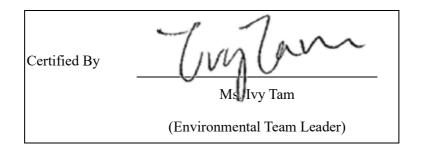
Civil Engineering and Development Department

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 July 2023

(Version 1.0)



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.

WELLAB LIMITED

Room 1714, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong Tel: (852) 2898 7388 Fax: (852) 2898 7076 Website: www.wellab.com.hk





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

11 August 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 July 2023

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

Yours faithfully,

Kull 4

Tandy Tse Independent Environmental Checker

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

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EXECUTIVE SUMMARY

Introduction

- This is the 37th monthly Environmental Monitoring and Audit (EM&A) Report under the Work Contract (Environmental Permit No. EP-510/2016: Contract No. ND/2018/01 – Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po) (the Project). 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 31st July 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.

Summary of Construction Works undertaken during the Reporting Month

3. The major site activities undertaken in the reporting month include:

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

- Slope Upgrading Works
- Road & Associated Works
- Bridge & Associated Works

Environmental Monitoring and Audit Progress

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

Table 1 Summary Table for EM&A Activities in the Reporting Month			
EM&A Activities	Date		
Air Quality Monitoring	3, 6, 7, 12, 13, 18, 19, 24, 25, 28 and 31 July 2023		
Noise Monitoring	3, 6, 12, 13, 18, 19, 24, 25 and 31 July 2023		
Ecological Monitoring	28 July 2023		
Environmental Site Inspection	7, 14, 21 and 25 July 2023		

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

Breaches of Action and Limit Levels

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

Air Quality

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

Construction Noise

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

Environmental Monitoring	Parameter		n-Project ceedances Limit Level	No. of Exc related t <u>Constructio</u> Action Level	to the	Action Taken
Air Quality	1-hr TSP	0	0	0	0	N/A
Noise	L _{eq(30min)}	0	0	0	0	N/A

 Table II
 Summary Table for Events Recorded in the Reporting Month

Ecological Monitoring

8. 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

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

Environmental Complaint

10. No environmental complaint was received in the reporting month.

Notification of Summons and Successful Prosecutions

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

Reporting Changes

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

Future Key Issues

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

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

- Slope Upgrading Works
- Road & Associated Works
- Bridge & Associated Works
- 14. 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 Work Contract (Environmental Permit No. EP-510/2016: Contract No. ND/2018/01 Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po) 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 37th EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 1st to 31st July 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&TFF, 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 The Works Contract (Contract No. ND/2018/01 Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po) generally consists of site formation & infrastructure works for the co-location of various police facilities at Kong Nga Po as well as upgrading works to a section of the existing Kong Nga Po Road between the police facilities and Man Kam To Road (hereinafter called "the Project").
- 2.6 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.
- 2.7 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.

2.8 The site layout plan for the Project is shown in **Figure 1**.

Project Organization

- 2.9 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
- 2.10 The key personnel contact names and numbers are summarised in Table 2.1.

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
Supervisor / Supervisor's Representative (AECOM)	Senior Resident Engineer	Mr. Steven Leung	5287 4331	3922 9797
	Environmental Team Leader	Ms. Ivy Tam	2151 2090	2898 7076
Environmental Team (Wellab Limited)	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	Site Agent	Mr. Book Kin Man	2272 3128	
Construction Limited)	Environmental Officer	Mr. Alex Liu	9754 3432	2528 1751

Table 2.1Key Contacts of the Project

Summary of Construction Works Undertaken During Reporting Month

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

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

- Slope Upgrading Works
- Road & Associated Works
- Bridge & Associated Works

Construction Programme

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

Status of Environmental Licences, Notifications and Permits

2.13 A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in **Table 2.2**.

Permit / Licence No.	Valid F	Status	
Permit / Licence No.	From	То	Status
Environmental Permit (El	?)	•	
EP-510/2016	N/A	N/A	Valid
Construction Noise Permi	t (CNP)		
GW-RN0081-23	28-01-2023	27-07-2023	Expired in the reporting month
GW-RN0792-23	28-07-2023	27-01-2024	Valid
Notification pursuant to A	ir Pollution Control (C	Construction Dust) Re	gulation
EPD Ref no.: 451555	N/A	N/A	N/A
Billing Account for Const	ruction 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 2.2
 Status of Environmental Licences, Notifications and Permits

Summary of EM&A Requirement

- 2.14 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

2.15 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 2.3Summary Table for Status of Compliance / Required Submission under EPNo. 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	*
	Detailed Vegetation Survey Report (Version 1.0)	2 nd April 2020	
2.13 & 2.14	Detailed Vegetation Survey Report (Version 2.0)	8 th May 2020	Approved
	Detailed Vegetation Survey Report (Version 3.0)	9 th July 2020	
	Transplantation Proposal (Version 1.0)	2 nd April 2020	
2.4 & 2.14	Transplantation Proposal (Version 2.0)	8 th May 2020	Approved
	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
	Landscape and Visual Mitigation Plan	7 th April 2020	
2.18 & 2.19	Landscape and Visual Mitigation Plan (Revised Final Rev. 4)	28 th September 2020	Approved
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.

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	7

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**.

NION	.n			
Monitoring	Concentration (µg/m³)		Action Level,	Limit Level, µg/m ³
Station	Average	Range	μg/m ³	
AM1	40.0	23.4 - 63.8	308	500
AM2	47.0	29.6 - 65.6	311	500

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

- 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**:

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

Table 3.5Observation at Dust Monitoring Stations

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.

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	

Table 4.1Location of Noise Monitoring Stations

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**.

Equipment	Model	Quantity
Integrating Sound Level Meter	BSWA 308	5
Acoustical Calibrator	B&K 4231 / SVANTEK SV30A	4

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 Frequer

Monitoring Stations	Parameter	Duration	Frequency	Measurement
NM1				Free field ^[1]
NM2			Once per week	Free field ^[1]
NM3				Facade
NM4		0700-1900 hrs on normal weekdays		Facade
NM5	$\begin{array}{c} L_{10(30 \text{ min.})} dB(A)^{[2]} \\ L_{90(30 \text{ min.})} dB(A)^{[2]} \\ L_{eq(30 \text{ min.})} dB(A)^{[2]} \\ (as six consecutive L_{eq,} \\ & 5 \text{min readings}) \end{array}$			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 time weighting time measurement	: A : Fast : L _{eq(30 min.)} dB(A) (as six consecutive L _{eq, 5min} readings) during non- restricted hours (i.e. 0700-1900 hrs on normal weekdays)
	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 4.4Summary Table of Noise Monitoring Results during the Reporting Month

Monitoring	Average	Range	Baseline Level	Limit Level
Station	$L_{eq(30 min)} dB(A)$	Leq (30 min) dB(A)	dB(A)	dB(A)
NM1 ^[1]	59.0	56.8-60.3	54.9	
NM2 ^[1]	61.0	55.2-66.2	56.7	75.0
NM3	55.5	53.8 - 56.8	54.5	

Monitoring	Average	Range	Baseline Level	Limit Level
Station	$L_{eq(30 min)} dB(A)$	Leq (30 min) dB(A)	dB(A)	dB(A)
NM4	60.5	57.5 - 64.4	58.7	
NM5	62.1	59.7 - 63.9	57.0	
NM6 ^[1]	63.2	56.5 - 66.0	56.0	
NM7	55.1	52.1 - 57.2	49.8	
NM8 ^[1]	61.7	53.7 - 66.3	57.6	
NM9 ^[1]	62.6	58.3 - 66.9	55.9	
NM10 ^[1]	55.3	51.5 - 57.4	52.8	
NM11	54.0	50.1 - 55.8	46.4	
NM12	54.6	51.4 - 56.3	54.7	
NM13 ^[1]	55.2	48.9 - 57.9	61.3	
NM14 ^[1]	55.1	49.2 - 58.3	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 Womtoring Stations		
Monitoring Station	onitoring Station Major Noise Source	
NM1	Road traffic, excavation works, loading & unloading, concrete works	
NM2	Road traffic, excavation works, loading & unloading, concrete works	
NM3	Road traffic, excavation works, loading & unloading	
NM4	Road traffic, excavation works, loading & unloading, concrete works, breaking works	
NM5	Road traffic, excavation works, loading & unloading, concrete works, breaking works	
NM6	Road traffic, excavation works, loading & unloading, concrete works	
NM7	Road traffic, excavation works, loading & unloading, concrete works	
NM8	Road traffic, excavation works, loading & unloading	
NM9	Road traffic, excavation works, loading & unloading, concrete works	
NM10	Road traffic, excavation works, loading & unloading, concrete works, breaking works	
NM11	Road traffic, excavation works, loading & unloading at another project nearby	
NM12	Road traffic, excavation works, loading & unloading at another project nearby	
NM13	Road traffic	
NM14	Road traffic	

Table 4.5Observation at Noise Monitoring Stations

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 202. The post-transplantation maintenance and monitoring works for *Brainea insignis* and *Spiranthes sinensis* have been conducted by the Contractor under Contract No. SSK509 since February 2023. In addition, monthly monitoring of for *Brainea insignis* and

Spiranthes has also been handed over to the ET under Contract No. SSK509 (FEP no.: FEP-01/510/2016) starting from April 2023.

Results and Observations

5.7 Monthly monitoring of flora species of conservation interest (*Keteleeria fortunei* and Undersized seedling of *Aquilaria sinensis* only) was conducted by ET on 28th July 2023 during the reporting month. The implementation status of protection measures 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 H1**. The health conditions of the retained species are generally in fair condition. The Contractor was reminded to closely monitored the 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 works on transplanted *Brainea insignis* and *Spiranthes sinensis* has been handed over to the Contractor under Contract No. SSK509 since February 2023.

Transplanted Aquilaria sinensis

- 5.9 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.
- 5.10 All recommended measures as set out in the deposited Detailed Vegetation Survey Report and the Transplantation Proposal have been fully and properly implemented in accordance with EP-510/2016 Condition 2.14 and presented in **Appendix H2**.
- 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 H1**.

