keteleeria fortunei</i>						
3.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Except Foot 2. F-wood identified dead in the previous month.
3.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Except F-wood 1 (internal decay)
3.14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.15a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.15b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.16	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Except F-wood 2, F-wood, F-wood with hand pruned
3.17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.18	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Except F-wood, F-wood, F-wood with hand pruned
3.19	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Monthly Monitoring of Flora Species of Conservation Interest
 Service Contract No. NDO 07/2019
 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
4. <i>Aquilaria sinensis</i> (for understory seedling)						
4.1 Are the trees' health conditions satisfactory?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.2 Are existing trees to be retained on site protected carefully?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.3 Are the temporary protective fence properly erected and maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.4 Are the trees protection zone set 1m from the trees?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.5 Are all grassed and planted area kept free from weeds/unwanted plants?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.6 Is compaction of the soil avoided for the trees?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.7 Are litter/ unwanted material removed within the planting area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.8 Are equipment or stockpile placed outside the protection zone?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.9 Are soil, debris or construction materials deposited around and against the trunk of a trees as this causes bark damage avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.10 Are fixings driven into trees avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.11 Are the trees used for anchoring or winching purposes or for the display of signs avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.12 Are the fire lit below the branches and petrol, oil or caustic substances stored near the trees avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.13 Are all trees kept free from pest, disease or fungal infection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.14 Are there enough area for growth and development of tree roots?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.15a Is exposure of tree roots avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.15b If not, were broken off or rotting of roots avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.16 Are wounds/mechanical injuries avoided on tree trunk?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.17 Are leaning of trees avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.18 Are dead/detached branches avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.19 Are decay/cavity avoided on tree trunks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Monthly Monitoring of Flora Species of Conservation Interest
 Service Contract No. NDO 07/2019
 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

Part C Follow-up for the Previous Site Audit on Date: <u>20 Jan 23</u> (Ref. No. <u>230120</u>)		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
1.	Is the situation in item <u>(2)</u> improved/rectified?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Remarks/Observations

- ① Protection fence was observed properly erected and maintained surrounding the trees/plants.
- ② No construction activities was observed at the location of the flora species of conservation interest.

Signatures:

ET Auditor

(Name: Tuy)
 (Date: 24/2/2023)

IEC Auditor

(Name: Melody Cheng)
 (Date: 24/2/2023)

Supervisor's Rep.

(Name: _____)
 (Date: _____)

Contractor's Representative

(Name: _____)
 (Date: _____)

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 24th February 2023

1. *Brainea insignis*

<p>Photo 1</p>  <p>24/02/2023</p> <p>Description: Protective fence for transplanted <i>Brainea insignis</i> are properly erected.</p>	<p>Photo 2</p>  <p>24/02/2023</p> <p>Description: Protective fence for transplanted <i>Brainea insignis</i> are properly erected.</p>
<p>Photo 3</p>  <p>24/02/2023</p> <p>Description: General view of transplanted <i>Brainea insignis</i>.</p>	<p>Photo 4</p>  <p>24/02/2023</p> <p>Description: General view of transplanted <i>Brainea insignis</i>.</p>

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 24th February 2023

2. *Spiranthes sinensis*

Photo 5



Description: Protective fence for transplanted *Spiranthes sinensis* are properly erected.

Photo 6



Description: Protective fence for transplanted *Spiranthes sinensis* are properly erected.

Photo 7



Description: Flower buds of *Spiranthes sinensis* are observed.

Photo 8



Description: Flowering of *Spiranthes sinensis* are observed.

Photo 9



Description: Flower buds of *Spiranthes sinensis* are observed.

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 24th February 2023

3. *Keteleeria fortunei*

Photo 10



Description: Protective fence for *Keteleeria fortunei* are properly erected.

Photo 11



Description: Protective fence for *Keteleeria fortunei* are properly erected.

Photo 12



Description: General view of *Keteleeria fortunei*

Photo 13



Description: General view of *Keteleeria fortunei*

Photo 14



Description: The Contractor has arranged Landscape Specialist to visit those *Keteleeria fortune* with broken branches. According to Landscape Specialist, no action is required at this stage. The Contractor was reminded to closely monitor the health condition of those *Keteleeria fortune* with hard pruned.

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 24th February 2023

4. Undersized seedling of *Aquilaria sinensis*

Photo 15



Description: Protective fence for undersized seedling of *Aquilaria sinensis* are properly erected.

Photo 16



Description: General view of undersized seedling of *Aquilaria sinensis*

Photo 17



Description: General view of undersized seedling of *Aquilaria sinensis*

Post-Transplantation
Monitoring Record
Conducted by Contractor

Contract No.: SS K509
Design and Construction of
Kong Nga Po Police Training Facilities

Monitoring and Maintenance Works Report

INSPECTION DATE: 25 FEBRUARY 2023

REPORT DATE: 28 FEBRUARY 2023



PREPARED BY:
Lau Siu Yeung, Andy
(UKAA PR5206)

Post-transplantation Monitoring Checklist
Police Facilities in Kong Nga Po

Audit Ref. No. _____

Contract SS K509

Inspected By Lau Siu Yeung

Inspection Date 25/02/2023

Time Period 09:00 to 13:00

Part A Weather

Condition Sunny Fine Overcast Drizzle Rain Storm Hazy

Temperature 21 °C

Humidity High (RH>90%) Moderate (90%>RH>50%) Low (RH<50%)

Wind Calm Light Breeze Strong

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
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Part B

1. Cycadfern *Brainea insignis*

1.1 Are the plants' health conditions satisfactory?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.2 Are transplanted plants on site protected carefully?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.3 Are the temporary protective fence properly erected and maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.4 Are the plant protection zone set 1m from the plants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5 Are all grassed and planted area kept free from weeds/unwanted plants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.6 Is compaction of the soil avoided for the plants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.7 Are litter/ unwanted material removed within the planting area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.8 Are equipment or stockpile placed outside the protection zone?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.9 Are soil, debris or construction materials deposited around and against the trunk of a plant as this causes bark damage avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.10 Are fixings driven into plants avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.11 Are the plants used for anchoring or winching purposes or for the display of signs avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.12 Are the fire lit below the branches and petrol, oil or caustic substances stored near the plants avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.13 Are all plants kept free from pest, disease or fungal infection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.14 Are there enough area for growth and development of plant roots?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.15a Is exposure of plant roots avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.15b If not, were broken off or rotting of roots avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
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2. Ladies Tresses *Spiranthes sinensis*

2.1 Are the plants' health conditions satisfactory?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.2 Are transplanted plants on site protected carefully?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.3 Are the temporary protective fence properly erected and maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.4 Are the plant protection zone set 1m from the plants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.5 Are all grassed and planted area kept free from weeds/unwanted plants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.6 Is compaction of the soil avoided for the plants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.7 Are litter/ unwanted material removed within the planting area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Post-transplantation Monitoring Checklist
Police Facilities in Kong Nga Po

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
2.8 Are equipment or stockpile placed outside the protection zone?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.9 Are soil, debris or construction materials deposited around and against the trunk of a plant as this causes bark damage avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.10 Are fixings driven into plants avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.11 Are the plants used for anchoring or winching purposes or for the display of signs avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.12 Are the fire lit below the branches and petrol, oil or caustic substances stored near the plants avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.13 Are all plants kept free from pest, disease or fungal infection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.14 Are there enough area for growth and development of plant roots?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.15a Is exposure of plant roots avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.15b If not, were broken off or rotting of roots avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
3. <u>Incense Trees <i>Aquilaria sinensis</i></u>						
3.1 Are the trees's health conditions satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.2 Are transplanted trees on site protected carefully?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.3 Are the temporary protective fence properly erected and maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.4 Are the tree protection zone set 1m from the trees?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.5 Are all grassed and planted area kept free from weeds/unwanted plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.6 Is compaction of the soil avoided for the trees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.7 Are litter/ unwanted material removed within the planting area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.8 Are equipment or stockpile placed outside the protection zone?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.9 Are soil, debris or construction materials deposited around and against the trunk of a tree as this causes bark damage avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.10 Are fixings driven into trees avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.11 Are the trees used for anchoring or winching purposes or for the display of signs avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.12 Are the fire lit below the branches and petrol, oil or caustic substances stored near the trees avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.13 Are all trees kept free from pest, disease or fungal infection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.14 Are there enough area for growth and development of tree roots?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.15a Is exposure of tree roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.15b If not, were broken off or rotting of roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.16 Are wounds/mechanical injuries avoided on tree trunk?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.17 Are leaning of trees avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.18 Are dead/detached branches avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.19 Are decay/cavity avoided on tree trunks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Post-transplantation Monitoring Checklist
Police Facilities in Kong Nga Po

Part C Follow-up for the Previous Site Audit on Date: _____ (Ref. No. _____)		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
1.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
7.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
8.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
9.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
10.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Remarks/Observations

Most of the Cycad-fern (*Brainea insignis*) described with poor health condition in previous report found with basal leaves germinated from the base of stem and the health condition was expected to be improved.

Signatures: _____

Contractor's Representative

Supervisor's Rep.

(Name: Lau Siu Yeung)
(Date: 28/02/2023)

(Name: _____)
(Date: _____)

Tree/Plant/ Colony No.	Number of Individuals	Species Name	Form (Good/Fair/Poor)	Health (Good/Fair/Poor)	Remark
C-0001	01	<i>Brainea insignis</i>	F	F	Young leaves observed
	02	<i>Brainea insignis</i>	F	F	-
	03	<i>Brainea insignis</i>	F	F	-
	04	<i>Brainea insignis</i>	F	F	-
	05	<i>Brainea insignis</i>	F	F	Slightly entangled by <i>Dicranopteris pedata</i> nearby
	06	<i>Brainea insignis</i>	F	F	Young leaves observed
	07	<i>Brainea insignis</i>	F	P	-
	08	<i>Brainea insignis</i>	F	F	-
C-0002	01	<i>Brainea insignis</i>	F	F	-
	02	<i>Brainea insignis</i>	F	F	-
	03	<i>Brainea insignis</i>	F	P	Young leaves at base
	04	<i>Brainea insignis</i>	F	F	-
	05	<i>Brainea insignis</i>	F	F	-
	06	<i>Brainea insignis</i>	F	F	-
	07	<i>Brainea insignis</i>	F	F	-
	08	<i>Brainea insignis</i>	F	F	-
C-0003	01	<i>Brainea insignis</i>	F	F	-
C-0004	01	<i>Brainea insignis</i>	P	P	Young leaves at base; Dry out caused by bushfire initially outside site boundary and high temperature on 2 Feb 2021
	02	<i>Brainea insignis</i>	F	F	-
	03	<i>Brainea insignis</i>	F	F	-
	04	<i>Brainea insignis</i>	F	F	-
	05	<i>Brainea insignis</i>	F	F	-
	06	<i>Brainea insignis</i>	F	F	-
	07	<i>Brainea insignis</i>	F	F	identified in the vicinity of C-0004-06
	08	<i>Brainea insignis</i>	F	P	Young leaves at base
	09	<i>Brainea insignis</i>	P	P	Dry out caused by bushfire initially outside site boundary and high
	10	<i>Brainea insignis</i>	P	P	Young leaves at base
	11	<i>Brainea insignis</i>	F	P	identified in the vicinity of C-0008-02 and C-0004-08
	12	<i>Brainea insignis</i>	F	F	Young leaves observed
	13	<i>Brainea insignis</i>	-	-	Stem not found Dry out caused by bushfire initially outside site boundary and high temperature on 2 Feb 2021
	14	<i>Brainea insignis</i>	F	F	Young leaves observed
	15	<i>Brainea insignis</i>	P	P	Young leaves at base; Dry out caused by bushfire initially outside site boundary and high temperature on 2 Feb 2021
	16	<i>Brainea insignis</i>	P	P	Dry out caused by bushfire initially outside site boundary and high
	17	<i>Brainea insignis</i>	P	P	Young leaves observed
	18	<i>Brainea insignis</i>	-	-	Burned by bushfire initially outside the site boundary on 2 Feb 2021.
	19	<i>Brainea insignis</i>	F	P	-
	20	<i>Brainea insignis</i>	F	F	-

Contract No.: SS K509

Design and Construction of Kong Nga Po Police Training Facilities

Monitoring and Maintenance Works for Flora Species of Conservation Interest

Inspection Date:

25/02/2023

Tree/Plant/ Colony No.	Number of Individuals	Species Name	Form (Good/Fair/Poor)	Health (Good/Fair/Poor)	Remark
C-0005	01	<i>Brainea insignis</i>	F	F	-
	02	<i>Brainea insignis</i>	F	F	-
	03	<i>Brainea insignis</i>	F	F	Young leaves observed
	04	<i>Brainea insignis</i>	F	F	Young leaves observed
	05	<i>Brainea insignis</i>	F	P	Young leaves at base
	06	<i>Brainea insignis</i>	F	F	-
	07	<i>Brainea insignis</i>	F	F	-
C-0006	01	<i>Brainea insignis</i>	P	F	-
C-0007	01	<i>Brainea insignis</i>	F	F	-
	02	<i>Brainea insignis</i>	F	P	-
C-0008	01	<i>Brainea insignis</i>	F	F	Young leaves observed
	02	<i>Brainea insignis</i>	F	F	-
	03	<i>Brainea insignis</i>	P	P	-
	04	<i>Brainea insignis</i>	F	F	-
	05	<i>Brainea insignis</i>	F	F	Young leaves observed
	06	<i>Brainea insignis</i>	F	P	-
	07	<i>Brainea insignis</i>	F	P	Young leaves at base
C-0009	01	<i>Brainea insignis</i>	F	F	Young leaves observed
C-0010	01	<i>Brainea insignis</i>	F	F	-
	02	<i>Brainea insignis</i>	F	F	-
	03	<i>Brainea insignis</i>	F	F	-
C-0011	01	<i>Brainea insignis</i>	P	P	Dry out caused by bushfire initially outside site boundary and high temperature on 2 Feb
	02	<i>Brainea insignis</i>	F	P	-
	03	<i>Brainea insignis</i>	P	P	Young leaves at base
	04	<i>Brainea insignis</i>	F	F	-
	05	<i>Brainea insignis</i>	F	P	Young leaves at base
	06	<i>Brainea insignis</i>	F	F	-
	07	<i>Brainea insignis</i>	P	P	Young leaves at base
	08	<i>Brainea insignis</i>	F	F	Young leaves observed
	09	<i>Brainea insignis</i>	P	P	-
	10	<i>Brainea insignis</i>	F	F	Young leaves observed
	11	<i>Brainea insignis</i>	F	F	Young leaves observed.
	12	<i>Brainea insignis</i>	P	P	-
	13	<i>Brainea insignis</i>	F	F	-



C-0001(Patch)_01



C-0001(Patch)_02



C-0001(Patch)_03



C-0001(Patch)_04



C-0001(Patch)_05



C-0001(Patch)_06

Contract No.: SS K509
Design and Construction of Kong Nga Po Police Training Facilities
Monitoring and Maintenance Works for Flora Species of Conservation Interest



C-0001(Patch)_07



C-0001(Patch)_08



C-0002(Patch)_01



C-0002(Patch)_02



C-0002(Patch)_03



C-0002(Patch)_04



C-0002(Patch)_05



C-0002(Patch)_06



C-0002(Patch)_07



C-0002(Patch)_08



C0003



C-0004(Patch)_01



C-0004(Patch)_02



C-0004(Patch)_03



C-0004(Patch)_04



C-0004(Patch)_05



C-0004(Patch)_06



C-0004(Patch)_07



C-0004(Patch)_08



C-0004(Patch)_09



C-0004(Patch)_10



C-0004(Patch)_11



C-0004(Patch)_12



C-0004(Patch)_13



C-0004(Patch)_14



C-0004(Patch)_15



C-0004(Patch)_16



C-0004(Patch)_17



C-0004(Patch)_18



C-0004(Patch)_19



C-0004(Patch)_20



C-0005(Patch)_01



C-0005(Patch)_02



C-0005(Patch)_03



C-0005(Patch)_04



C-0005(Patch)_05



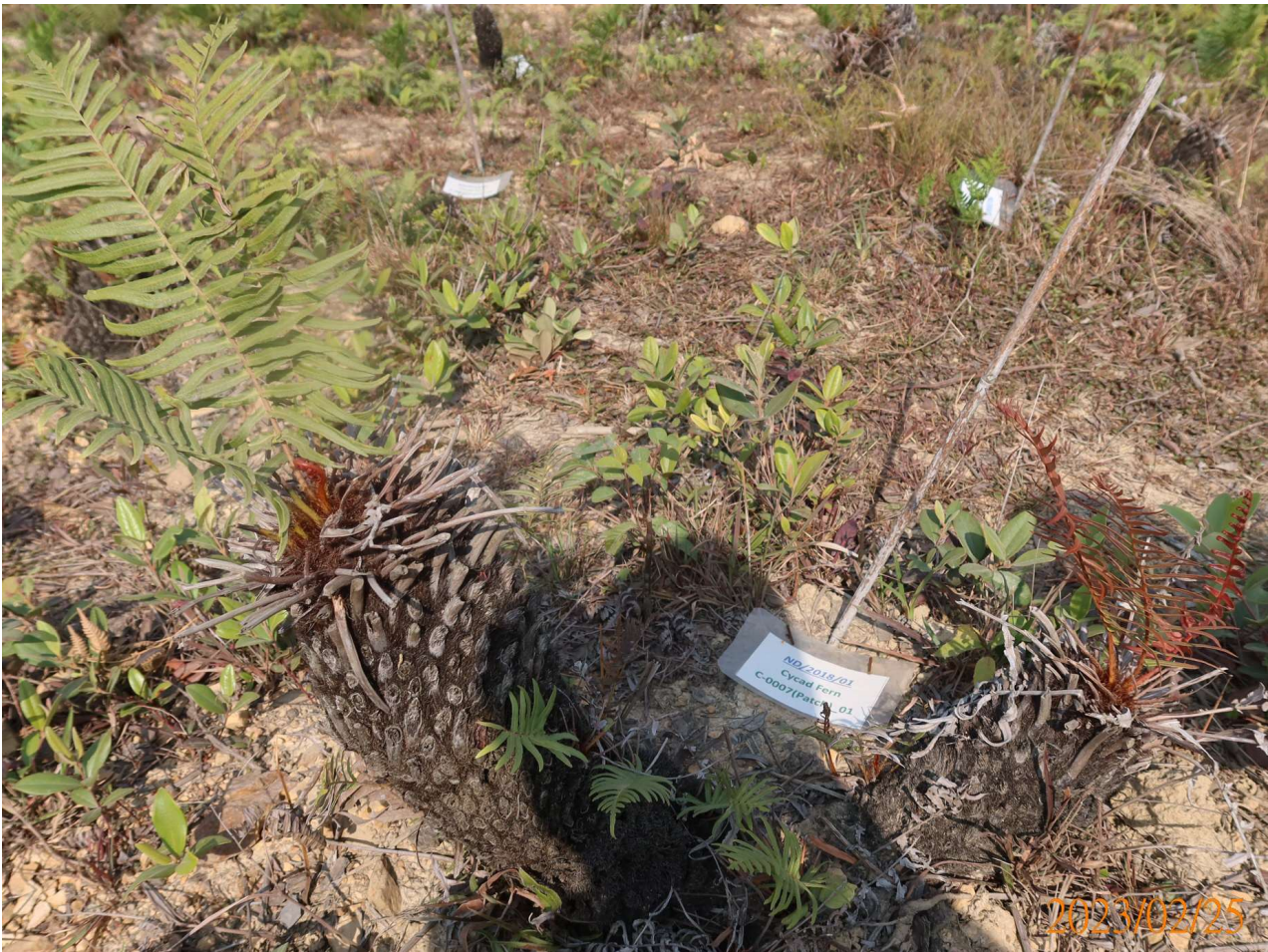
C-0005(Patch)_06



C-0005(Patch)_07



C-0006



C-0007(Patch)_01



C-0007(Patch)_02



C-0008(Patch)_01



C-0008(Patch)_02



C-0008(Patch)_03



C-0008(Patch)_04



C-0008(Patch)_05



C-0008(Patch)_06



C-0008(Patch)_07



C-0009



C-0010(Patch)_01



C-0010(Patch)_02



C-0010(Patch)_03



C-0011(Patch)_01



C-0011(Patch)_02



C-0011(Patch)_03



C-0011(Patch)_04



C-0011(Patch)_05



C-0011(Patch)_06



C-0011(Patch)_07



C-0011(Patch)_08



C-0011(Patch)_09



C-0011(Patch)_10



C-0011(Patch)_11



C-0011(Patch)_12



C-0011(Patch)_13

Contract No.: SS K509

Design and Construction of Kong Nga Po Police Training Facilities

Monitoring and Maintenance Works for Flora Species of Conservation Interest

Inspection Date: 25/02/2023

Tree/Plant/ Colony No.	Species Name	Form (Good/Fair/Poor)	Health (Good/Fair/Poor)	Remark
L-0001	<i>Spiranthes sinensis</i>	-	-	Not observed
L-0002	<i>Spiranthes sinensis</i>	-	-	Not observed
L-0003	<i>Spiranthes sinensis</i>	F	F	Leaf observed
L-0004	<i>Spiranthes sinensis</i>	-	-	Not observed
L-0005	<i>Spiranthes sinensis</i>	-	-	Not observed
L-0006	<i>Spiranthes sinensis</i>	-	-	Not observed
L-0007	<i>Spiranthes sinensis</i>	-	-	Not observed
L-0008	<i>Spiranthes sinensis</i>	F	F	Flowering
L-0009	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00010	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00011	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00012	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00013	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00014	<i>Spiranthes sinensis</i>	F	F	Leaf observed
L-00015	<i>Spiranthes sinensis</i>	F	F	Leaf observed
L-00016	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00018	<i>Spiranthes sinensis</i>	F	F	Flowering
L-00019	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00020	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00021	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00022	<i>Spiranthes sinensis</i>	F	F	Flowering
L-00023	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00024	<i>Spiranthes sinensis</i>	F	F	Leaf observed
L-00025	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00026	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00027	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00028	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00029	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00030	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00031	<i>Spiranthes sinensis</i>	F	F	Flowering
L-00032	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00033	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00034	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00035	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00036	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00037	<i>Spiranthes sinensis</i>	F	F	Flowering
L-00038	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00039	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00040	<i>Spiranthes sinensis</i>	F	F	Flowering
L-00041	<i>Spiranthes sinensis</i>	-	-	Not observed
L-00042	<i>Spiranthes sinensis</i>	-	-	Not observed

Contract No.: SS K509
Design and Construction of Kong Nga Po Police Training Facilities
Monitoring and Maintenance Works for Flora Species of Conservation Interest