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

Recommended Mitigation Measures	Implementation Status
Keteleeria fortunei	
Identification of Plant Species of Conservation Importance to be Retained /	
Transplanted	۸
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.	N/A
 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
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. 	٨
Post-transplantation Monitoring	
a) Weekly post-transplantation monitoring of transplanted species in the first three months and monthly afterwards.	N/A
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

Recommended Mitigation Measures	Implementation Status
Other Protection Measures for Flora Species of Conservation Interest / Retained	
Tree / Vegetated Areas	
a) All works should be confined within the site boundary.	Λ
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.	^
Aquilaria sinensis (Undersized Seedling)	-
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.	N/A
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
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
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.	N/A N/A

	Recommended Mitigation Measures	Implementation Status		
c)	c) To remove unwanted weeds found in receptor sites.			
Ot	her Protection Measures for Flora Species of Conservation Interest / Retained			
Tr	ee / 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.	۸		
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.	۸		
h)	No fire should be lit below the branches and no petrol, oil or caustic substances stored near the trees/plants.	۸		
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:	*	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 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

<u>Light</u>

- 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 7th, 14th, 21st and 25th July 2023 in the reporting month. Joint site audits with the representative of the *Supervisor*'s Representative, the Contractor and IEC were carried out on 25th July 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.

Parameters	Date	Observations	Follow Up Action
	07/07/2023	NRMM label should be provided for the excavator at Portion B1.	NRMM label has been provided for the excavator by the Contractor as observed during follow-up audit session on 14/07/2023.
Air Quality	25/07/2023	Mud trail was observed at the site exit of RD-D. The Contractor was reminded to provide mitigation measures to ensure the vehicle's wheel are free from clogged mud before leaving the site.	No further mud trail was observed during follow-up audit session on 04/08/2023.
	25/07/2023	The water barriers should be deployed around the works completely (between Portion B1 & dog unit).	The water barriers have been deployed around the works completely by the Contractor as observed during follow-up audit session on 04/08/2023.
Construction Noise Impact		No environmental deficiency was identified during the reporting month.	
	07/07/2023	The water-filled barriers should be deployed along the works area at Feature A completely to avoid the leakage of soil / debris outside the site boundary.	The water-filled barriers have been deployed along the works area completely by the Contractor as observed during follow-up audit session on 14/07/2023.
Water Quality	07/07/2023	The exposed slopes at Feature A should be covered with tarpaulin sheet.	Exposed slopes have been covered by the Contractor as observed during follow-up audit session on 14/07/2023.
	25/07/2023	Mud trail was observed at the site exit of RD-D. The Contractor was reminded to provide mitigation measures to ensure the vehicle's wheel are free from clogged mud before leaving the site.	No further mud trail was observed during follow-up audit session on 04/08/2023.

 Table 7.1
 Observations and Recommendations of Site Audit

Parameters	Date	Observations	Follow Up Action
	25/07/2023	The accumulated mud at the sump pit at Abutment B should be cleared regularly.	The accumulated mud has been cleared by the Contractor as observed during follow-up audit session on 04/08/2023.
	25/07/2023	Sand bag bund should be provided at the drainage channel at F16.	Sand bag bund has been provided at the drainage channel by the Contractor as observed during follow-up audit session on 04/08/2023.
Waste/ Chemical Management	21/07/2023	The chemical should be stored in a proper container with drip tray (F16 & Feature A).	The chemical containers have been removed off site by the Contractor as observed during follow-up audit session on 25/07/2023.
Landscape and	07/07/2023	The construction materials / wastes at near the trees should be removed (Feature A).	The construction materials / wastes at near the trees have been cleared by the Contractor as observed during follow-up audit session on 14/07/2023.
Visual	21/07/2023	The retained trees at Feature A should be properly protected.	The protective fences have been properly erected for retained trees by the Contractor as observed during follow-up audit session on 25/07/2023.
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 wet season against muddy surface runoff was found generally satisfactory despite some observations/recommendations as detailed above were raised. The mitigation measures implemented in April 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 and construction noise was recorded
- 8.2 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

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

Summary of Environmental Complaint

- 8.4 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.
- 8.5 There was no environmental complaint 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

8.6 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:

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

- Slope Upgrading Works
- Road & Associated Works
- Bridge & Associated Works
- 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 and maintain the water quality mitigation measures according to the construction site drainage plan during 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. 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 July 2023 in accordance with EM&A Manual.
- 10.2 No Action/Limit Level exceedance was recorded for air quality and construction noise in the reporting month.
- 10.3 Environmental site inspections were conducted on 7th, 14th, 21st and 25th July 2023 by ET in the reporting month. No environmental non-compliance was recorded in the reporting month.
- 10.4 No environmental complaint, notification of summons or successful prosecutions was received in the reporting month.
- 10.5 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

10.6 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;
- To maintain the wheel washing facilities provided at every construction site exit where practicable are functioning properly;
- To cover / clear the used cement bags on site;
- To maintain the plant equipment to avoid heavy smoke emission; and
- To ensure the hoarding / water barriers erected around the perimeter of construction sites completely.

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 keep the door of air compressors close.

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.

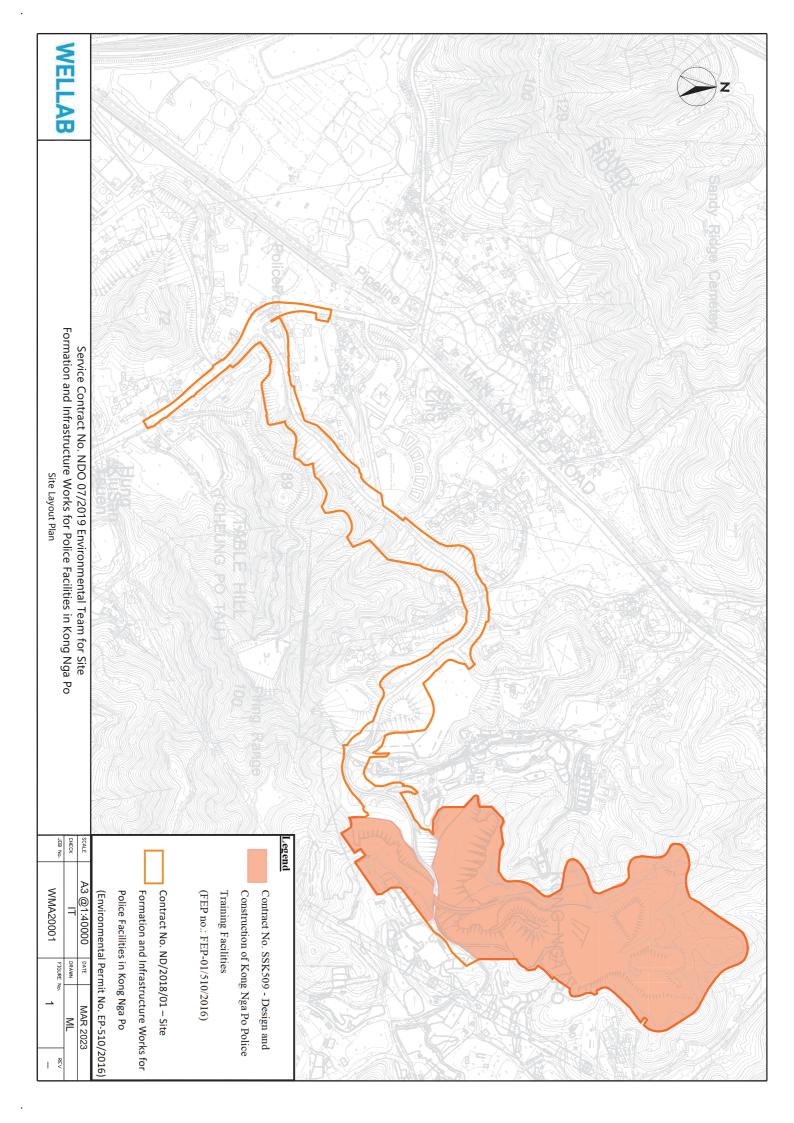
Ecology

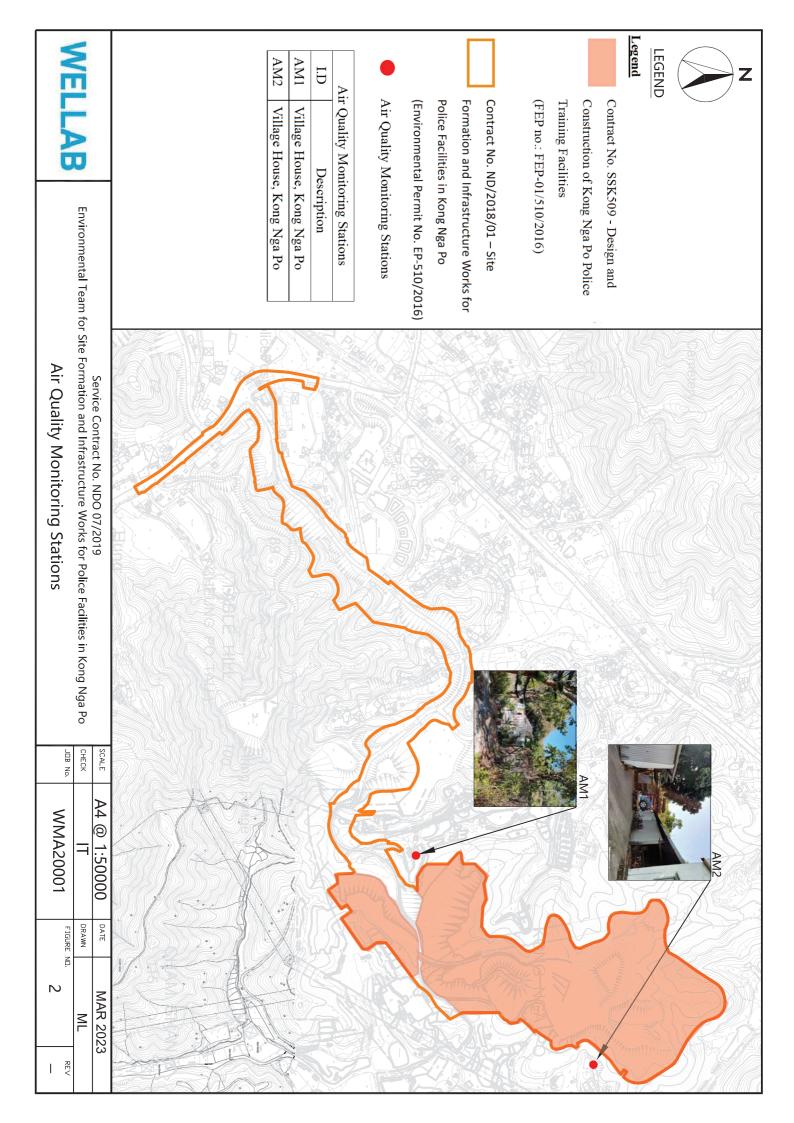
- To erect and maintain the protection fence around the retained trees / conservation species;
- To keep the tree protection zone large enough to protect the tress; and
- To remove the soil, debris and construction materials / wastes inside the protective fence and or deposited around the trunk of retained trees / conservation species.