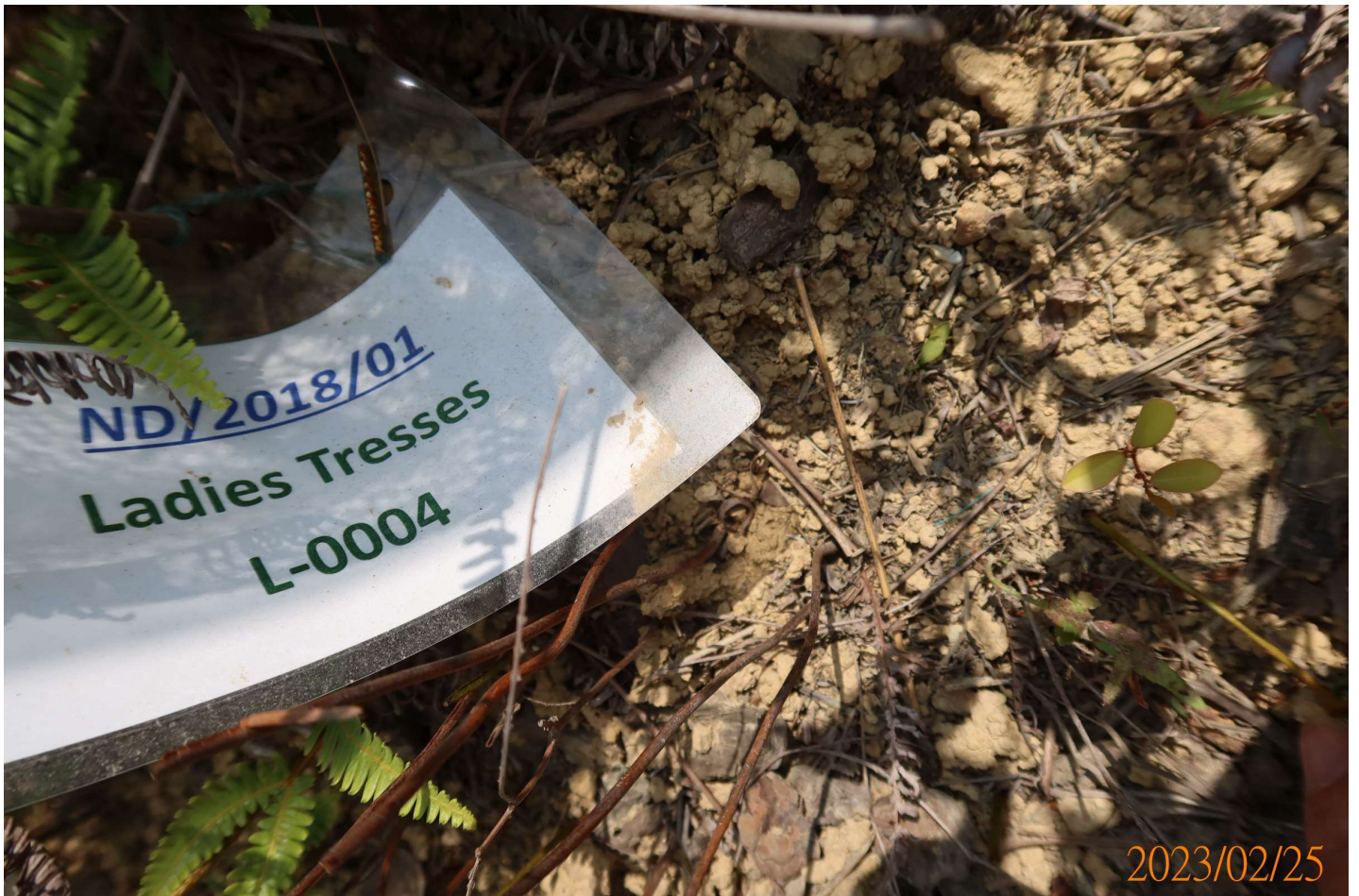
L-0001



L-0002



L-0003



L-0004



L-0005



L-0006



L-0007



L-0008

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L-0009



L-0010



L-0011



L-0012



L-0013



L-0014



L-0015



L-0016



L-0018



L-0019



L-0020



L-0021

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Monitoring and Maintenance Works for Flora Species of Conservation Interest



L-0022



L-0023



L-0024



L-0025



L-0026



L-0027



L-0028



L-0029



L-0030



L-0031



L-0032



L-0033



L-0034



L-0035



L-0036



L-0037



L-0038



L-0039



L-0040



L-0041



L-0042

Contract No.: SS K509

Design and Construction of Kong Nga Po Police Training Facilities

Monitoring and Maintenance Works for Flora Species of Conservation Interest

Hong Da Landscaping Limited

Vegetation Maintenance Record Sheet (February 2023)

Description of Work	Date																											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Watering																												
Weeding																										✓		
Fertilization																												
Pest/Disease Control																												
Firming up																												
Trimming of Wilted Foliage																									✓			
Mulching																												
Inspection																									✓			
Checking of Protection Zone																									✓			
Remarks												H													L	L		

Public Holiday H-Hot D-Drizzle R-Rainy W-Windy RH-High Humidity MH-Medium Humidity LH-Low Humidity

**APPENDIX I
EVENT ACTION PLANS**

Appendix I:**Table I-1: Event / Action Plan for Air Quality**

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC,ER and Contractor; 3. Repeat measurement to confirm finding; and 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice: 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC, ER and Contractor; 3. Advise the WKCDA on the effectiveness of the proposed remedial measure; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; and	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; and 5. Monitor Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; and 3. Amend proposal if appropriate.

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
	8. If exceedance stops, cease additional monitoring.			
LIMIT LEVEL				
1.Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; and 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and the ER informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; and 5. Monitor the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; and 4. Amend proposal if appropriate.
2.Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify IEC, the ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with IEC, agree with the Contractor on the remedial measures to be implemented; 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals;

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
	possible mitigation to be implemented; 6. Arrange meeting with IEC, and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor’s remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.	4. Review Contractor’s remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and 5. Monitor implementation of remedial measures.	4. Ensure remedial measures properly implemented; and 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedances is abated.	4. Resubmit proposals if problem still not under control; and 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer’s Representative

Table I-2: Event / Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level	<ol style="list-style-type: none"> 1. Notify ER, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; and 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the monitoring data submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise ER; and 3. Advise the ER on the effectiveness of the proposed remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measure to be implemented; and 4. Supervise the implementation of remedial measure. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC and ER; and 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 1. Inform IEC, ER and Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase the monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on 	<ol style="list-style-type: none"> 1. Discuss amongst the ER, ET, and Contractor on the potential remedial actions; and 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify the Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; and 5. If exceedance continues, consider 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to the IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; and 5. Stop the relevant portion of works as

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
	remedial measure required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.		stopping the Contractor to continue working in that portion of work which causes the exceedance until the exceedance is abated.	determined by the ER until the exceedance is abated.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Table I-3: Event / Action Plan for Landscape and Visual Mitigation Measures

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Non-conformity on one occasion	Identify source. Inform IEC and ER. Discuss remedial actions with IEC, ER and Contractor. Monitor remedial actions until rectification has been completed.	Check report. Check Contractor's working method. Discuss with ET and Contractor on possible remedial measures. Advise ER on effectiveness of proposed remedial measures. Check implementation of remedial measures.	Notify Contractor. Ensure remedial measures are properly implemented	Amend working methods to prevent recurrence of nonconformity. Rectify damage and undertake additional action necessary.
Repeated Nonconformity	Identify source. Inform IEC and ER. Increase monitoring frequency. Discuss remedial actions with IEC, ER and Contractor. Monitor remedial actions until rectification has been completed. If non-conformity stops, cease additional monitoring.	Check monitoring report. Check Contractor's working method. Discuss with ET and Contractor on possible remedial measures. Advise ER on effectiveness of proposed remedial measures. Supervise implementation of remedial measures.	Notify Contractor. Ensure remedial measures are properly implemented.	Amend working methods to prevent recurrence of nonconformity. Rectify damage and undertake additional action necessary.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

APPENDIX J
SUMMARY OF EXCEEDANCE

Appendix J: Exceedance Report**(A) Exceedance Report for Air Quality**

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract		Cumulative No. of Exceedance recorded
		Action Level	Limit Level	Action Level	Limit Level	
Air Quality	1-hr TSP	0	0	0	0	0

(B) Exceedance Report for Construction Noise

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract		Cumulative No. of Exceedance recorded
		Action Level	Limit Level	Action Level	Limit Level	
Noise	$L_{eq(30 \text{ min.})}$ dB(A)	0	0	0	0	6

**APPENDIX K
ENVIRONMENTAL MITIGATION
IMPLEMENTATION SCHEDULE (EMIS)**

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
Air Quality Impact – Construction Phase							
3.91	2.2	<p>Dust Control Measures</p> <p>To achieve compliance with the FSP, RSP and TSP criteria during the construction phase, good practices for dust control should be implemented to reduce dust impacts. The dust control measures are detailed as follows:</p> <ul style="list-style-type: none"> • Use of regular water spraying (once every 1.25 hours or 8 times per day) to reduce dust emissions from heavy construction activities (including ground excavation, earth moving, etc.) at all active works area exposed site surfaces and unpaved roads, particularly during dry weather. • Covering 80% of stockpiling area by impervious sheets and spraying all dusty material with water immediately prior to any loading transfer operations to keep the dusty materials wet during material handing at the stockpile areas. 	Construction Dust	Contractor	Project construction site / Duration of the construction phase / Prior to commencement of operation	Construction phase	^
		<p>Relevant dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted:</p> <p>Good Site Management</p> <ul style="list-style-type: none"> • Good site management is important to help reduce potential air quality impact down to an acceptable level. 					^

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		<p>As a general guide, the Contractor should maintain high standards of housekeeping to prevent emissions of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or byproducts should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.</p>					
		<p>Disturbed Parts of the Roads</p> <ul style="list-style-type: none"> • Main temporary access points should be paved with concrete, bituminous hardcore materials or metal plates and be kept clear of dusty materials; or • Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road wet. 					^
		<p>Exposed Earth</p> <ul style="list-style-type: none"> • Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seeding with latex, 					^

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		vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies.					
		<p>Loading, Unloading or Transfer of Dusty Materials</p> <ul style="list-style-type: none"> All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. 					^
		<p>Debris Handling</p> <ul style="list-style-type: none"> Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. Before debris is dumped into a chute, water should be sprayed onto the debris so that it remains wet when it is dumped. 					^
		<p>Transport of Dusty Materials</p> <ul style="list-style-type: none"> Vehicles used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. 					^
		<p>Wheel Washing</p> <ul style="list-style-type: none"> Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the 					^

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		<p>construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.</p> <p>Use of Vehicles</p> <ul style="list-style-type: none"> • The speed of the trucks within the site should be controlled to about 10 km/hour in order to reduce adverse dust impacts and secure the safe movement around the site • Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. • Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle. <p>Site hoarding</p> <ul style="list-style-type: none"> • Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. 					<p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p>

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<i>Noise Impact – Construction Phase</i>							
4.4.6	3.2	<p>Good Site Practice</p> <p>Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs.</p> <p>The following package of measures should be followed during each phase of construction:</p> <ul style="list-style-type: none"> • Only well-maintained plant to be operated onsite and plant should be serviced regularly during the construction works; • Machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum; • Plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; • Mobile plant should be sited as far away from NSRs as possible; and • Material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. 	Maintain good site practice to minimise / avoid construction noise impact	Contractor	Within the Project site / During construction phase / Prior to commencement of operation.	Construction Phase	^ ^ ^ ^
4.4.6	3.2	<p>Adoption of QPME</p> <ul style="list-style-type: none"> • QPME should be adopted as far as applicable. 	Minimise/ avoid construction noise	Contractor	Within the	Construction Phase	^

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4.4.6	3.2	Use of Movable Barriers <ul style="list-style-type: none"> Movable noise barriers should be placed along the active works area and mobile plants to block the direct line of sight between PME and the NSRs. 	impacts to the surrounding NSRs		Project site / During construction phase / Prior to commencement of operation.		^
4.4.6	Use of Noise Enclosure/ Acoustic Shed <ul style="list-style-type: none"> Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator. 	N/A					
4.4.6	Use of Noise Insulating Fabric <ul style="list-style-type: none"> Noise insulating fabric can also be adopted for certain PME (e.g. pilling machine etc.). 	^					
Water Quality Impact – Construction Phase							
5.6.1.1	4.2	General Construction Activities The following measures should be implemented: <ul style="list-style-type: none"> Construction waste, debris and refuse generated on-site should be stored or contained appropriately to prevent them entering nearby watercourses or blocking stormwater drains. Regular off-site removal of these materials should be maintained to minimise the volume of waste present on the construction site at any one time. Stockpiles of construction materials such as cement and 	Maintain good site practices to avoid pollution of water courses	Contractor	Within the Project site / During construction phase	Construction Phase	^ ^ ^

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		excavated material should be covered when not in use to reduce the potential for water pollution.					
5.6.1.2	4.2	<p>Construction Site Runoff</p> <p>The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended:</p> <ul style="list-style-type: none"> • Temporary site drainage facilities are to be designed and implemented by the Contractor prior to commencement of construction to convey surface runoff to storm drains applying adequately designed silt/ sand removal traps and sediment basins. • Perimeter cut-off drains shall be installed in advance of any earthworks and site formation work to convey site runoff from the works areas to the silt removal facilities. • Runoff into the excavation areas during rainstorm events shall be minimised as far as practicable. Any wastewater pumped out of the excavation areas shall be treated to remove suspended solids prior to discharge. • Maintenance and inspection of the drainage system and sediment removal facilities should be carried out regularly to remove any sediment and blockages, especially when 	Minimise / control construction site runoff to avoid pollution of water courses	Contractor	Within the Project site / During construction phase	Construction Phase	<p style="text-align: right;">^</p> <p style="text-align: right;">^</p> <p style="text-align: right;">^</p> <p style="text-align: right;">*</p>

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		<p>rainstorms are forecast.</p> <ul style="list-style-type: none"> • Final surface levels should be compacted and final surface protections installed to prevent erosion caused by rainstorms. • Open stockpiles of material should be covered on site with waterproof layers such as tarpaulin to reduce the potential for sediment laden runoff entering the drainage system. • The wheels of all vehicles and plant should be cleaned before leaving the works areas to remove sediment, soil and debris from the tracks. The washwater should be treated to remove any suspended sediment. • Surface water from concrete batching areas and the rest of the site should be separated as far as possible. Wastewater from any concrete batching plant (if required) shall be treated to the required standards including pH adjustment and settlement of suspended sediments before discharging to stormwater drains • Manholes (including those constructed as part of the Project) should be adequately covered and temporarily sealed at all times to prevent silt, construction materials or debris from entering the drainage system, and to prevent 					<p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">*</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p>