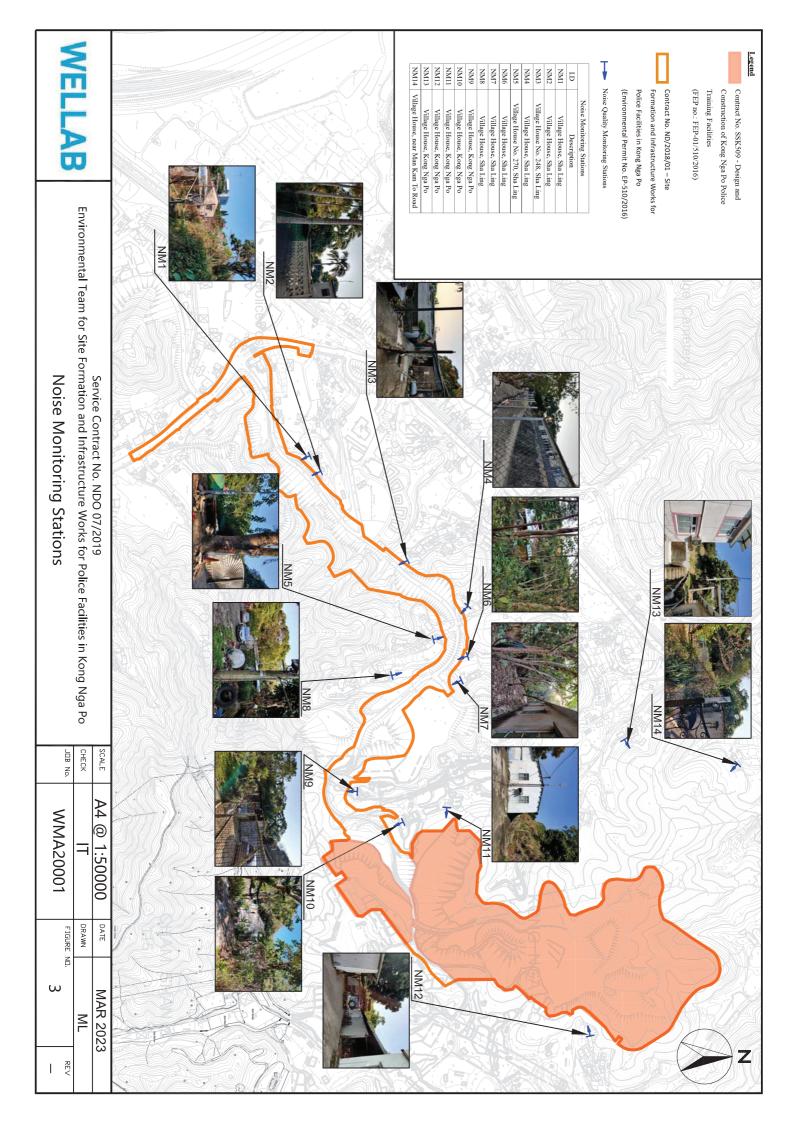
Landscape and Visual

- To erect and maintain the protection fencing and tree protection zone around the preserved trees;
- To remove the soil, debris and construction materials / wastes inside the protective fence and or deposited around the trunk of retained trees;
- To keep the tree protection zone large enough to protect the tress.

FIGURE(S)







APPENDIX A CONSTRUCTION PROGRAMME AND PROACTIVE ENVIRONMENTAL PROTECTION PROFORMA

D/2018/01											s for Police Fac		C	
)	AdivityName	OriginalDuration	Actual Duration	n Total Float	TRA	Start	Finish	LateStart	LateFinish	Activity% Complete	Predecessors	Successors	July 2023	August2023
Aonthly Update (31 Ju	uly 2023)	1113	1136	304	95	27-Nov-19A	05-Apr-24	30-Sep-21	05-Apr-25				02 09 16 23	30 06 13 20
Dates	ny 2023)	82	0	-201	0	31-Jul-23	06-Nov-23	26-Nov-21	03-Mar-23					0
Key Dates (CD1-3)		0	0	-426	0	31-Jul-23	31-Jul-23	30-May-22	30-May-22					31-Jul-23, Key Dates (CD 1-3)
KD1	KD1 (915days after Starting Date), Portion B, B1 and B2	0	0	-426	0		31-Jul-23*		30-May-22	0%				KD1 (915days after Starting Date)
KD2	KD2 (915 days after Starting Date), Portion AA1, B, B1 and B2	0	0	-426	0		31-Jul-23*		30-May-22	0%				KD2 (915 days after Starting Date)
Section Completion (WI	-10.1 & CD1-X5)	0	0	-185	0	31-Jul-23	31-Jul-23	26-Nov-21	26Jan-23					31-Jul-23, Section Completion (WI
S1	Completion of Section 1 (1156 days after Starting D ate), Works in Portion AA1, B, B1, B2	0	0	-185	0		31-Jul-23*		26-Jan-23	0%				Completion of Section 1 (1156 days
S2	Completion of Section 2(1156 days after Starting D ate), Works in Portion C and C1	0	0	-185	0		31-Jul-23*		26-Jan-23	0%				Completion of Section 2 (1156 days
S3	Completion of Section 3 (730 days after Starting Date), Works in Portion D and D1 (26 Nov 2021)	0	0	-611	0		31-Jul-23*		26-Nov-21	0%				Completion of Section 3 (730 days
S4	Completion of Section 4 (1155 days after Starting D ate), Remaining Works	0	0	-185	0		31-Jul-23*		26-Jan-23	0%		S5		Completion of Section 4 (1156 days
Revised Completion Da	ate	0	0	-149	0	31-Jul-23	31-Jul-23	22-Dec-21	03-Mar-23					31-Jul-23, Revised Completion Da
RCKD1	RevisedCompletion of Key Date KD1	0	0	-389	0		31-Jul-23*		06-Jul-22	0%	PC.KD1		- I	Revised Completion of Key Date
RCKD2	RevisedCompletion of Key Date KD2	0	0	-389	0		31-Jul-23*		06-Jul-22	0%	PC.KD2		-	Revised Completion of Key Date H
RCS1	RevisedCompletion of Section 1	0	0	-149	0		31-Jul-23*		03-Mar-23	0%	PC.S1			Revised Completion of Section 1
RC.S2	RevisedCompletion of Section 2	0	0	-158	0		31-Jul-23*		22-Feb-23	0%				Revised Completion of Section 2
RC.S3	Revised Completion of Section 3 (22 Dec 2021)	0	0	-585	0		31-Jul-23*		22-Dec-21	0%	PC.\$3, PW.C-1050			Revised Completion of Section 3 (
RC.54	RevisedCompletionof Section4	0	0	-149	0		31-Jul-23*		03-Mar-23	0%	PC.S2,PC.S4	RC.85		Revised Completion of Section 4
		52	0	-488	0	15-Sep-23	06-Nov-23	22-Dec-21	06-Jul-22					
Planned Completion	Planned Completion of KD1	0	0	-488	0	10-5q-20	06-Nov-23	22-08-21	06-Jul-22	0%	KD KE-1200	RCKD1		
PC KD2	PlannedCompletion of KD2	0	0	-488	0		06-Nov-23		06-Jul-22	0%	KD KE-1200	RCKD2		
	· · ·	0			0		45 Can 22				S3KE-1500	RC.S3,S4-1000		
PC.S3	PlannedCompletion of Section 3	0	0	-632	0		15-Sep-23		22-Dec-21	0%	53KE-1500	RC.53,54100		
Contract Submission		90	912	606	0	30-Jan-21A	08-Aug-23	28-Mar-25	05-Apr-25				8 4 8	08-Aug-23, ContractS
General Submission GS-1750	Design of Road Lighting System [PS-31.1]	90	912 912	606	0	30-Jan-21 A 30-Jan-21 A	08-Aug-23 08-Aug-23	28-Mar-25 28-Mar-25	05-Apr-25 05-Apr-25	90%	S3.GS-1700			08-Aug-23, General S Design of RoadLight
Works in KD1 and KD2	? (Portion A, A1, B, B1, & B2)	1058	1015	-260	11	25-Feb-20A	17-Jan-24	24-Mar-22	03-Mar-23				1 1 1	
Key Event	. (FOILIOITA, AI, D, DI, & D2)	99	0	-488	0	31-Jui-23	06-Nov-23	06-Jul-22	06-Jul-22					
KD KE-1060	Completion of Relaining Walls	0	0	-382	0		02-Aug-23		06-Jul-22	0%	KDBRD-0000, KDDS-1150, KDMS-1150, KDPW-1860, KDSDRFD-1050, KDSDRFD-1050, KDSDRFD-1000, KDBRDR-1350, KDCM-1200, KDBRDR-1350, KDCM-1200, KDBRDR-1050105, KDBRDR-1050420	KD KE-1200		Completion of Retaining Wat
KD KE-1100	Campleland Severage Trenchless Warks	0	0	-392	0		02-Aug-23		06-Jul-22	0%	KD.B.TR-1200,KD.B.TR-1100, KD.B.RD.R-160025,KD.B.TR-1300	KD.KE-1200		Completion of Sewerage Tie