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		<p>storm runoff from entering foul sewers. The discharge of surface runoff into foul sewers should be prevented so as not to overload the sewerage system.</p> <p>Discharges should be collected by the temporary drainage system installed by the Contractor and treated on-site to remove sediment prior to discharge to the off-site drainage areas. The Contractor is required to obtain a discharge licence from EPD under the WPCO for all discharges from site with all discharges meeting the water quality requirements of the Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (TM-DSS).</p>					^
5.6.1.3	4.2	<p>Accidental Spillage of Chemicals</p> <p>In accordance with the Waste Disposal (Chemical Waste) (General) Regulation (Cap 354C), the following measures should be implemented:</p> <ul style="list-style-type: none"> The labelling and storage of chemicals should be in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and maintained at all times by the Contractor. Oils and fuels should only be stored in designated areas which have appropriate pollution prevention control 	Prevent accidental discharge of chemicals into the surrounding environment	Contractor	Within the Project site / During construction phase	Construction phase	^ *

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		<p>facilities such as oil and grease traps.</p> <ul style="list-style-type: none"> The maintenance of vehicles should only be undertaken in areas of the site served by appropriate pollution prevention control facilities. To prevent the spillage of fuels and solvents to nearby stormwater drains, all fuel tanks and storage areas should be locked and sited on sealed areas of the site, within bunded areas with a capacity equal to 110% of the storage capacity of the largest container. The bund should be kept free of surface water at all times and after each rainfall event. 					<p>^</p> <p>^</p>
5.6.1.4	4.2	<p>Sewage from Construction Workforce</p> <p>Portable toilets should be available throughout the construction phase and regularly maintained, collected and disposed by a licensed waste collector to a public sewage treatment works for suitable treatment.</p>	Prevent discharge of sewage into the surrounding environment	Contractor	Within the Project site / During construction phase	construction phase	^
5.6.1.5	4.2	<p>Construction Works in Close Proximity to Inland Watercourses</p> <p>Mitigation measures such as such as temporary diversions of existing drainage culverts/ watercourses before construction commences and during construction should be implemented, in addition to those listed in ProPECC Note PN1/94 <i>Construction</i></p>	Minimise/ control construction site discharges to avoid pollution of nearby watercourses	Contractor	Within the Project site / During construction phase	construction phase	

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		<p><i>Site Drainage and ETWB TC (Works) No. 5/2005 Protection of Natural Streams/ivers from Adverse Impacts Arising from Construction Works.</i> Measures include the following:</p> <ul style="list-style-type: none"> • Stockpiling of construction materials and spoil, should be properly covered and located away from any natural stream/river. • Construction works close to the inland waters should be carried out in dry season as far as practicable where the flow in the surface channel or stream is low. • Removal of existing vegetation alongside the riverbanks should be avoided or minimised. When disturbance to vegetation is unavoidable, all disturbed areas should be hydroseeded or planted with suitable vegetation to blend in with the natural environment upon completion of works. 					<p>N/A</p> <p>N/A</p> <p>N/A</p>
Waste Management Implications – Construction Phase							
7.5.1.1	6.2	<p>Good Site Practice</p> <p>Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> • Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an 	Implement good site practices to minimize waste generation	Contractor	Project construction site / Throughout construction stage / Until completion of all construction	Construction phase	*

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		<p>appropriate facility, of all wastes generated at the site</p> <ul style="list-style-type: none"> • Training of site personnel in proper waste management and chemical handling procedures • Provision of sufficient waste disposal points and regular collection of waste • Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers • Stockpiles of C&D materials should be kept covered by impervious sheets to avoid windblown dust • All dusty materials including C&D materials should be sprayed with water immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling at the stockpile areas • Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads • Well planned delivery programme for off-site disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated 			activities		<p style="text-align: center;">^</p> <p style="text-align: center;">*</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">*</p> <p style="text-align: center;">^</p>
7.5.1.2	6.2	Waste Reduction Measures	Implement good	Contractor	Project	Construction phase	

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		<p>Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> • Sort non-inert C&D materials to recover any recyclable portions • Segregation and storage of different types of waste in different containers or skips or stockpiles to enhance reuse or recycling of materials and their proper disposal • Encourage collection of recyclable waste such as waste paper and aluminum cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force • Proper site practices to minimize the potential for damage or contamination of inert C&D materials • Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste 	management and control to minimize waste generation		construction site / Throughout construction stage / Until completion of all construction activities		^ ^ ^ ^ ^
7.5.1.3	6.2	<p>Inert and Non-inert C&D Materials</p> <p>In order to minimise impacts resulting from collection and transportation of inert C&D materials for off-site disposal, the</p>	Minimise impacts resulting from collection and transportation of inert C&D	Contractor	Project construction site / Throughout	Construction phase	^

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		<p>inert C&D materials should be reused on-site as fill material as far as practicable. In addition, inert C&D materials generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation.</p> <p>The surplus inert C&D materials will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong.</p> <p>The C&D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site.</p> <p>In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the DEVB Technical Circular (Works) No. 6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the ETWB Technical Circular (Works) No. 19/2005 Environmental</p>	<p>materials</p>		<p>construction stage / Until completion of all construction activities</p>		<p>^</p> <p>^</p> <p>^</p>

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		Management on Construction Site					
7.5.1.4	6.2	<p>Chemical Waste</p> <p>If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the “Code of Practice on the Packaging Labelling and Storage of Chemical Wastes”. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidising, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.</p> <p>Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended</p>	Implement good practices to avoid chemical waste impact.	Contractor	Project construction site / Throughout construction stage / Until completion of all construction activities	Construction phase	^

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7.5.1.5	6.2	<p>General Refuse</p> <p>General refuse should be stored in enclosed bins or compaction units separated from inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'windblown' light material.</p>	Implement good practices to avoid odour nuisance or pest/vermin problem and waste impact.	Contractor	Project construction site / Throughout construction stage / Until completion of all construction activities	Construction phase	^
Land Contamination – Construction Phase							
8.6.1	7.2	In any case where contaminated soil is identified after the commencement of works, a Contamination Assessment Plan (CAP) is required to be prepared for EPD's endorsement prior to the site investigation. The Contamination Assessment Report (CAR) and/ or Remediation Action Plan (RAP) should be prepared for EPD's approval after the site investigation. If land contamination is confirmed, remediation works should be carried out according to the approved RAP. A Remediation Report (RR) should also be prepared for EPD's endorsement to demonstrate that the clean-up of the contaminated land is completed. No construction work or development of the site should be carried out before the approval of the RR.	Assessment is required for EPD approval in any case where contaminated soil is identified	Contractor	Project construction site / Before construction stage	Design phase	N/A
8.6.1	7.2	The following mitigation measures are proposed for	Minimise impacts resulting	Contractor	Project	Construction phase	

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		<p>contaminated material excavation and transportation of contaminated materials (if any), in order to minimise the potentially adverse effects health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials:</p> <ul style="list-style-type: none"> • To minimise the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; • Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when working directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; • Stockpiling of contaminated excavated materials on site should be avoided as far as possible; • The use of any contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; • Vehicles containing any excavated materials should be suitably covered to reduce dust emissions and / or release of contaminated wastewater; • Truck bodies and tailgates should be sealed to stop any 	<p>from excavation and transportation in the of contaminated materials</p>		<p>construction site / Throughout construction stage / Until completion of all construction activities</p>		<p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>

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		<p>discharge;</p> <ul style="list-style-type: none"> Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; Speed control for trucks carrying contaminated materials should be exercised; Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354C) and obtain all necessary permits where required; and Maintain records of waste generation, disposal quantities and disposal arrangements. 					<p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>
Ecological Impact							
9.7.1	8.3	<p>Temporary Protective Fence for Flora Species of Conservation Interest</p> <p>During construction phase, erection and maintenance of a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey is recommended.</p> <p>Monthly monitoring of any other flora species of conservation</p>	<p>To avoid potential impact on flora species of conservation interest from construction activities such as materials storage;</p> <p>To make sure that the flora species of conservation</p>	Contractor	Project construction site / Throughout construction stage / Until completion of all construction activities	Construction phase	^

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		interest identified in the detailed vegetation survey should be conducted during the construction phase.	interest are not affected by the construction activities of the project.				
<i>Golden-headed Cisticola (Recommended Mitigation Measures from Baseline Survey Report of Golden-headed Cisticola)</i>							
-	-	<p>The following mitigation measures are proposed for minimizing noise impacts induced by construction works:</p> <ul style="list-style-type: none"> Silencers or mufflers on well-maintained construction equipment should be utilized and properly maintained during the construction program Noise enclosure or acoustic shed should be effectively utilized, where practicable Machines or equipment known to emit noise or light strongly in one direction should, wherever possible, be orientated the noise away from the adjacent habitat 	Construction noise	Contractor	Project area – areas adjacent to sensitive receivers / During construction phase	Construction phase	N/A ^ ^
-	-	<p>The following mitigation measures are proposed for minimizing light impacts:</p> <ul style="list-style-type: none"> Adjusting the outdoor lighting to lower intensity Use of directional lighting to avoid light spill into sensitive areas Control/timing of lighting periods of some facilities, particularly those close to the ecological sensitive receivers 	To minimize the light disturbance to avifauna	Contractor	Project area – areas adjacent to sensitive receivers / During construction phase	Construction phase	^ ^ ^

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-	-	<p>Drainage system</p> <ul style="list-style-type: none"> • Proper drainage system should be installed to collect and dispose rainwater • Installation of sediment/rubbish trapping facilities (e.g. catch pits or sand/silt traps to contain the increase in suspended solids and materials in the storm water drainage system so as to avoid pollutants being washed out during heavy rainstorms) 	Prevent discharge of pollutant into the surrounding environment	Contractor	Project area – areas adjacent to sensitive receivers / During construction phase	Construction phase	^ ^
-	-	<p>Good Site Practice Measures</p> <ul style="list-style-type: none"> • Placement of stockpiling into designated area should be selected at disturbed area in order to minimize the disturbance to wildlife • Open fire should be strictly prohibited • The boundary of project boundary should be clearly demarcated • General drainage system arrangement should include sediment and oil trapper to collect the site run-off • Waste bin should be provided to collect the general refuse and construction waste 	To avoid potential impact on Golden-headed Cisticola	Contractor	Project area – areas adjacent to sensitive receivers / During construction phase	Construction phase	^ ^ ^ ^