 Remaining Level of Effort
 Remaining Work
 Milestone

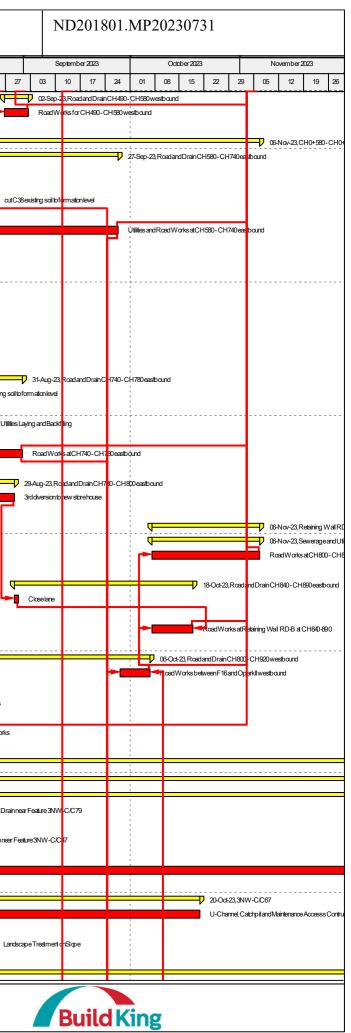
 Actual Work
 Critical Remaining Work
 Summary

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VF10.1&CD1-X5												
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				: : :								
aysafter Stanting D	ate),Worksi	in Portion C :	andC1	: : :								
/safter Starting Da	ate), Works in	n Portion D a	ndD1(26	Nov 2021)							
	da) D'	ng 14/		: :								
aysafterStantingD	aış kemar	ing works		:								
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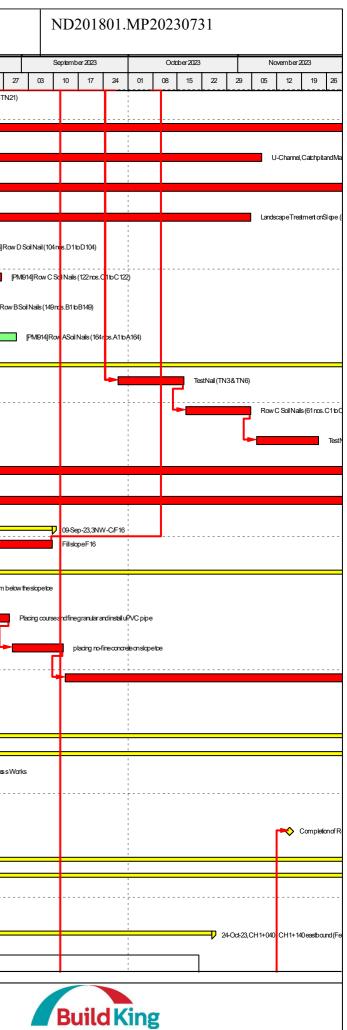
ND/2018/01											ts for Police Fac					MP20230731	
/D	Adivity Name	OriginalDuration	Actual Duration	Total Float	TRA	Start	Finish	LateStart	LateFinish	Activity% Complete	Predecessors	Successors	July 2023	August2023	September 2023	October 2023	November
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KD KE-1150	Completion of Road and Drainat Kong Nga PoRoad	0	0	-48	0		06Nov-23		06-Ju-22	0%	KD BRDV-1400(KD BRD.V+140) KD BRDV-1480(KD BRD.V+140) KD BRDR-180065, KD BRDR-2000, KD BRDR-215075, KD BRDR-150075, KD BRDR-150020, KD BRDR-150020, KD BRDR-150020, KD BRDR-150020, KD BRDR-175040, KD BRDR-175040, KD BRDR-18000, KD B						Completor
KD KE-1200	Completion of Works in KD 1 and KD2	0	0	-488	0		06Nov-23 31-Jul-23		06-Jul-22		KD KE-1450, KD KE-1100, KD KE-1050, KD KE-1350, KD KE-1400, KD KE-1150 KD ARD-2450, KD ARD-2550	PCKD1,PCKD2		Completionof WatermainsattMenKamToR	at		Reference to the second
KD KE-1300	Completion of Watermains at Wankam Lork dad	0	0	-389	U		31-JUF23		06-JUF22	0%	KD ARD-2450, KD ARD-250	KD KE-1200		Completion of WatermainsatManKamToRo	ad		
Submissions and Ap	provals	30	967		0	25-Feb-20A	01-Jun-23A	06-Jul-22	06-Jul-22				pyals			1	
Acceptance of Subcontrac		30	967		0	25-Feb-20A	01-Jun-23A	06-Jul-22	06-Jul-22				actors and Suppliers			1	
KD AS-1700	Interfacebetween CV/2017/02 and ND/2018/01	30	967		0	25-Feb-20A	01-Jun-23A	06-Jul-22	06-Jul-22	100%		KD.AS-1600	, 2/2018/01			1	
Preliminary Works		50	917	-366	0	26-Jun-20A	02-Aug-23	06-May-22	10-May-22				1	02-Aug-23, Preliminary Works		1	
KDBRD-110	Tree Felling Works	7	917	-365	0	26-Jun-20A	01-Aug-23	07-May-22	10-May-22	71.43%	KD.B.RD-1050	KDBRD-0000		Tree Felling Works	· • <mark> </mark>	 	
KD.PW-1150	Site Clearance	50	917	-366	0	26-Jun-20A	02-Aug-23	06-May-22	10-May-22	94%	CS-1650, AS-1100	KD.B.RD-0000		Sile Clearance		1	
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Portion A and A1		36	27		1	17-Jun-23A	21-JU-23A	06-Jul-22	06-Jul-22					Jul-23A, PortionA and A1		2 2 2	
Road, Drain and Utilities W		36	27		1	17-Jun-23A 17-Jun-23A	21-Jul-23A 21-Jul-23A	06-Jul-22 06-Jul-22	06-Jul-22 06-Jul-22					Jul-23A, Road, Drain and Utilities Works		- - 	
Watermains by Trenchles Watermains by Open C		36	27		1	17-Jun-23A	21-Jul-23A	06-Jul-22	06-Jul-22					Jul-23A, Watermains by Trenchless Method Jul-23A, Watermains by Open Cut Method		1 7	
KDARD-2850	Hydrostatic Testfor 400mm Watermains	14	0		0	17-Jun-23A	17-Jun-23A	06-Jul-22	06-Jul-22	100%	KDARD-3000	KDARD-2900, KDARD-2950				1 1 1	
KD ARD-2950	Sterilization and Connection to DN400 Gate ValveProvided by CV/2017/02	22	1		1	20-Jul-23A	21-Jul-23A	06-Jul-22	06-Jul-22	100%	KD ARD-2900, KD ARD-1600, KD ARD-1550, KD ARD-2850	KDARD-2450, KD KE-1350	Se Se		CV/2017/02	1	
Portion B, B1 and B2	·	257	110	-260	10	15-Mar-23A	17-Jan-24	24-Mar-22	03-Mar-23				- - 			1	
Road, Drain and Utilities W		257	110	-260	10	15-Mar-23A	17-Jan-24	24-Mar-22	03-Mar-23						·····		
	Nga Po Road (TTA Required)	257	110	-260	10	15-Mar-23A	17-Jan-24	24-Mar-22	03-Mar-23				:			1	
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											KD.B.RD.W-1020						<u> </u>
Remaining Lev	el of Effort Effort Remaining W	ork	 	Milestor			hvee M	مطغمهما	Delline		ramme (Aug 2						

	AdivityName	OriginalDuration	Actual Duration	Total Float	TRA	Start	Finish	LateStart	LateFinish	Activity% Complet	6 Predecessors e	Successors		July2023		August202		4,	eptember 2023		October 2023		Novemb
H0+80-CH0+320		182	101	-260	1	15-Mar-23A	17-Oct-23	11-May-22	29-Nov-22	<u> </u>			02	09 16 23	30	06 13	20 2	7 03	10 17 :	24 01	08 15 22	29 23,CH0+8	05 12 -CH0+320
Road and Drain CH0+80	+CH190	11	0	-333	0	07-Aug-23	19-Aug-23	02-Jun-22	06-Jul-22				·		7				H0+80-CH190		,		
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						5					KD.B.RD.W-1010		:				0110100-0						
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KD.B.RD.W-1110	watermain diversion for 40PE and 100PE watermain	1	0	-327		11-Aug-28	12-Aug-23	06-Jul-22	06-Jul-22	09	6 KD.B.RD.W-1020,	KD.B.R.D.R-2100.95,				waterr	naindiversionf	or 40PE and 100F	Fwatemain				
						-					KD.B.RD.W-1010, KD.B.RD.W-1000	KD.B.RD.V-1510											
Road and Drain CH0+19		47	0	-366	1	03-Aug-23	26-Sep-23	11-May-22	06-Jul-22 06-Jul-22						9					26-Sep-23,Ro	adandDrainCH0+19)-CH250	
CH190-CH250 eastbou KD.BRD R-2030	4thTTAimplementation	1	0	-366 -366		03-Aug-23 07-Aug-23	26-Sep-23 07-Aug-23	11-May-22 14-May-22	14-May-22	0%	6 KD.B.RD.R-2150.80	KDBRDR-2070, KDBRDR-2170				4thTTAimpk	ementation			26-Sep-23,CH	1190-CH250eastboun	d	
KD.BRD.R-2070	trimming existing road and form formation	7	0	-366		08-Aug-23	15-Aug-23	16-May-22	23-May-22	09	6 KD.B.RD.R-2030	KDBRDR-2080	:		4	ti	nming existing	roadandform fo	mation				
KDBRDR-2080	CH0+190-CH0+250EBUtilities and RoadWorks	36	0	-366	1	16-Aug-23	26-Sep-23	24-May-22	06-Jul-22	09	6 KD B.RD R-2100, KD B.RD R-2170), KD.KE-1150	-							CH0+190-C	H0+250EB Utilities and	RoadWorks	
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KD.BRD R-215080	4th laneshift for roadworks and C47 slope works	3	0	-366		03-Aug-23	05-Aug-23	11-May-22	13-May-22	09	6 KDBRDR-2200, KDBRDR-2150.75,	KDBRD.V-1500, KDBRD.W-1010,				4thlaneshiftform				1			
Road and Drain CH250-(CH320	182	101	-260	0	15-Mar-23A	17-Oct-23	11-May-22	29-Nov-22		KDBRDR-215090	KDBRDR-2030,	-								17-Oct-	23.RoadardE	DrainCH250-CH
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CH250-CH320 eastbou	nd	104	25	-260	0	19-Jun-23A	17-Oct-23	24-May-22	29-Nov-22				:								17-Oct-	23,CH250 CH	H320eastbound
KD.BRD R-1400.300	SlopeDrain and Wire Meshfor SlopeSurface for (3NW-C/C47)	60	0	-260		07-Aug-23	17-Ocl-23	19-Sep-22	29-Nov-22	09	6 KD.B.RD.R-1400.180, KD.B.RD.R-2150.80	KDBRDR-1400310,S1/KE-1300			L -1							rainandW re	eMeshforSlopeS
KD.BRD.R-2170	CH0+250-CH0+320eastboundUtilities and RoadWorks	18	25			19-Jun-23A	20-Jul-23A	24-May-22	24-May-22	1009	6 KD B.RD.R-2030, KD B.RD.R-2150	0 KDBRDR-2080	- - -	CHU	250 CH0+320	astbound Utilities	and Road W/o	ke					
													:	CHU.	230-010-320		anurvauwu	15					
H0+320 - CH0+580		252	96	-260	6	31-Mar-23A	17-Jan-24	07-Jun-22	03-Mar-23				1										
TTA Required Retaining Wall RD-A(Cl	H320-CH390 eastbound and lay-by)	252 188	96 47	-260 -260	6 0	31-Mar-23A 03-Jun-23A	17-Jan-24 17-Jan-24	07-Jun-22 07-Jun-22	03-Mar-23 03-Mar-23				:							1			
KD.B.RD.R-1400.190	Utilities Laying and Backfilling	6	6		0	03-Jun-23A	09-Jun-23A	17-Jun-22	17-Jun-22	1009	6 KD.B.R.D.R-1400.185	KD.B.R.D.R-1400.195	ing	 ¬									
KD B.RD R-1400.195	RoadWorksforCH0+320-CH0+390lay-by and eastbound	6	15	-349	0	12-Jul-23A	26-Aug-23	17-Jun-22	23-Jun-22		6 KDBRDR-1400.190,	KDBRDR-135020	-										
	Road workshol Chron 220 Chron Socialy by a filease of th	0	15	-040	0	12-00-23-1	20149-20	17-001722	2.504 P22		KD B.RD R-1500.75, KD B.RD R-1350.60,	NDD (D) (C) (Q) (Q)						oadWorkstorC	H0+320-CH0+390la	y-by and eastbourn	1		
KD.B.RD.R-1400.310	SlopeDrainandWireMeshforSlopeSurfacefor (3NW-C/F79)	75	0	-260		18-Oct-23	17-Jan-24	30-Nov-22	03-Mar-23	09	6 KDBRDR-1400300	S1/KE-1300											
KD.B.RD.R-1750.102	Drainagebetween S2003-S2101	9	0	-344	0	03-Aug-23	12-Aug-23	07-Jun-22	16-Jun-22		6 KDBRDR-1400.105,	KDBRDR-1400.195	-										
NDDNDN IN INC. INC.	Drai agebeived 10200-02101	5	0	-0#	0	WAQ-20	127409-20	0/-00/222	10001722		KD.B.RD.R-1750.15	ND DI (D) (C) NO ISO	:			Draina	age between S	2003-52101		1			
Road and Drain CH320 -		6	49		1	31-Mar-23A	02-Jun-23A	10-Jun-22	10-Jun-22				0-CH420	Dwestbound									
KD.B.RD.R-1500.75	RoadWorksforCH320-CH420westbound	6	49		1	31-Mar-23A	02-Jun-23A	10-Jun-22	10-Jun-22	1009	6 KD.B.RD.R-1500.125, KD.B.RD.R-1500.30, KD.B.TR-1300	KD.KE-1150, KD.BRD R-175035, KDBRDR-1400.195, KDBRDR-1750.101	estound	1									
Road and Drain CH390 -	CH420 eastbound (near KNP125 Jacking Pit	19	0	-349	0	03-Aug-23	24-Aug-23	10-Jun-22	22-Jun-22						-		24.4	ug-23,Roadand	DrainCH390-CH42	20eastbound(nearl	(NP125Jacking Pit)		
KD.B.RD.R-1750.101	Drainagebetween S2002-S2003LHS	6	0	-341	0	03-Aug-23	09-Aug-23	10-Jun-22	16-Jun-22	09	6 KDBRDR-1400.105, KDBRDR-1750.15,	KDBRDR-175035			┝╾══	Drainaget	between S2002	-S2003LHS		1			
KD B.RD R-1750.35	RoadWorksforCH390-CH420eastbound	4	0	-349		19-Aug-23	24-Aug-23	17-Jun-22	22-Jun-22	09	KDBRDR-1500.75 6 KDBRDR-1500.75,	KD.KE-1150, KD.BRD R-160070,					Rre	dWarksfor CH'	90-CH420eastbourd	d		—	
						<u> </u>					KDBRDR-136060, KDBRDR-170030,	KDBRDR-135020								-			
	CH490 eastbound and layby (PDU)	6	0	-349	0	19-Aug-23	26-Aug-23	17-Jun-22	23-Jun-22	~									dDrainCH420-CH		layby (PDU)		
KD.B.RD.R-1600.70	ReadWorksatCH420-CH490eastbound	6	0	-349		19-Aug-23	26-Aug-23	17-Jun-22	23-Jun-22	09	6 KDBRDR-170030, KDBRDR-175035	KD.KE-1150, KD.BRD R-135020					R	oadWorksatCH	420-CH490eastbour	nd			
Road and Drain CH420 -		12	12		1	27-Jun-23A	12-Jul-23A	17-Jun-22	17-Jun-22				-	12-Jul-23A, Road	land Drain CH4	20-CH490 west	bound			- 			
KD B.RD R-1350.60	RoadWorksforCH420-CH490westbound	12	12		1	27-Jun-23A	12-Jul-23A	17-Jun-22	17-Jun-22	1009	6 KDBRDR-1350,50, KDBRDR-1650,15, KDBRDV,1500	KD.KE-1150, KD.BRD R-175035, KD.B.RD.R-1400.195		RoadWorksfor	CH420-CH490	westbound				1			
Road and Drain CH490 -	CH580 eastbound	89	46	-349	3	28-Apr-23A	07-Sep-23	17-Jun-22	06-Jul-22		KDBRD.V-1500		-				+	 a	-Sep-23,RoadandD	rain CH490-CH5	80 eastbound		
KD.B.RD.R-1350.10	Utilities Laying and Backfilling	15	15		1	03-Jun-23A	20-Jun-23A	17-Jun-22	17-Jun-22	1009	6 KD.B.RD.R-160025	S1BSL-1060, KD BRD R-170040, KD BRD R-170030	ying and B	Badkfilling	_		1	•					
KD.B.RD.R-1700.30	RoadWorksforCH490-CH520eastbound	4	46		1	28-Apr-23A	24-Jun-23A	17-Jun-22	17-Jun-22	100%	6 KDBRDR-1350.10	KDBRDR-1600.70,	dW/orles (far CH490-CH520eestbaun	<u> </u>	<u></u>							
		-	~~			207 pi-20M	2.7001/20/N	77-04 F22		1007		KDBRDR-175035, KDBRDR-1400.195	uvv orksto	u UT490-UH520685DOUN						4 8 8			
KD.B.RD.R-1700.40	RoadWorksforCH520-CH580eastbound	4	0	-349	1	02-Sep-23	07-Sep-23	02-Jul-22	06-Jul-22	09	6 KDBRDR-135020, KDBRDR-1350.10	KD.KE-1150						R	badWorksforCH52	0-CH580eastbou	nd		
													1							1			