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
<i>Landscape and Visual Impacts – Construction Phase</i>							
Table 10.11	Table 9.1	CM01: Trees / woodland within the Project Site which are unaffected by the works shall be protected and preserved during the detailed design stage and construction phase. The tree preservation proposals shall be coordinated with the layout and design of the engineering and architectural works at detailed design stage for further retention of individual trees. The preservation of existing tree shall provide instant greening and screening effect for proposed works. Tree protection works will be undertaken in accordance with DEVB TC(W) 7/2015 on “Tree Preservation” and tree risk assessment in accordance with “Guidelines for Tree Risk Assessment and Management Arrangement” by DEVB.	Preserve and protect existing trees	Contractor	Project area / During design stage / construction phase / Establishment Period	Design and construction phase	^
Table 10.11	Table 9.1	CM02: If removal of trees unavoidable due to construction impacts, trees will be transplanted where technically feasible in accordance with “Guidelines on Tree Transplanting” by DEVB and HQ/GN/13 and HQ/GN/13 – Interim Guidelines for Tree Transplanting Works under Highways Department’s Vegetation Maintenance Ambit where applicable.	Preserve and protect existing trees	Contractor	Project area / During design stage / construction phase / Establishment Period	Design and construction phase	^
Table 10.11	Table	CM03: Construction area control, where possible, to ensure that	Minimise landscape and	Contractor	Project area /	Construction phase	^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
	9.1	the landscape and visual impacts arising from the construction activities are minimised. This includes the reduction of the extent and location of working areas to avoid sensitive LR, siting of offices or temporary structures so that they are not visually prominent, and consideration of detailed schedules to shorten the construction period. Temporary landscape treatments are considered to be adopted such as applying hydro-seeding on temporary stockpiles and areas of earthworks to alleviate the potential impacts and minimise soil erosion.	visual impacts.		During design stage / construction phase.		
Table 10.11	Table 9.1	CM04: Replanting of existing / disturbed vegetation shall be undertaken as soon as technically feasible during the construction phase. The priority shall be areas at the periphery of the site to ensure that proposed planting fulfils its role in mitigating the predicted impacts including screening views of the proposals as early as possible during the operation phase.	Maximise the mitigation effect of the planting to minimise landscape and visual impacts.	Contractor	Project area / During design stage / construction phase / Establishment Period	Construction phase	N/A
Table 10.11	Table 9.1	CM05: Decorative screen hoarding will be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs) to screen undesirable views of the works site. It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used.	Minimise landscape and visual impacts.	Contractor	Project area – areas adjacent to sensitive receivers / During construction phase.	Construction phase	^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
<i>Landscape and Visual Impacts (Recommended Mitigation Measures from Landscape and Visual Mitigation Plan)</i>							
-	-	<p>Tree protection and preservation</p> <p>a. The tree preservation proposals shall be coordinated with the layout and design of the engineering and architectural works at the detailed design stage for further retention of individual trees.</p> <p>b. During construction period, retained trees will be protected from impact from construction activity as per General Specification for Civil Engineering Works (2006 Edition), Section 26 – Preservation and Protection of Trees and Guidelines on Tree Preservation during Development.</p>	To avoid potential impact on retained tree from construction activities such as materials storage; To make sure that the retained tree are not affected by the construction activities of the Project	CEDD's and ArchSD's Contractors	CEDD: Along KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD: Within KNP Police Facilities Site	Design and construction phase of CEDD's and ArchSD's Contracts	*
-	-	<p>Tree transplantation</p> <p>a. If removal of trees unavoidable due to construction impacts, trees will be transplanted where technically feasible in accordance with "Guidelines on Tree Transplanting" by DEVB and HQ/GN/13 and HQ/GN/13 – Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit where applicable.</p>	To preserve the trees with conservation interest which are unavoidably affected by the construction activities.	CEDD's Contractors	The location of three <i>Aquilaria sinensis</i> at Site Portion B and D, and the receptor site for the transplanted trees opposite Portion B1 of the site.	Construction Stage of CEDD's contracts	^
-	-	Work area and temporary works area	To minimize the landscape	CEDD's and	CEDD: Along	Construction	^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<p>a. Reduction of the extent and location of working areas to avoid sensitive LR's</p> <p>b. Siting of offices or temporary structures so that they are not visually prominent</p> <p>c. Consideration of detailed schedules to shorten the construction period</p> <p>d. Temporary landscape treatments are considered to be adopted such as applying hydro-seeding on temporary stockpiles and areas of earthworks to alleviate the potential impacts and minimise soil erosion.</p>	and visual impacts by construction area control	ArchSD's Contractors	KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD: Within KNP Police Facilities Site	Stage of CEDD's and ArchSD's Contracts	^ ^ ^
-	-	<p>Advance implementation of mitigation planting</p> <p>a. Replanting of existing / disturbed vegetation shall be undertaken as soon as technically feasible during the construction phase.</p>	To mitigate the predicted impacts including screening views of the proposals as early as possible during the operation phase.	CEDD's and ArchSD's Contractors	Whole project site area, priority given to periphery of the site	Construction Stage of CEDD's and ArchSD's Contracts	N/A
-	-	<p>Decorative screen hoarding</p> <p>a. Decorative screen hoarding will be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs)</p> <p>b. It is proposed that the screening be compatible with the</p>	To screen undesirable views of the works site.	CEDD's and ArchSD's Contractors	Along areas of the construction works site boundary where the works site borders publically	Construction Phase CEDD's and ArchSD's Contracts	^ ^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		surrounding environment and where possible, non-reflective, recessive colours be used.			accessible routes and/or is close to visually sensitive receivers (VSRs)		
-	-	<p>Detail design considerations</p> <p>a. Detailed design of development components should reduce landscape footprint and visibility of structures.</p>	To reduce the area allowed for any development to a practical minimum	CEDD's Detailed Designers / Consultants ArchSD's Detailed Designers / Consultants	CEDD: Along KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD: Within KNP Police Facilities Site	Design Stage of CEDD's and ArchSD's Contracts	N/A
-	-	<p>Aesthetically pleasing design and responsive design of buildings and structures</p> <p>a. The form, textures, finishes and colours of the proposed development components should be compatible with the existing surroundings. Light earthy tone colours such as shades of green, grey, brown and off-white may be utilised where technically feasible to reduce the visibility of the development components, including all roadwork, buildings and noise barriers etc</p>	<p>a. To reduce the visibility of the development components</p> <p>b. To further improve visual amenity</p> <p>c. To reduce the mass of development</p> <p>d. To minimise the 'wall</p>	ArchSD's Detailed Designers / Consultants	Within KNP Police Facilities Site	Design Stage ArchSD's Contract	N/A

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<p>b. Adopting natural building materials such as stone and timber should be for architectural features, where technically feasible.</p> <p>c. Using responsive design for the disposition of the main elements of the proposed scheme including the locations of buildings and utility structures.</p> <p>d. Grouping of utilities and infrastructure components into proposed buildings as far as technically feasible to reduce the mass of development</p> <p>e. The disposition and height profile of the developments and above ground utilities structures to respond to the existing context particularly the existing landform and preserved trees,</p> <p>f. Creation of setbacks, articulating the development frontage and maintenance of view corridors when technically feasible</p>	<p>effects' and create a subtle transition at the edges of the site</p> <p>e. To enhance the sense of visual integration with the existing context, avoid abrupt transitions between the existing and proposed built environment and reduce the apparent visual mass of the proposed developments.</p>				
-	-	<p>Design of engineering structure</p> <p>a. The design of the proposed Engineering Structures such as the proposed road layout and any ancillary structures including the sewage pumping station and the Ma Tso Lung Firing Range should pay particular attention to the appearance and construction methods.</p> <p>b. The detailed design landscape consultants shall work in unison with the engineers on the aesthetic aspects of the structures and</p>	<p>To give the engineering structures a more natural appearance that allows them to blend into the local rural landscape.</p>	<p>CEDD's Detailed Designers / Consultants</p>	<p>Whole project site area</p>	<p>Design Stage of CEDD's Contracts</p>	<p>^</p>

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<p>their relationship with the landscape.</p> <p>c. The design of engineering structures shall avoid any unnecessary visual clutter achieved through the co-ordination of the various engineering disciplines involved to arrive at integrated design solutions.</p>					
-	-	<p>Design of retaining walls and slopes</p> <p>a. The proposed treatment of Retaining Wall and Slopes will be undertaken in accordance with GEO Publication No. 1/2011 "Technical Guidelines on Landscape Treatment and Bioengineering for Man-made Slopes and Retaining Walls".</p> <p>b. These engineering structures will be aesthetically enhanced through the use of soft landscape works including tree and shrub planting.</p>	<p>To give man-made slopes a more natural appearance blending into the local rural landscape.</p>	<p>CEDD's Detailed Designers / Consultants</p>	<p>Retaining walls and slopes within the whole site area</p>	<p>Design Stage of CEDD's Contracts</p>	^
-	-	<p>Compensatory planting proposal</p> <p>a. All compensatory planting of trees is to be carried out in accordance with DEVB TCW No. 7/2015. A total woodland compensation area of 5.54 ha is proposed.</p> <p>b. The planting proposals will utilise largely native species in accordance with GLTM/DEVB's - Guiding Principles on Use of Native Plant Species in Public Works Projects,</p> <p>c. Some compensatory shrub and ground cover planting will also</p>	<p>To compensate for the existing dead trees to be removed and create a more structurally diverse woodland.</p>	<p>CEDD's and ArchSD's Contractors</p>	<p>CEDD: Along KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD: Within KNP Police</p>	<p>Construction Stage of CEDD's and ArchSD's Contract</p>	N/A

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<p>be provided within the woodland area to create a more structurally diverse woodland.</p> <p>d. Woodland areas will utilise a combination of large sized tree stock (including heavy standard sized trees) and whip sized trees to create a more naturalistic</p> <p>e. The smaller, younger plant stock will adapt to their new growing conditions more quickly than larger sized stock and establish a naturalistic effect more rapidly.</p> <p>f. Roadside and amenity planting will utilise largely heavy standard sized trees.</p>			Facilities Site		
-	-	<p>Landscape buffer tree planting</p> <p>a. Tree planting using larger sized tree stock shall be provided to screen the proposed structures and associated facilities.</p> <p>b. The planting will utilise native species wherever possible.</p>	To improve compatibility with the surrounding environment and create a pleasant pedestrian environment.	CEDD's and ArchSD's Contractors	CEDD: along KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD : within KNP Police Facilities Site	Construction Stage of CEDD's and ArchSD's Contract	N/A
-	-	Roadside and amenity planting (within KNP Police Facilitate Site)	To enhance the landscape and visual quality of the existing and proposed	ArchSD's Contractor	KNP Police Facilities Site	Construction Stage of ArchSD's	N/A

Appendix K – Implementation Schedule and Recommended Mitigation Measures



EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		a. Roadside and amenity planting using predominantly native species	transport routes and car parks.			Contract	
-	-	Grassland (ecological mitigation) a. Creation of new grassland areas approximately 1.02 ha in size. Inclusion of common grass species <i>Ischaemum barbatum</i> and <i>Tetradium glabrifolium</i> (the larval food plants for butterfly species).	To provide larval food plants for the butterfly species.	ArchSD's Contractor	ArchSD : within KNP Police Facilities Site	Construction Stage of ArchSD's Contract	N/A
-	-	Green roof (within KNP Police Facilitate Site) a. Green roofs predominantly using native species shall be introduced where technically feasible on proposed buildings to reduce exposure of untreated concrete surfaces b. Location and extent of green roof subject to detailed design.	To enhance the sustainability of the design and mitigate visual impact to VSRs at high levels	ArchSD's Contractor	Within KNP Police Facilitate Site	Construction stage of ArchSD's Contract	N/A
-	-	Vertical greening a. Vertical planting shall be introduced using predominantly native species. b. Planting to utilise climbing and trailing plants. Location and extent of vertical greening subject to detailed design.	To soften the hard, vertical surfaces of the proposed development components including the walls of the proposed buildings and retaining walls.	CEDD's and ArchSD's Contractors	CEDD: along KNP Road where applicable and slopes within KNP Police Facilitate Site ArchSD : within KNP Police Facilitate Site	Construction Stage of CEDD's and ArchSD's Contracts	N/A
-	-	Green paving (within KNP Police Facilitate Site)	To reduce the area of	ArchSD's Contractor	Within KNP	Construction stage	N/A


Appendix K – Implementation Schedule and Recommended Mitigation Measures



EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<p>a. Green paving approach such as grass-crete or grass-grid to maximise the area of planting and reduce the area of hard paving</p> <p>b. Location and extent of green paving subject to detailed design of the ArchSD's contract. This includes the use of permeable paving where grass-crete / grass grid is not practicable.</p>	hard paving		Police Facilitate Site	of ArchSD's Contracts	
-	-	<p>Light control (operation)</p> <p>a. Street and night time lighting glare will be controlled</p>	To minimize glare impact to adjacent VSRs during the operation stage.	HKPF and HyD	<p>HKPF: Within KNP Police Facilitate Site</p> <p>HyD: Along Kong Nga Po Road</p>	Operation Stage	N/A



- Implementation status:**
- ^ Mitigation measure was fully implemented
 - * Observation/reminder was made during site audit but improved/rectified by the contractor
 - # Observation/reminder was made during site audit but not yet improved/rectified by the contractor
 - X Non-compliance of mitigation measure
 - Non-compliance but rectified by the contractor
 - N/A Not Applicable at this stage as no such site activities were conducted in the reporting period



**Contract No. ND/2018/01 –
Site Formation and Infrastructure Works
for Police Facilities in Kong Nga Po**



Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA 3.91; EM&A Log 2.2	Reinforced Concrete Structure Construction Including Bridge Deck	Kong Nga Po Main Site Kong Nga Po Road	Air	<ul style="list-style-type: none"> Dusty materials that exceeded 20 bags will be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting. 	 <p>03.02.2023</p> <p>By sub-contractor at KNP road</p>
EIA 5.6.1.2; EM&A Log 4.2			Waste water pollution control	<ul style="list-style-type: none"> Soil berm and retention pit will be provided for the control of water outflow Desilting/sedimentation devices will be provided for wastewater treatment prior to discharge Designated location for residual concrete washout 	 <p>28.02.2023</p> <p>By main contractor at KNP road</p>



Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA 4.4.6; EM&A Log 3.2	(Cont') Reinforced Concrete Structure Construction	(Cont') Kong Nga Po Main Site Kong Nga Po Road	Noise	<ul style="list-style-type: none"> Well-planning of concreting works to prevent working in restricted hours 	
EIA 4.4.6; EM&A Log 3.2	Including Bridge Deck		Working in Restricted Hours	<ul style="list-style-type: none"> Valid construction noise permit should be obtained and displayed on site In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out 	 <p>By main contractor at KNP road</p>



Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA 7.5.1.4; EM&A Log 6.2	(Cont') Reinforced Concrete Structure Construction Including Bridge Deck	(Cont') Kong Nga Po Main Site Kong Nga Po Road	Chemicals for concreting works	<ul style="list-style-type: none"> Chemical for concreting works should be stored in designated area with proper labelling and packing Designated location for residual concrete washout 	 <p>By sub-contractor at KNP Road</p>
EIA 3.91; EM&A Log 2.2	Slope Upgrading Works	Kong Nga Po Main Site Kong Nga Po Road	Dust impact from soil nail works	<ul style="list-style-type: none"> Three side enclosure with top shelter for cement mixing works Water spraying on soil nailing works Dusty materials exceeding 20 bags shall be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting 	 <p>By sub-contractor at KNP Road</p>

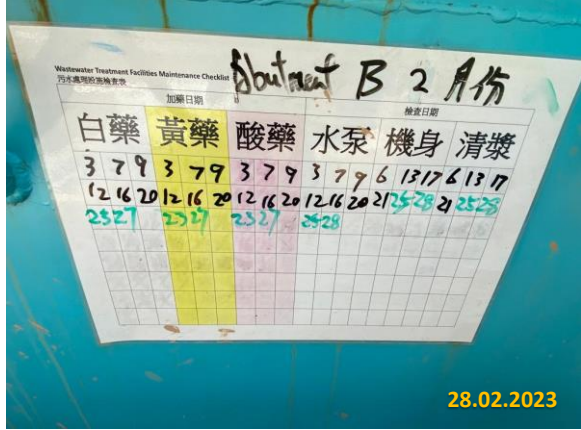

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA 5.6.1.2; EM&A Log 4.2	(Cont') Slope Upgrading Works	(Cont') Kong Nga Po Main Site Kong Nga Po Road	Water	<ul style="list-style-type: none"> • Deploy desilting/sedimentation devices for wastewater treatment prior to discharge • Establish soil berm with retention pit to control water outflow 	 <p>By sub-contractor at KNP Main Site</p>
EIA 4.4.6; EM&A Log 3.2			Noise	<ul style="list-style-type: none"> • Regular inspection and maintenance of plant and equipment in good condition • Provide noise barriers for soil nailing works where near the sensitive receiver 	 <p>By sub-contractor at KNP Road</p>



Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA 10.11, EM&A Log 9.4	(Cont') Slope Upgrading Works	(Cont') Kong Nga Po Main Site Kong Nga Po Road	Ecology Concern	<ul style="list-style-type: none"> • Provide training to frontline workers for the conservative species • Provision of protective fence for the conservative species • Regular inspection for concerned vegetation 	 <p data-bbox="1451 869 1892 901">By main contractor at KNP Main Site</p>
EIA Table 10.11 EM&A Table 9.1			Landscape and visual impact	<ul style="list-style-type: none"> • Properly fenced off the conservative species • Preservation of existing trees will be undertaken in accordance with DEVB TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management Arrangement 	 <p data-bbox="1451 1353 1848 1385">By main contractor at KNP Road</p>

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA 3.91; EM&A Log 2.2	Trenchless Works	Kong Nga Po Road Man Kam To Road	Air	<ul style="list-style-type: none"> Regular inspection and maintenance of plant and equipment in good condition Regularly clean up stockpiles and debris to avoid accumulation of materials Dusty materials exceeding 20 bags shall be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting. 	 <p>By sub-contractor at KNP Main Site</p>
EIA 5.6.1.2; EM&A Log 4.2			Water	<ul style="list-style-type: none"> Provide desilting/sedimentation devices for wastewater treatment before discharge 	 <p>By main contractor at KNP Road</p>

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA 4.4.6; EM&A Log 3.2	(Cont') Trenchless Works	(Cont') Kong Nga Po Road Man Kam To Road	Noise from roadworks	<ul style="list-style-type: none"> Enclose the noisy part of machineries with noise isolating mats during hard surface breaking 	 <p>By main contractor at KNP Road</p>
EIA 7.5.1.4; EM&A Log 6.2			Chemical Waste	<ul style="list-style-type: none"> Drip tray and chemical spillage kit shall be provided on site 	 <p>By sub-contractor at KNP Road</p>

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA Table 10.11 EM&A Table 9.1	(Cont') Trenchless Works	(Cont') Kong Nga Po Road Man Kam To Road	Landscape and visual impact	<ul style="list-style-type: none"> • Properly fenced off the conservative species • Properly implement temporary traffic arrangement which control construction area to minimize landscape and visual impacts 	 <p>By sub-contractor at KNP Road</p>
EIA 3.91; EM&A Log 2.2	Road and Associated Works	Kong Nga Po Main Site Kong Nga Po Road	Air Dust impact from excavation activities and earth moving	<ul style="list-style-type: none"> • Use of regular water spraying (once every 1.25 hours or 8 times per day) at all active works area exposed site surfaces and unpaved roads, particularly during dry weather • Regular inspection and maintenance of plant and equipment in good condition • Regularly clean up stockpiles and debris to avoid accumulation of materials 	 <p>By sub-contractor at KNP Road</p>


Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA 5.6.1.2; EM&A Log 4.2	(Con't) Road and Associated Works	(Con't) Kong Nga Po Main Site Kong Nga Po Road	Water	<ul style="list-style-type: none"> Provide desilting/sedimentation devices for wastewater treatment before discharge 	 <p>28.02.2023</p> <p>By main contractor at KNP Road</p>
EIA 4.4.6; EM&A Log 3.2			Noise from roadworks	<ul style="list-style-type: none"> Enclose the noisy part of machineries with noise isolating mats during hard surface breaking 	 <p>02.02.2023</p> <p>By sub-contractor at KNP Road</p>


Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA 7.5.1.4; EM&A Log 6.2	(Con't) Road and Associated Works	(Con't) Kong Nga Po Main Site Kong Nga Po Road	Chemical Waste	<ul style="list-style-type: none"> Drip tray and chemical spillage kit shall be provided on site 	 <p>By main contractor at KNP Road</p>
EIA Table 10.11 EM&A Table 9.1			Landscape and visual impact	<ul style="list-style-type: none"> Properly fenced off the conservative species Properly implement temporary traffic arrangement which control construction area to minimize landscape and visual impacts 	 <p>By main contractor at KNP Road</p>


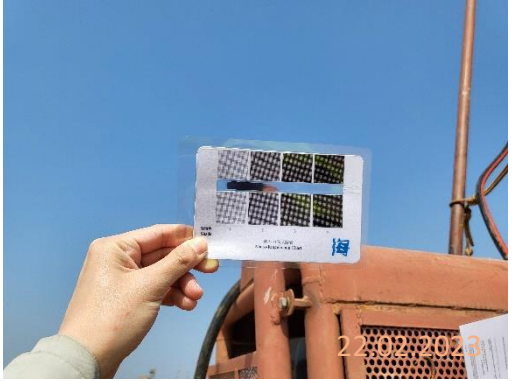
**Contract No. SSK509 –
Design and Construction of Kong Nga Po
Police Training Facilities**



Design and Construction of Kong Nga Po Police Training Facilities
Proactive Environmental Protection Proforma



Working Period: February 2023


Ref*	Proposed Construction Method	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA 3.9.1; EM&A Log 2.2	Setting up of temporary site office and site entrance	Kong Nga Po Site	Dust impact	<ul style="list-style-type: none"> • Deploy water bowser for regular water spraying to enhance dust suppression • Manual water spraying for dust suppression 	 <p data-bbox="1632 930 2029 959">By main contractor at KNP site</p>

<p>EIA 4.4.6; EM&A Log 3.2</p>			<p>Noise</p>	<ul style="list-style-type: none"> Regular inspection and maintenance of plant & equipment in good condition Deploy Quality Powered Mechanical Equipment (QPME) if possible 	 <p>01.02.2023</p> <p>01.02.2023</p> <p>By main contractor at KNP site</p>
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<p>EIA 3.9.1; EM&A Log 2.2</p>	<p>Ground Investigation</p>	<p>Kong Nga Po Site</p>	<p>Dust impact</p>	<ul style="list-style-type: none"> • Deploy water bowser for regular water spraying to enhance dust suppression • Manual water spraying for dust suppression • Regular inspection and maintenance of plant and equipment in good condition • Cover dusty materials with impervious sheets 	 <p>22.02.2023</p> <p>By main contractor at KNP site</p>  <p>By main contractor at KNP site</p>
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					 <p>By subcontractor at KNP site</p>
<p>EIA 4.4.6; EM&A Log 3.2</p>			<p>Noise</p>	<ul style="list-style-type: none"> • Regular inspection and maintenance of plant & equipment in good condition • Deploy Quality Powered Mechanical Equipment (QPME) if possible • Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor or generator. 	 <p>By main contractor at KNP site</p>

					 <p data-bbox="1630 639 2029 671">By main contractor at KNP site</p>
<p data-bbox="203 691 403 767">EIA 9.7.1 and EM&A Log 8.3</p>			<p data-bbox="916 691 1133 722">Ecology Concern</p>	<ul data-bbox="1184 691 1610 1102" style="list-style-type: none"> <li data-bbox="1184 691 1610 815">• Provide training to workers about the conservative species <li data-bbox="1184 834 1610 959">• Provision of protective fence for the conservative species <li data-bbox="1184 978 1610 1102">• Regular inspection for concerned vegetation and conservative species 	 <p data-bbox="1630 1075 2029 1107">By main contractor at KNP site</p>

					 <p>13.02.2023</p> <p>By main contractor at KNP site</p>
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**APPENDIX L
WASTE GENERATION IN THE
REPORTING MONTH**

**Contract No. ND/2018/01 –
Site Formation and Infrastructure Works
for Police Facilities in Kong Nga Po**

Environmental Permit No.: EP-510/2016**Monthly Summary Waste Flow Table for 2020**

Month	Total Quantity Generated	Actual Quantities of Inert C&D Waste Generated Monthly					Actual Quantities of C&D Waste Generated Monthly				
		Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metal	Paper/Cardboard Packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. General Refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0.00304	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00304
Feb	0.00699	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00699
Mar	0.01294	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01294
Apr	0.02173	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02173
May	0.02534	0.00000	0.00000	0.00000	0.01329	0.00000	0.00000	0.00000	0.00000	0.00000	0.01205
Jun	0.10368	0.00000	0.00000	0.00000	0.00687	0.00000	0.00000	0.00000	0.00000	0.00000	0.09681
Sub-Total	0.17372	0.00000	0.00000	0.00000	0.02016	0.00000	0.00000	0.00000	0.00000	0.00000	0.15355
Jul	33.65416	0.00000	0.00000	33.07233	0.07872	0.00000	0.00000	0.00000	0.00000	0.00000	0.50311
Aug	26.60619	0.00000	0.00000	25.47880	0.48478	0.00000	0.00000	0.00000	0.00000	0.00000	0.64260
Sep	50.56237	0.00000	0.00000	48.88600	0.45676	0.00000	0.00000	0.00000	0.00000	0.00000	1.21961
Oct	41.97128	0.00000	0.00000	41.63335	0.02784	0.00000	0.00000	0.00000	0.00000	0.00000	0.31009
Nov	62.67238	0.00000	0.00000	61.98935	0.09226	0.00000	0.00000	0.00000	0.00000	0.00000	0.59077
Dec	61.43492	0.00000	0.00000	52.40582	8.76826	0.00000	0.00000	0.00000	0.00000	0.00000	0.26083
Total	277.07501	0.00000	0.00000	263.46567	9.92879	0.00000	0.00000	0.00000	0.00000	0.00000	3.68056

Environmental Permit No.: EP-510/2016**Monthly Summary Waste Flow Table for 2021**

Month	Total Quantity Generated	Actual Quantities of Inert C&D Waste Generated Monthly					Actual Quantities of C&D Waste Generated Monthly				
		Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metal	Paper/Cardboard Packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. General Refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Cumulative in 2020	277.07501	0.00000	0.00000	263.46567	9.92879	0.00000	0.00000	0.00000	0.00000	0.00000	3.68056
Jan	44.91877	0.00000	0.00000	20.33601	24.31886	0.00000	0.00000	0.00000	0.00000	0.00000	0.26389
Feb	13.08831	N/A	N/A	9.64034	3.40955	N/A	N/A	N/A	N/A	N/A	0.03841
Mar	35.52359	N/A	N/A	19.92956	15.50902	N/A	N/A	N/A	N/A	N/A	0.08501
Apr	42.22569	N/A	11.95500	7.21197	22.96688	N/A	N/A	N/A	N/A	N/A	0.09183
May	9.09491	N/A	4.13844	4.47821	0.43554	N/A	N/A	N/A	N/A	N/A	0.04272
Jun	40.50170	N/A	22.95720	16.78316	0.68899	N/A	N/A	N/A	N/A	N/A	0.07235
Sub-Total	462.42797	0.00000	39.05064	341.84492	77.25764	0.00000	0.00000	0.00000	0.00000	0.00000	4.27477
Jul	38.56656	N/A	2.04766	34.19166	2.26520	N/A	N/A	N/A	N/A	N/A	0.06204
Aug	32.57509	N/A	3.80440	23.63834	4.94379	N/A	N/A	N/A	N/A	N/A	0.18856
Sep	14.56695	N/A	13.46440	0.00000	0.99677	N/A	N/A	N/A	N/A	N/A	0.10578
Oct	6.10194	N/A	5.02740	0.00000	0.96228	N/A	N/A	N/A	N/A	N/A	0.11225
Nov	15.41373	N/A	14.04710	0.00000	1.25681	N/A	N/A	N/A	N/A	N/A	0.10982
Dec	16.44356	N/A	15.59920	0.00000	0.73992	N/A	N/A	N/A	N/A	N/A	0.10444
Total	586.09580	0.00000	93.04080	399.67493	88.42240	0.00000	0.00000	0.00000	0.00000	0.00000	4.95767

Environmental Permit No.: EP-510/2016**Monthly Summary Waste Flow Table for 2022**

Month	Total Quantity Generated	Actual Quantities of Inert C&D Waste Generated Monthly					Actual Quantities of C&D Waste Generated Monthly				
		Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metal	Paper/Cardboard Packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. General Refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Cumulative up to 2021	586.09580	0.00000	93.04080	399.67493	88.42240	0.00000	0.00000	0.00000	0.00000	0.00000	4.95767
Jan	15.52131	N/A	14.62310	0.00000	0.75883	0.00000	0.00000	0.00000	0.00000	0.00000	0.13939
Feb	0.75965	N/A	0.00000#	0.00000	0.68681	0.00000	0.00000	0.00000	0.00000	0.00000	0.07283
Mar	11.42694	N/A	11.19380	0.00000	0.13435	0.00000	0.00000	0.00000	0.00000	0.00000	0.09879
Apr	21.11792	N/A	20.93220	0.00000	0.03174	0.00000	0.00000	0.00000	0.00000	0.00000	0.15399
May	23.62989	N/A	22.75850	0.00000	0.78923	0.00000	0.00000	0.00000	0.00000	0.00000	0.08216
Jun	50.32256	N/A	49.84710	0.00000	0.38282	0.00000	0.00000	0.00000	0.00000	0.00000	0.09264
Sub-Total	708.87407	0.00000	212.39550	399.67493	91.20618	0.00000	0.00000	0.00000	0.00000	0.00000	5.59747
Jul	55.65088	N/A	54.26760	0.00000	0.37304	0.91776	0.00000	0.00000	0.00000	0.00000	0.09247
Aug	43.19611	N/A	29.70000	0.00000	8.72599	4.69637	0.00000	0.00000	0.00000	0.00000	0.07375
Sep	36.80396	N/A	33.21960	0.00000	3.50538	0.00000	0.00000	0.00000	0.00000	0.00000	0.07898
Oct	5.67507	N/A	5.40497	0.00000	0.19936	0.00000	0.00000	0.00000	0.00000	0.00000	0.07074
Nov	0.21425	N/A	0.00000	0.00000	0.10276	0.00000	0.00000	0.00000	0.00000	0.00000	0.11149
Dec	1.48147	N/A	0.00000	0.00000	1.26914	0.00000	0.00000	0.00000	0.00000	0.00000	0.21233
Total	851.89581	0.00000	334.98767	399.67493	105.38185	5.61413	0.00000	0.00000	0.00000	0.00000	6.23723

Environmental Permit No.: EP-510/2016

Monthly Summary Waste Flow Table for 2023

Month	Total Quantity Generated	Actual Quantities of Inert C&D Waste Generated Monthly					Actual Quantities of C&D Waste Generated Monthly				
		Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metal	Paper/Cardboard Packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. General Refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Cumulative up to 2022	851.89581	0.00000	334.98767	399.67493	105.38185	5.61413	0.00000	0.00000	0.00000	0.00000	6.23723
Jan	1.74468	N/A	0.00000	0.00000	1.66413	0.00000	0.00000	0.00000	0.00000	0.00000	0.08055
Feb	3.52773	N/A	0.00000	0.37018	3.09596	0.00000	0.00000	0.00000	0.00000	0.00000	0.06159
Mar	0.00000	N/A									
Apr	0.00000	N/A									
May	0.00000	N/A									
Jun	0.00000	N/A									
Sub-Total	857.16822	0.00000	334.98767	400.04510	110.14195	5.61413	0.00000	0.00000	0.00000	0.00000	6.37937
Jul	0.00000	N/A									
Aug	0.00000	N/A									
Sep	0.00000	N/A									
Oct	0.00000	N/A									
Nov	0.00000	N/A									
Dec	0.00000	N/A									
Total	857.16822	0.00000	334.98767	400.04510	110.14195	5.61413	0.00000	0.00000	0.00000	0.00000	6.37937

Environmental Permit No.: EP-510/2016

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metal	Paper/Cardboard Packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. General Refuse
(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
630.500	0.000	190.000	358.000	78.000	0.000	0.000	0.000	0.000	0.000	4.500

Notes:

- (1) Not Used.
 - (2) The waste flow table shall also include C&D materials that are specified in this contract to be imported for use at the Site
 - (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
 - (4) The summary table shall be submitted to the *Supervisor* monthly together with the Waste Flow Table for review and monitoring in accordance with the PS Clause 25.20A(4)
 - (5) The density of inert C&D is assumed 2.2 tonnes per cubic meter
 - (6) The density of non-inert C&D is assumed 1.5 tonnes per cubic meter
 - (7) The C&D materials generated before Jul 2020 are from domestic activities, site investigation, clearance, and preparation for surveying works
- #Quantity to be included in Mar-2022 since lack of manpower of Survey Team for data logging in Feb-2022 due to Covid-19
- *The quantity of Inert Materials reused in the contract to be updated upon surveying record

**Contract No. SSK509 –
Design and Construction of Kong Nga Po
Police Training Facilities**

Name of Department: ArchSD

Monthly Summary Waste Flow Table for 2023 (year)

Project : Design and Construction of Kong Nga Po Police Training Facilities

Contract No.: SS K509

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Bituminous Material	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 m ³)
Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar												
Apr												
May												
Jun												
Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jul												
Aug												
Sep												
Oct												
Nov												
Dec												
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

- Notes:
- (1) The performance targets are given in the Particular Specification on Environmental Management Plan.
 - (2) The waste flow table shall also include construction waste that are specified in the Contract to be imported for use at the site.
 - (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
 - (4) Broken concrete for recycling into aggregates.
 - (5) If necessary, use the conversion factor: 1 full load of dumping truck being equivalent to 6.5 m³ by volume.

**APPENDIX M
COMPLAINT LOG**

Appendix M - Complaint Log**Reporting month: February 2023**

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
C-001	EP3/N07/RN/18746-20	Kong Nga Po Road	19 th August 2020	The complainant complained about the construction noise nuisance of the Kong Nga Po Road and requested noise monitoring and mitigation measures to lower the noise level.	<p>According to the results from regular noise monitoring, no Limit Level Exceedance was recorded at sensitive receivers since the commencement of the construction of the Project. In addition, there was no environmental deficiency regarding construction noise impact recorded during site inspection. It is considered that no adverse construction noise impact was brought to the nearby sensitive receivers due to the site works in July and August 2020.</p> <p>Upon receipt of the complaint, the Contractor had undertaken the follow up action as follow:</p> <ul style="list-style-type: none"> Erect noise isolating mat at Portion B1 to reduce noise nuisance arising from the site <p>Nevertheless, the Contractor was reminded to fully implement the relevant noise mitigation measures according to the EM&A Manual on site, such as:</p> <ul style="list-style-type: none"> Selection of quieter plant; Provision of sufficient noise mitigation measures (e.g. movable noise barrier, noise enclosure, acoustic shed, noise insulating fabric etc.) for the site activities on nearby NSRs where appropriate. To strengthen site supervision and provide regular training to the workers to increase awareness of their environmental responsibilities and minimize the noise impact 	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					to the nearby residents during working hours as well as restricted hours.	
C-002	EP3/N07/RN/21538-20	Kong Nga Po Road	22 nd September 2020	The complainant complained about the polluting effluent discharged from construction site, leading to flooding and pollution problem.	<p>According to EM&A Manual of the Project, the complaint was referred to the ET for investigation. Ad-hoc site inspections were conducted by ET and IEC to identify the source of the complaint, review the effectiveness of the Contractor’s remedial measures and the updated situation once received the complaint.</p> <p>According to the site inspection finding, no muddy effluent discharged from Portion D entrance was observed at Kong Nga Po Road. Wastewater generated from wheel washing, construction works or surface runoff was collected and treated in wastewater treatment facilities. Wastewater treatment facilities were functioning properly. No Limit Level exceedance for pH, suspended solid and chemical oxygen demand was recorded in effluent discharge monitoring.</p> <p>In order to avoid any circumstances that may lead to the complaint, ET and IEC have recommended enhancement on water quality mitigation measures. The Contractor had undertaken the follow up actions and additional mitigation measures on drainage system to minimize the water quality impact arising from the construction works as follow:</p> <ul style="list-style-type: none"> • Provision of soil berm at edge near retaining wall DAM Bay 43-46 • Setting up of wastewater treatment facilities near wheel washing bay 	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					<ul style="list-style-type: none"> • Re-formation of haul road in Portion D • Provision of soil berm near Platform B • Increase in capacity of retention pit near Platform B • Reinforcement of soil berm near excavation area and near retaining wall at Portion D to minimize water leakage • Regular maintenance of clear U-channel which was blocked by natural debris at Kong Nga Po Road <p>Nevertheless, the Contractor was reminded to ensure the wastewater generated from construction works must comply with the condition stated in the Effluent Discharge license and enhance sediment control measure regarding storm water management to assure no muddy water is being discharged from the construction site. The environmental conditions of the site and the control of works will be continuously reviewed and monitored by the Supervisor, ET and IEC.</p>	
C-003	N/A	Kong Nga Po Road	8 th October 2020	The complainant complained about the muddy water discharged from construction site into Kong Nga Po Road during heavy rainfall. Also, he concerned if there is illegal discharge	According to the finding of <i>ad-hoc</i> site inspection, no muddy effluent discharge was observed on road surface and road drainage along the Kong Nga Po road section from construction site to the location of complaint during rainfall. Also, no direct slope surface and pathway for muddy water outflow from the site to the location of complaint was observed. Potential source of muddy water to the location of complaint is likely from	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				and if the design of drainage system is sufficient to handle the discharge.	natural surface runoff from shrubland and grassland along the Kong Nga Po Road during heavy rainfall.	
C-004	N/A	Kong Nga Po Road	28 th October 2020	The complainant complained about the polluting effluent discharged from construction site, leading to flooding and water pollution problem.	<p>Continuous improvement works on the temporary drainage system at Project site have been conducted for water pollution control since September 2020. Regular checking were carried out by the Contractor to ensure the system is working properly. All wastewater were collected and treated to ensure discharge comply with condition stated in the Effluent Discharge Licence.</p> <p>In addition, the Contractor has taken the following mitigation measures to minimize the water quality impact arising from the construction works:</p> <ul style="list-style-type: none"> ● Regular inspection and maintenance on sediment control measure at Project site; ● <i>Ad-hoc</i> inspection on the water pollution control measures at Project site before onset of the typhoon; ● Regular maintenance record on wastewater treatment facilities; and ● Provision of vegetated filter strips at outer side of existing soil berms and slope surface to act as natural filtration for water pollution control. <p>The environmental condition of the site and the control of work will be continuously reviewed and monitored by the Supervisor, ET and IEC.</p>	