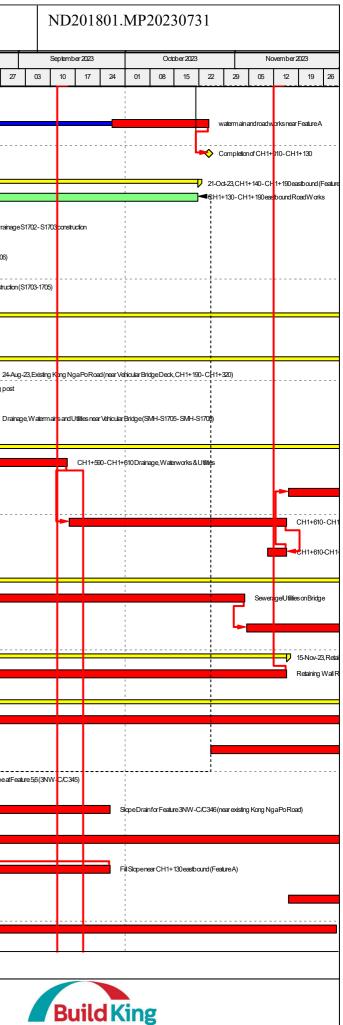
	AdivityName	OriginalDuration	Actual Duration	Total Float	TRA	Start	Finish	LateStart	LateFinish	Activity %	Predecessors	Successors	July 2023		A
										Complete			02 09 16	23	30 06
Road and Drain CH490 -	CH580 westbound	6	0	-349	1	26-Aug-23	02-Sep-23	24-Jun-22	30-Jun-22						
KD B.RD R-135020	RoadWorksforCH490-CH580westbound	6	0	-349	1	26-Aug-23	02-Sep-23	24-Jun-22	30-Jun-22	0%	KDBRDR-170020, KDBRDR-1400.195, KDBRDR-175035,	KD KE-1150 KD BRD R-170040			
CH0+580 - CH0+920		132	50	-398	3	31-May-23A	06-Nov-23	24-Mar-22	06-Jul-22		40000040000				
Road and Drain CH580 - C		101	50	-398	0	31-May-23A	27-Sep-23	24-Mar-22	28-May-22	4000/	10 0 0 0 0 0000				
KDBRDR-2510	implementation of single lane TTA	3	3			31-May-23A	02-Jun-23A	24-Mar-22	24-Mar-22	100%	KDBRDR-180065, KDBRDR-182005, KDBRDR-185065	NCE812005, KD BRD R-1950.30			
KDBRDR-2520	cutC38existing soil loformationlevel	30	13	-398		15-Jul-23A	23-Aug-23	24-Mar-22	21-Apr-22	30%	NCE812060	S1B.SLC38-1350, KDBRDR-1820.15, KDBRDR-2540			
KDBRDR-2540	Utilities and RoadWorks at CH580-CH740eastbound	30	0	-398		24-Aug-23	27-Sep-23	22-Apr-22	28-May-22	0%	KD B.RD R-1950.30, KD B.RD R-2520	KD.KE-1150 KD.BRD R-220060, S1B.SLC38-1350			
NCE812005	Extraduration for 100PE installation at EastBound (cross road)	7	7		0	03-Jun-23A	10-Jun-23A	24-Mar-22	24-Mar-22	100%	KD.B.RD.R-2510, NCE812000	NCE812010	installation at East Bound (cros	s road)	
NCE812010	Extraduration for watermaintest	14	14		0	12-Jun-23A	28-Jun-23A	24-Mar-22	24-Mar-22	100%	NCE812005	NCE812070	; Extraduration for watermain		
NCE812060	Extraduration for exposing watermain before diversion	4	3		0	03-Jul-23A	06-Jul-23A	24-Mar-22	24-Mar-22	100%	NCE812070	KDBRDR-2520	Extraduration for e	exposing waterm	nainbeforedive
NCE812070	Extraduration for WSD connection	9	0		0	08-Jul-23A	08-Jul-23A	24-Mar-22	24-Mar-22	100%	NCE812010	NCE812060	Extraduration f	iar W SD connect	tian
Pood and Drain OUT(C	LI700 earthquad	75	13	-375	0	15-Jul-23A	31-Aug-23	04-Apr-22	28 May 22						
Road and Drain CH740 - C KDBRDR-1950.30	CutC38existing soitoformationlevel	75 12	13 13	-3/5 -389	U	15-Jui-23A 15-Jui-23A	31-Aug-23 12-Aug-23	04-Apr-22	28-May-22 21-Apr-22	0%	KD.B.RD.R-2510	KD.B.R.D.R-1950.40,			
		-				10 04 2011	.2.149.20	011012	2.7.0.2			KDBRDR-2540			
KDBRDR-1950.40	Utilities Laying and Backfilling	8	0	-375		14-Aug-23	22-Aug-23	11-May-22	19-May-22	0%	KD BRD R-1950.30	KDBRDR-195060			4
KDBRD.R-1950.60	RoadWorksatCH740-CH780eastbound	8	0	-375		23-Aug-23	31-Aug-23	20-May-22	28-May-22	0%	KD.B.RD.R-1960.40	KD.KE-1150 KD.BRD R-220060, S1B.SLC38-1350			
Road and Drain CH780 - C	H800 eastbound	4	0	-342	0	24-Aug-23	29-Aug-23	29-Jun-22	05-Jul-22				2 2 2		
KDBRDR-1820.40	3rd diversion to new stare house	4	0	-342		24-Aug-23	29-Aug-23	29-Jun-22	05-Jul-22	0%	KD BRD R-182020	KDBRDR-1550.35			
Retaining Wall RD-B		25	0	-398	0	07-Ocl-23	06-Nov-23	07-Jun-22	06-Jul-22						
Sewerage and Utiliites		25	0	-398	0	07-Oct-23	06-Nov-23	07-Jun-22	06-Jul-22		10 0 0 0 0 0000				
KD B.RD.R-1050.430	RoadWorksatCH800-CH840eastboundandlayby	25	0	-398	0	07-Oct-23	06-Nov-23	07-Jun-22	06-Jul-22	0%	KDBRDR-105090, KDBRDR-220060	KD.KE-1150			
Road and Drain CH840 - C	CH890 eastbound	42	0	-383	2	29-Aug-23	18-Oct-23	24-Jun-22	06-Jul-22						
KD.B.RD.R-1550.35	Closelane	1	0	-342	1	29-Aug-23	30-Aug-23	06-Jul-22	06-Jul-22	0%	KDBRDR-1550.30, KDBRDR-1820.40	KDBRDR-155045			
KDBRDR-155045	RoadWorksatRetaining Wal RD-B at CH840-890	10	0	-383	1	07-Oct-23	18-Oct-23	24-Jun-22	06-Jul-22	0%	KD.B.RD.R-1550.35, KD.B.RD.R-220060	KD.KE-11.50			
Road and Drain CH800 - C	1920 westbound	57	0	-373	1	31-Jul-23	06-Oct-23	30-May-22	06-Jul-22				1 1		
KDBRDR-220060	RoadWorksbetweenF16andOparkilwestbound	6	0	-398	1	28-Sep-23	06-Oct-23	30-May-22	06-Jun-22	0%	S1.B.SL.F16-1000, KD.B.RD.R-182020,	KD.KE-1150 KD.BRD R-1050430 KD.B.RD.R-155045,			
KD BRD R-2200.70	OPIIJunctionRHS roadworks	2	0	-320		31-Jul-23	01-Aug-23	02-Jul-22	04-Jul-22	0%	KDBRDR-195060, S2CRD.V-1150,S2CRD.V-1150	KDBRDR-225035 S2C:SF-1450,KDBRDR-220080		┎╼┨	
KD.B.RD.R-2200.80	OPIIJunctionLHSRoadworks	2	0	-320		02-Aug-23	03-Aug-23	05-Jul-22	06-Jui-22		KD.B.R.D.R-2200.70	KD.KE-1150		Π	
		-	Ŭ			uz nug zo	00/10/20	000022	000022	0,0		1012100			- OPIJur
ction 1 (Portions A, A	A1, B, B1 and B2)	437	482	338	39	09-Dec-21A	21-Feb-24 21-Feb-24	21-Apr-22	05-Apr-25				1 1 1 1		
rtion B, B1 and B2		437	482	338	39	09-Dec-21A		21-Apr-22	05-Apr-25 05-Apr-25				- 		
te Formation and Slope Wo 51B.SL-1060	rks SurfaceDrainnear Feature 3NW-C/C79	12	0	338 -134	39	09-Dec-21A 03-Aug-23	21-Feb-24 16-Aug-23	21-Apr-22 18-Feb-23	03-Mar-23	0%	KDBRDR-1350.10	S1/KE-1300	1 		- -
S1B.SL-1110	SurfaceDrainnear Feature3NW-C/C47	12	0	-131		31-Jul-23	12-Aug-23	18-Feb-23	03-Mar-23	0%		S1/KE-1300			
S1B.SL-1150	Skope Upgrading Works for Feature 3NW-C/F17	120	0	-270	1	31-Jul-23	20-Dec-23	30-Aug-22	26-Jan-23	0%	KD.B.RD.R-1050.105	S1/KE-1300, S1BLD-1450			
3NW-C/C67		69	291	-188	0	05-Aug-22A	20-Oct-23	07-Dec-22	03-Mar-23						
S1B.SLC67-1750	U-Channel, Catchpit and Maintenance Accesses Contruction	69	291	-188	0	05-Aug-22A	20-Oct-23	07-Dec-22	03-Mar-23	0%	S1B.SLC67-1650	S1/KE-1300, S1.B.SLC67-1850		━╋	
S1B.SLC67-1850	LandscapeTreatmentonSlope	69	286	-140	0	11-Aug-22A	23-Aug-23	08-Feb-23	03-Mar-23	70%	S1BSLC67-1750	S1KE-1300	:	━╋	+
NW-C/C43		374	482	356	28	09-Dec-21A	27-Jan-24	31-Aug-22	05-Apr-25				 		
Remaining Level of the second seco	of Effort Effort Remaining Wo	ork o	 	Milestor			'hree N		Delline			2023 - Oct 202			