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
C-005	N/A	Slope Feature A at Kong Nga Po Road	28 th October 2020	The complainant complained about the noise generated from the construction activities at Slope Feature A that caused annoyance to his family.	<p>According to the results from regular noise monitoring, no Limit Level exceedance was recorded at sensitive receivers during the time of complaint. In addition, there was no environmental deficiency regarding construction noise impact was recorded during site inspection. In view of the above, it is considered that no adverse construction noise impact was brought to the nearby sensitive receivers due to the site works.</p> <p>Upon receipt of the complaint, the Contractor had undertaken the follow up action as follow:</p> <ul style="list-style-type: none"> ● Setting up of double layers of noise barrier to block the transmission of noise from breaking point to Noise Sensitive Receivers; ● Conducting internal noise monitoring to ensure the noise mitigation measures are properly implemented; and ● To check and maintain the noise insulating fabric enclosed the noisy part of the breaker. <p>Nevertheless, the Contractor was reminded to fully implement the relevant noise mitigation measures according to the EM&A Manual on site , such as</p> <ul style="list-style-type: none"> ● To frequently check and maintain the acoustic materials wrapped on noisy part of PME and ensure no gaps between noise barriers; ● To proactively identify any potential construction noise impact to NSRs and provide sufficient mitigation measures if necessary; ● To provide regular training to the workers to 	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					<p>increase awareness of their environmental responsibilities and minimize the noise impact to the nearby residents during working hours as well as restricted hours;</p> <ul style="list-style-type: none"> To provide notification to nearby villagers in Kong Nga Po for potential noisy works at works area 	
C-006	N/A	Portion C at Kong Nga Po Road	30 th November 2020	The complainant complained about the noise nuisance from the construction activities at Portion C on Kong Nga Po Road.	No complaint investigation is required as this complaint has been withdrawn by the complainant.	Closed
C-007	N/A	Portion C at Kong Nga Po Road	30 th November 2020	The complainant complained about the muddy water discharged from construction site into nearby drainage system and some oil slicks observed at the downstream of the drainage.	No complaint investigation is required as this complaint has been withdrawn by the complainant.	Closed
C-008	EP3/N07/RN/8845-21	Near Lamp Post BD2370 at Kong Nga Po Road	19 th April 2021	The complainant complained about suspected dumping soil at nullah, causing blockage and flooding near lamp post BD2370.	<p>According to the finding of <i>ad-hoc</i> site inspection conducted by the Contractor, no excavation nor construction works were carried out by ND/2018/01 near Lamp Post BD2370. Slope excavation was carrying out at Slope Feature 3NW-C/C38, the disposal was recorded and controlled by trip ticket system.</p> <p>Existing U-channel near slope toe had been covered</p>	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					<p>and surface runoff was guided to sedimentation tank by submersible pump. No discharge was taken place due to dry season and excavation was not a wastewater-generated activity.</p> <p>Upon receipt of the complaint, the Contractor had undertaken the follow up action as follow:</p> <ul style="list-style-type: none"> Excavated slop had been covered by erosion mat Strictly implemented trip ticket system to monitor the C&D waste disposal Deployed sufficient submersible pump and wastewater treatment facilities for the surface runoff treatment 	
C-009	N/A	Kong Nga Po Road (Feature A)	22 nd October 2021	The complainant complained about noise generated from rock breaking activities at Construction Site caused nuisance to his family and the village.	<p>According to the results from regular noise monitoring, no Limit Level exceedance was recorded at the noise sensitive receivers during the construction works. In addition, there was no environmental deficiency regarding construction noise impact was recorded during site inspection.</p> <p>In addition, Contractor has also undertaken the follow up action as follow:</p> <ul style="list-style-type: none"> The hammer of excavator had been wrapped with sound proof canvas; Silent-up retractable noise barriers were deployed for noise mitigation measure during the rock breaking works. <p>Nevertheless, the Contractor was reminded to fully implement the relevant noise mitigation measures according to the EM&A Manual on site , such as:</p>	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					<ul style="list-style-type: none"> To frequently check and maintain the acoustic materials wrapped on noisy part of PME and ensure no gaps between noise barriers; To proactively identify any potential construction noise impact to NSRs and provide sufficient mitigation measures if necessary; To provide regular training to the workers to increase awareness of their environmental responsibilities and minimize the noise impact to the nearby residents during working hours as well as restricted hours; and To provide notification to nearby villagers in Kong Nga Po for potential noisy works at works area. 	
C-010	N/A	Kong Nga Po Road	18 th November 2021	The complainant complained about noise and vibration generated from sheet-piling works and rock breaking works for pipe laying works at Kong Nga Po Road	<p>Noise mitigation measures have been implemented for sheet-piling works as below:</p> <ul style="list-style-type: none"> noisy part of sheet-piling plant has been enclosed by sound insulation materials; proactive environmental protection proforma has been prepared to identify the potential noise impact to NSRs and corresponding mitigation measures has been implemented; toolbox talk training for site engineers and frontline workers on construction noise suppression has been conducted. <p>In addition, noise mitigation measures have been implemented for rock breaking activities as below:</p> <ul style="list-style-type: none"> hammer of the excavator has been wrapped by 	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					<p>soundproofing material;</p> <ul style="list-style-type: none"> ● checking and maintenance of the soundproofing material wrapped on the hammer has been implemented before operation; ● SilentUP Retractable Noise Barriers have been installed to block the noise transmission to the village of complainant; ● proactive environmental protection proforma has been prepared to identify the potential noise impact to NSRs and corresponding mitigation measures has been implemented; ● toolbox talk training for site engineers and frontline workers on construction noise suppression has been conducted; ● nearby villagers close to the rock breaking works have been informed before the commencement of the works <p>Moreover, no Limit Level exceedance was recorded at the noise sensitive receivers during the construction works. There was also no environmental deficiency regarding construction noise impact at Kong Nga Po Road was recorded during site inspection.</p> <p>However, in order to avoid the recurrence of the complaint due to the rock breaking works at Feature A works area, alternative working methods such as the use of hydraulic splitters, hydraulic jaw crushers and rock sawing will be considered for the upcoming rock breaking works.</p>	

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					Enhancement on the noise mitigation measures such as strengthening the use of noise barriers to enclose the noise source from rock breaking works and controlling the working period to avoid continuous noisy works will also be implemented for upcoming rock breaking works.	
C-011	N/A	Kong Nga Po Road near 警察訓練學校	22 nd December 2021	The complainant complained about soil / muddy water discharging out from construction site near 警察訓練學校 at Kong Nga Po Road	<p>Internal movement of excavated materials by dump truck were carried out by ND/2018/01 at 3NW-C/C37 near Lamp Post BD2369 and RD-A near Lamp Post BD2356, and both near the Police Dog Unit and Force Search Unit Training School as mentioned in the complaint.</p> <p>The following was observed during the investigation:</p> <ul style="list-style-type: none"> • wheel washing facilities have been provided for vehicles and plants leaving the works areas; • the section before the site exits have been paved with backfall to prevent the wheel washing water from entering the public road; • frontline worker was carrying out public road washing for public cleanliness in the perspective of the general public; • no earth, mud or muddy water were deposited on roads. <p>Enhancement measures have been carried out RD-A to restore the pavement quality and further prevent the wheel washing water from entering the public road.</p>	Closed
C-012	N/A	Works Area Near Lamp Post	3 rd May 2022	The complainant complained about the following issues:	The main construction works near the complaint location as stated by the complainant was the pre-boring works at works area "S0131" from 21 April	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
		GD0460 at Kong Nga Po Road		<ul style="list-style-type: none"> - Noise from construction activities that caused nuisance to public - Vibration may cause damage to nearby structure - Suspected muddy water discharged into private drainage 	<p>2022 to 30 April 2022. Observations have been spotted during the investigation as below:</p> <p><u>Noise & Vibration</u></p> <ul style="list-style-type: none"> - Additional noise barrier has been erected for the pre-boring works to minimize the noise transmitted to the noise sensitive receiver (NSR) even the line of sight between the noise source point and the NSR was blocked by the natural barrier. <p><u>Muddy Water Discharge</u></p> <ul style="list-style-type: none"> - Wastewater Treatment Facilities has been in place and functioning to treat the wastewater generated from the pre-boring works. - discharged effluent from the wastewater treatment system for the works area “S0131” has been sampled on 25 April 2022 and the test report showed a result of Total Suspended Solid of < 1mg/L which complied with the requirement of < 30mg/L as stipulated in Discharge Licence. - no muddy water along the drainage near the complaint location was observed, the water flowing in the drainage was clean even after the heavy rainstorm on 12 May 2022. - no chemical along the drainage near the complaint location was observed. <p>The following additional measures were implemented by the Contractor:</p> <p><u>Noise & Vibration (26/4/2022)</u></p> <ul style="list-style-type: none"> - self-monitoring on noise at the NSR has been conducted and the result showed a noise level of 	

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					<p>Leq,T = 58.7dB(A) that no exceedance of noise level from the pre-boring works.</p> <ul style="list-style-type: none"> - self-monitoring on vibration at the NSR has been conducted and the result showed a vibration level of 2.977mm/s that was far lower than the Peak Particle Velocity Limits of 15mm/s. <p><u>Muddy Water Discharge</u></p> <ul style="list-style-type: none"> - additional clearance works for the existing drainage to help to clear the soil accumulated in the drainage brought from nearby existing earth and to ensure no blockage of the drainage. 	
C-013	N/A	Works Area Near Lamp Post BD2355 at Kong Nga Po Road	23 rd June 2022	The complainant complained about vibration from construction activities that caused nuisance to a nearby Sensitive Receiver of the Police Dog Unit and Force Search Unit Training School (HKPDU)	<p>The main construction works near the HKPDU mentioned by the complainant was the pre-boring works at Works Area “RD-A”. The works were commenced on 11 June 2022 and completed on 21 June 2022. The following observations were made during the investigation:</p> <ul style="list-style-type: none"> - no vibration was noticed during the site inspection at Works Area “RD-A” for the pre-boring works on 15 June 2022 - a difference in elevation (at least 3m) between the Works Area “RD-A” and the nearby Sensitive Receiver was formed after the completion of backfilling for the retaining wall system and might have already reduced the vibration transmission to the Sensitive Receiver <p>The following additional measures were implemented by the Contractor:</p>	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					<ul style="list-style-type: none"> - self-monitoring on vibration at the nearby Sensitive Receiver was conducted on 21 June 2022 and the result showed a vibration level of 0.348 mm/s that was far lower than the Peak Particle Velocity Limits of 15mm/s - feasibility of alternative working methods to further minimize the vibration to nearby Sensitive Receivers for upcoming pre-boring works at other works area will be considered by the Contractor 	
C-014	N/A	Works Area Near Lamp Post GD0460 at Kong Nga Po Road	17 th Aug 2022	The complainant complained about the muddy surface runoff flowing from the construction site into the private lots during rainy days	<p>According to the finding of ad-hoc site inspection conducted during raining on 13 August 2022, the surface runoff was flowing from the carriageway surface and passing through Kong Nga Po Bridge works area, where had been hard paved, to the lower drainage. No muddy water generated from the construction works area was observed.</p> <p>The discharged effluent from the wastewater treatment system has been sampled on 24 July 2022 and the test report showed a result of Total Suspended Solid of < 1mg/L which complied with the requirement of < 30mg/L as stipulated in Discharge Licence.</p> <p>In addition, the suspected complaint location is an existing low-lying area even before the commencement of the construction. The water accumulation at the suspected location of complaint is considered due to the existing terrain according to the initial topographic survey records.</p>	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					However, additional clearance works for the existing drainage would be conducted to clear the soil accumulated in the drainage brought from nearby existing earth and to ensure no blockage of the drainage.	
C-015	EP3/N07/RN/03386-23	Construction sites along the Kong Nga Po Road	7 th Feb 23	The complainant complained about the sand and mud brought onto the traffic road by the dump trucks due to improper wheel washing before leaving the construction sites along the Kong Nga Po Road.	According to the investigation, Kong Nga Po Road involves different road users besides the construction site under Contract No. ND/2018/01 including some workshops and container yards while they also have interfaces with the public traffic road and vehicle in-and-out activities. Referring to the site inspection, no sand and mud at the site exit points were observed. Wheel washing measure was provided and wheel washing has been implementing at site exit points. As a preventive measures, workers performed road washing regularly to maintain cleanliness at interfaces. Based on the site condition and observations abovementioned, the complaint is considered non-project-related.	Closed

Cumulative Complaint Log

Reporting Period	Total no. of Complaint Received
This reporting month	1
From 3 rd July 2020 to end of the reporting month	15

**APPENDIX N
SUMMARY OF SUCCESSFUL
PROSECUTION**

Appendix N - Summary of Successful Prosecution

Date of Successful Prosecution	Details of the Successful Prosecution	Status	Follow Up	Total no. Received in this Reporting Month	Total no. Received since Project Commencement
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