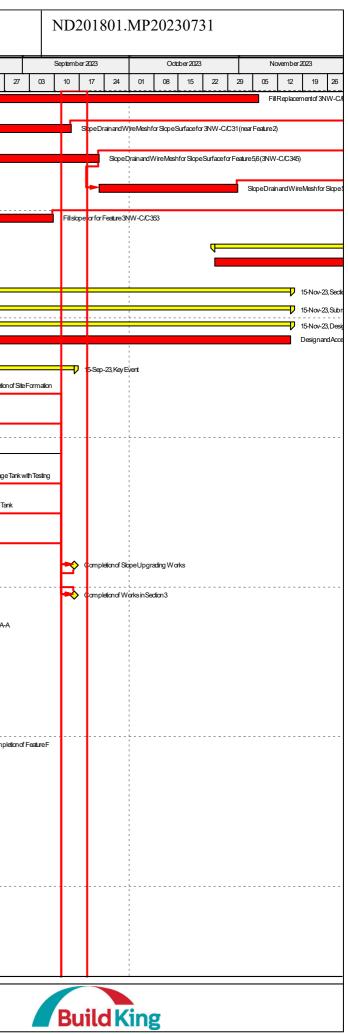
/2018/01															
	Activity Name	OriginalDuration	ActualDuration	Total Float	TRA	Start	Finish	LateStart	LateFinish	Activity% Complete	Predecessors	Successors	July 2023	23 30	August
S1B.SLC43-1150	TestNails (TN1b/TN21)	40	276	-158	1	23-Aug-22A	10-Aug-23	13-Jan-23	28-Jan-23	75%	S1B.SLC43-1050	S1BSLC43-2000, S1BSLC43-2160, S1BSLC43-2140			Test
S1.B.SLC43-1400	U-Channel, Catchpit and Maintenance Accesss Contruction (Portion 1 & II)	150	0	-269	6	31-Jul-23	27-Jan-24	31-Aug-22	03-Mar-23	0%	S1.B.SLC43-1050	S1KE-1300, S1B.SLC43-1550	1 1 1 1	<u></u> ↓	
S1B.SLC43-1450	U-Channel, Catchpit and Maintenance Accesss Contruction (Portion III & M)	83	0	-254	5	31-Jul-23	07-Nov-23	19-Sep-22	28-Dec-22	0%	S1B.SLC43-1050	S1KE-1300, S1B.SLC43-1500			
S1B.SLC43-1500	Landscape Treatment on Slope (Portion & II)	135	0	-254	6	31-Jul-23	10-Jan-24	19-Sep-22	03-Mar-23	0%	S1B.SLC43-1450	S1KE-1300			
S1B.SLC43-1550	Landscape Treatment on Sliope (Pontion II & M)	135	105	-200	6	21-Mar-23A	04-Nov-23	23-Nov-22	03-Mar-23	40%	S1BSLC43-1400	S1/KE-1300	1 1 1 1	╞┥═╸	
S1.B.SLC43-2140	[PMI914]Row D Soil Nail (104 nos. D 1 to D 104)	20	207	-158	1	15-Nov-22A	17-Aug-23	28-Jan-23	04-Feb-23	72.1%	PM432,S1B.SLC43-1150	S1B.SLC43-2150			
S1B.SLC43-2150	[PM1914] Row C Soil Nails (122 nos. C1 to C122)	27	209	-158	1	12-Nov-22A	26-Aug-23	04-Feb-23	13-Feb-23	71.4%	S1BSLC43-2140	S1B.SLC43-2100			
		30	482	479	1			18-Mar-25	24-Mar-25		S1B.SLC43-1150		1 1 1 1	Π	_
S1B.SLC43-2160	[PMI914]Row B Soil Nails (149 nos. B1 b B149)					09-Dec-21A	16-Aug-23*					S1B.SLC43-2170	1 		!
S1B.SLC43-2170	[PMI914]Row ASail Nails (164 nos. A1 to A164)	33	254	479	1	19-Sep-22A	30-Aug-23*	24-Mar-25	05-Apr-25	65.03%	S1.B.SLC43-2160		8 8 8	Ħ	(
3NW-C/C38 S1B.SLC38-1350	TestNail(TN3&TN6)	168 14	0	-287 -309	9 0	31-Jul-23 28-Sep-23	21-Feb-24 16-Oct-23	10-Aug-22 14-Sep-22	03-Mar-23 29-Sep-22	0%	S1B.SLC38-1250, KD.B.RD.R-2520, KD.B.RD.R-2540	S1B.SLC38-1400			
S1B.SLC38-1400	Row C Soil Nails (61 nos. C1 to C61)	16	0	-309	1	17-Oct-23	04-Nov-23	30-Sep-22	20-Oct-22	0%	KDBRDR-2220, KDBRDR-2294 KDBRDR-195060 S1BSLC38-1350	S1B.SLC38-1600			
S1.B.SLC38-1600	TestNails (TN2&TN5)	16	0	-309	1	06-Nov-23	23-Nov-23	21-Oct-22	08-Nov-22	0%	S1BSLC38-1400	S1B.SLC38-1650			
S1.B.SLC38-1850	U-Channel, Catchpit and Maintenance Accesss Contruction	168	0	-287	4	31-Jul-23	21-Feb-24	10-Aug-22	03-Mar-23	0%	S1B.SLC38-1800	S1KE-1300, S1B.SLC38-1900	1 1 1 1 2	┢┦▀	
S1.B.SLC38-1900	Landscape Treatment on Slope	145	0	-264	3	31-Jul-23	22-Jan-24	06-Sep-22	03-Mar-23	0%	S1.B.SLC38-1850	S1KE-1300	1 1 1 1		
3NW-C/F16 S1.B.SLF16-1000	FillskopeF16	90	50 50	-378 -378	1	31-May-23A 31-May-23A	09-Sep-23 09-Sep-23	21-Apr-22 21-Apr-22	04.Jun-22 04.Jun-22	60%	KD.B.R.D.R-2200.35,	KDBRDR-2200.60	1 		
						,, <u>_</u>					KD.B.RD.R-220040				
3NW-C/F21		135	0	-315	0	03-Aug-23	13-Jan-24	12-Jul-22	19-Dec-22			C1DC1 F21 4040		₽	
S1.B.SLF21-1000	Excavate300mm below the slope loe	8	0	-315		03-Aug-23	11-Aug-28	12-Jul-22	20-Jul-22	0%	KD.SDR.FT-1450, KD.B.GI-1550, KD.D.S-1150, KDMS-1150, KD.SDR.FD-1000,	S1B.SLF21-1010	- - - - -	"	
S1.B.SLF21-1010	Placing course and fine granular and install uPVC pipe	14	0	-315		12-Aug-23	28-Aug-23	21-Jul-22	05-Aug-22	0%	S1BSLF21-1000	S1B.SLF21-1020			╞┣
S1.B.SLF21-1020	placing no-fine concrete on slope toe	13	0	-315		29-Aug-23	12-Sep-23	06-Aug-22	20-Aug-22	0%	S1.B.SL.F21-1010	S1B.SLF21-1030	1 1 1 1 1 1		
S1.B.SLF21-1030	srtlestblevel below no-fine concrete slope crest	90	0	-315		13-Sep-23	02-Jan-24	22-Aug-22	07-Dec-22	0%	S1B.SLF21-1020	S1B.SLF21-1040	1 1 1 1 1 1 1 1		
S1.B.SLF21-1040	placing no-fine concrete on slope crest	10	0	-315		03-Jan-24	13-Jan-24	08-Dec-22	19-Dec-22	0%	S1.B.SL.F21-1030	S1B.SLF21-1050			
ection 2 (Portions	C and C1)	430	319	336	37	31-Aug-22A	23-Feb-24	05-Nov-21	05-Apr-25					┢┿	
Key Event		113	0	-232	0	31-Jul-23	12-Dec-23	03-Mar-23	03-Mar-23						<u> </u>
S2KE-1000	Completion of Drainage TrenchessWorks	0	0	-149	0		31-Jul-23		03-Mar-23	0%	S2.C.TD-1250, S2.C.TD-1300	S2KE-1300		🔷 C(empletion of Drain
S2KE-1200	Completion of Slope Upgrading Works	0	0	-284	0		12-Dec-23		03-Mar-23	0%	S2.GM-1100 S2.GM-1000,	S2KE-1300			
S2/KE-1250	Completion of Retaining Walls	0	0	-209	0		15-Nov-23		03-Mar-23	0%	S2.GM-1200, S2.GM-1500, S2.C.R.W-1050.10, S2.C.R.W-1000	S2KE-1300	1 1 1 1 1 1		
Road, Drain and Util	ities Works	430	319	336	12	31-Aug-22A	23-Feb-24	05-Nov-21	05-Apr-25				- - - - -	╊┿┷	<u> </u>
Works at Existing Verge		331	319	386	3	31-Aug-22A	20-Dec-23	02-Jul-22	05-Apr-25				1 1	╉┿┯╵	
CH0+920 - CH1+040 east S2CRD.V-1150	bound (OPII to Feature A) RoadworksatFeature1	51	68 68		3	15-Apr-23A	07-Jul-23A 07-Jul-23A	02-Jul-22 02-Jul-22	02-Jul-22	4000/	S2C.SF-1550	KDBRDR-2200.70,	07-Jul-23A,CH0+920		astbound(OPIItb)
52C RD.V-1150	Raduworksatreature i	51	00		3	15-Apr-23A	07-JUF23A	U2-JU-22	02-Jul-22	100%	32U.SF-100	KDBRDR-2200.70	Roadworks at Feature	1	
	bound (Feature A to Feature 4)	215	219	-232	0	31-Dec-22A	24-Oct-23	17-Oct-22	10-Jan-23					╞┿═	
S2C.RD.V-1100	Drainage S1801 - S1802 - S1803, Utilities and RoadWorks	30	119			31-Dec-22A	31-May-23A	10-Jan-23	10-Jan-23	100%	S2C.RD.V-1040,S2C.RD.V-1124	S2C.RD.V-1500	s and Road Works	╋	
													1		
	vel of Effort Remaining Wo		 	Milestor						_		2023 - Oct 20			



		1	1						1			1.0			
	AdivityName	OriginalDuration	Actual Duration	Total Float	TRA	Slart	Finish	LateStart	LateFinish	Activity% Complete	Predecessors	Successors	July 2023	23 3	Augus
S2C.RD.V-1114	Manhole construction (KNP108A-107)	14	14			31-May-23A	15-Jun-23A	17-Oc‡22	17-Oct-22	100%	S2C.RD.V-1112	S2C.SF-1250	fon(KNP108A-107)	┰┶╼	
S2C.RD.V-1134	watermain and road works near Feature A	21	50	-232		31-Jul-23A	24-Oct-23	14-Dec-22	10-Jan-23	0%	S2C.SF-1250	S2CRD.V-1500			
S2C.RD.V-1500	Completion of CH1+010-CH1+130	0	0	-232			24-Oct-23		10-Jan-23	0%	\$2CRD.V-1100, \$2CRD.V-1090, \$2CRD.V-1134	S2C.SF-1050			
CU14:440 CU14:400 cost	Abarrad (Fastrum Ata Fastrum Crassy Abretus and A	330	269	436	0	31-Aug-22A	21-Oct-23	28-Nov-22	05-Apr-25		32010.0-1104				
S2CRD.R-1050	tbound (Feature 4 to Feature 6, near Abutment A CH1+130-CH1+190eesboundReadWorks	50	0	436	0	23-Aug-23	21-Oct-23	07-Feb-25	05-Apr-25	0%	S2CRD.V-1110,S2CRD.V-1230, S2C.SF-1160,S2CRD.V-1510			\square	
S2C.RD.V-1110	DrainageS1702-S1703construction	20	269	436		31-Aug-22A	22-Aug-23	15-Jan-25	06-Feb-25	0%	S2C.RD.V-1080	S2CRD R-1050		┢┙╔	
S2C RD.V-1230	Manhole construction (KNP107-106)	14	114	-185		10-Mar-23A	01-Aug-23	10-Dec-22	12-Dec-22	90%	S2CRD.V-1170	S2C.SF-1160 S2C RDR -1050			
				-100			01710920	100022	120022				1	F	Manholeconstruct
S2C.RD.V-1510	Manhole construction (S1703-1705)	14	55	-196		24-May-23A	14-Aug-23	28-Nov-22	12-Dec-22	10%	S2C.RD.V-1160,S2C.RD.V-1180	S2C.SF-1160, S2C.RDR -1050	1 1 1	₽	
CH1+320 - CH1+340 (nea		14	8	-239	0	21-Jul-23A	20-Dec-23	16-Feb-23	03-Mar-23		000.05 400 000.05 44D	2015 400		┢	
S2C RD R-1210	Roadworks at CH1+320-CH1+340	14	8	-239		21-Jul-23A	20-Dec-23	16-Feb-23	03-Mar-23	0%	S2C.SF-1300,S2C.SF-1100	S2KE-1100	1 1 1	T	
	Nga Po Road (TTA Required)	198	29	336	9	22-Jun-23A	23-Feb-24	05-Nov-21	05-Apr-25				- 1 	╞┿	
	Road (near Vehicular Bridge Deck, CH1+190 - CH1	50	29	484	3	22-Jun-23A	24-Aug-23	22-Nov-22	05-Apr-25				, ,		
CE480.1000	Install public lighting ducting and lighting post	14	29			22-Jun-23A	28-Jul-23A	05-Apr-25	05-Apr-25	100%	S2CRDR-1150		- - - - 	i Insta	tall public lighting duc
S2C RD R-1150	Drainage, Watermains and Utilities near Vehicular Bridge (SMH-S1705-SMH-S1708)	22	0	-201	3	31-Jul-23	24-Aug-23	22-Nov-22	16-Dec-22	0%	S2C BG-1450	S2CLD-1150 S2C.SF-1170, S2C.SF-1640, S2C.SF-1600, CE480.1000			
CH1+590-CH1+690 (beyo S2CRD.R-1600	ond portion D main site entrance) CH1+590-CH1+610Drainage,Waterworks&Utilities	170 40	0	-321 -511	6 3	31-Jul-23 31-Jul-23*	23-Feb-24 14-Sep-23	05-Nov-21 05-Nov-21	25-Jan-23 21-Dec-21	0%	S3D.SF-3600	S3D.SL-2420, S2C RD R-1700			
S2C.RD.R-1650	CH1+610-CH1+690westboundDrainage&Utilities	80	0	-321	3	16-Nov-23	23-Feb-24	18-Oct-22	25-Jan-23	0%	S2CRDR-1710	S2CLD-1000, S2C RD R-1660,			
	Waterworks											S2C.SF-1400			
S2C RD R-1700	CH1+610-CH1+690eestbound Utilities Waterworks	50	0	-321	0	15-Sep-23	15-Nov-23	17-Aug-22	17-Od⊧22	0%	S2CRDR-1600	S2KE-1100,S2C.ID-1000, S2CRD.R-1710			
S2C RD R-1710	CH1+610-CH1+690 eastbound roadworks	5	0	-321		10-Nov-23	15-Nov-23	12-Oct-22	17-Ocl-22	0%	S2CRDR-1700	S2CRD R-1650			
ridge Construction	ı (CH1+190 - CH1+320)	140	0	-259	6	31-Jul-23	16-Jan-24	13-Sep-22	03-Mar-23					-	
2.C.BG-1500	SewerageUtilities on Bridge	80	0	-259	2	31-Jul-23	03-Nov-23	13-Sep-22	16-Dec-22	0%	S2.C.BG-1450	S2C BG-1550	1 1 1		
2C.BG-1550	FlexibleRoadConstruction	60	0	-259	4	04-Nov-23	16-Jan-24	17-Dec-22	03-Mar-23	0%	S2C.BG-1500	S2/KE-1050			
etaining Wall		90	0	-209	1	31-Jul-23	15-Nov-23	12-Nov-22	03-Mar-23						
2C.RW-1000	Retaining Wall RD-D	90	0	-209	1	31-Jul-23	15-Nov-23	12-Nov-22	03-Mar-23	0%	S2C.GI-1300, S2SDR.FT-1450, S2SDR.FD-1100, S2GM-1200	S2KE-1250			
ite Formation and S	Slope Upgrading Works	230	78	-289	18	28-Apr-23A	23-Feb-24	11-Aug-22	03-Mar-23		S2CRDR-1200		1 1 1	▙	
2C.SF-1100	FilSkopenearFeatureB	120	0	-240	1	31-Jul-23	20-Dec-23	07-Oct-22	02-Mar-23	0%	S2.GM-1000, S2.C.BG-1600.10, S2.C.SF-0000, S2.GM-1500,	S2C.SF-1150, S2KE-1150, S2CRD R-1210			
2.C.SF-1150	Fill Stopenear CH1+310R (Feature Bnear Bridge Abutment) inc.drain&protectfor existing 3NW-C/C353	50	0	-240	2	25-Oct-23	21-Dec-23	31-Dec-22	03-Mar-23	0%	S2C.RW-1050.10, S2C.SF-0000,S2C.SF-1100, S2C.RW-1050.10,	S2KE-1150			
2C.SF-1160	FillSkpeatFeature56(3NW-C/C345)	14	76	-196		28-Apr-23A	18-Aug-23	12-Dec-22	16-Dec-22	70%	S2CBG-1600.10, S2CRW-105020 S2CBG-1450, S2CRD.V-1230,	S2KE-1150,S2C.SF-1620,	, , , ,		
2C.SF-1170	StopeDrainfor Feature 3NW-C/C346 (near existing Kong	28	0	-169		25-Aug-23	26-Sep-23	31-Jan-23	03-Mar-23	0%	S2CRD.V-1510 S2CRD.R-1150, S2C BG1450	S2CRD R-1050 S2KE-1150			ſ
	NgaPoRoad)														
2C.SF-1200	FillSkopenear CH1+360R (near 3NW-C/C351)	150	0	-269	6	31-Jul-23	27-Jan-24	31-Aug-22	03-Mar-23	U%	S2C.SF-0000, S2C.RD.V-1050, S3D.RW-DA-A-1100.85	S2KE-1150			
32.C.SF-1250	FillSkopenear CH1+130eastbound(FeatureA)	50	0	-232	1	31-Jul-23	26-Sep-23	17-Ocl-22	13-Dec-22	0%	S2C.SF-0000, S2SDR.FT-1000, S2C.RD.V-1114, S2C.RD.V-1124	S2KE-1150,S2C.ID-1100, S2CRD.V-1134			-
32.C.SF-1400	FillSlopenear CH1+620westbound	80	0	-289	3	16-Nov-23	23-Feb-24	24-Nov-22	03-Mar-23	0%	S2C.SF-0000, S2C RD R-1650	S2KE-1150			
32.C.SF-1450	Fill Skopenear CH0+900-CH1+040 westbound (Feature 2)	100	2	-288	5	31-Jul-23A	29-Nov-23	11-Aug-22	08-Dec-22	0%	S2C.SF-0000, S2C RD R-1350.10, KD BRD R-2200.70	S2KE-1150,S2C.ID-1200, S2C.SF-1610,S2C.RD.R-1450	1 1 1 1		
]	l:	1	
Remaining Lev	vel of Effort Remaining Wo	ork	♦ ♦	Milestor	ne	T	hree N	onths	Rolling	Prog	amme (Aug 2	2023 - Oct 202	23)		

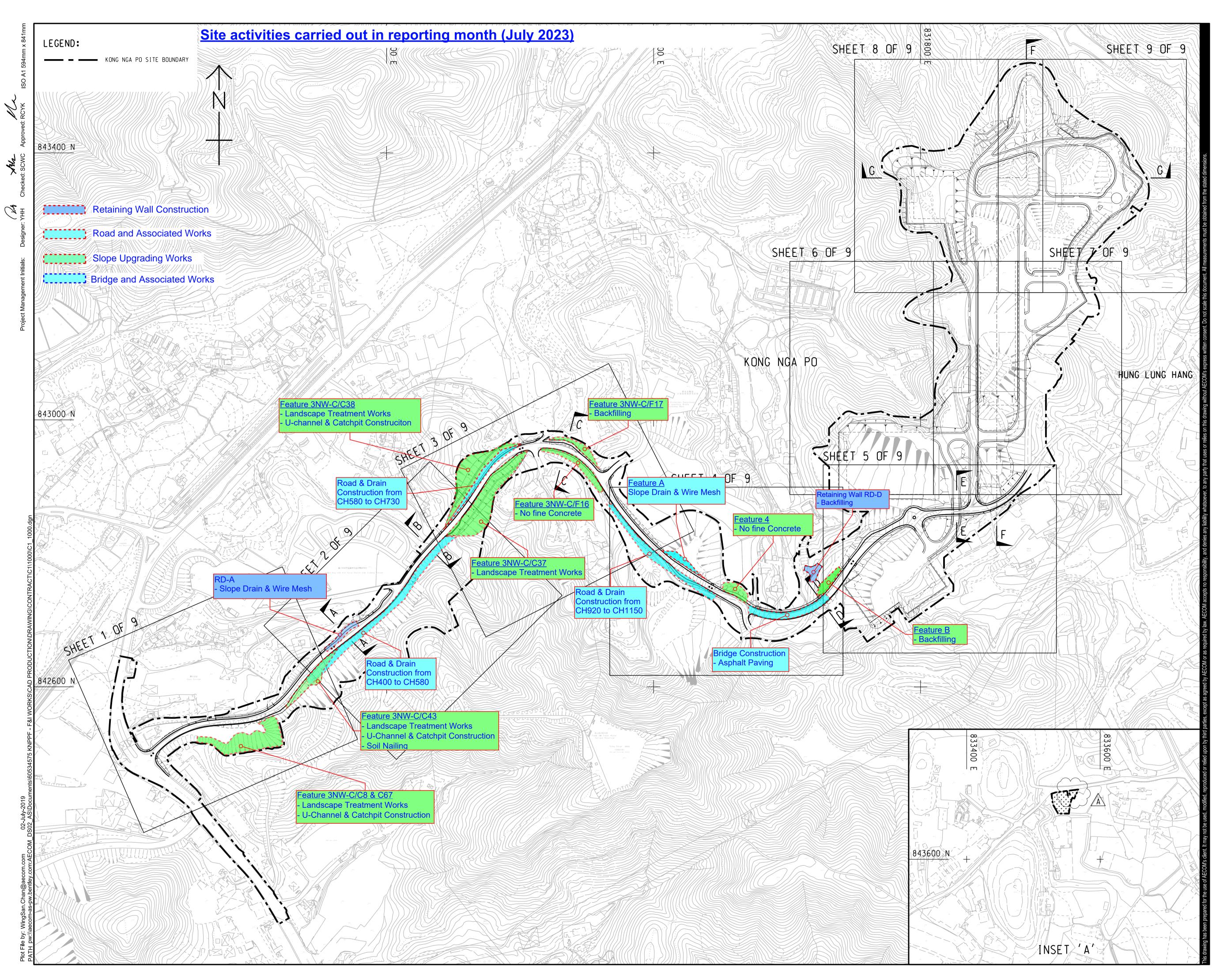


			1	1	1								1.0				
Image: sector		AdivityName	OriginalDuration	Actual Duration	Total Float	TRA	Start	Finish	LateStart	LateFinish	Activity% Complete	Predecessors	Successors	μ	-	, L ,	August202
Mathem Mathm Mathem Mathem Mathem <td>S2.C.SF-1600</td> <td>Fill Replacement of 3NW - CIF54 (near Bridge)</td> <td>60</td> <td>0</td> <td>-201</td> <td>0</td> <td>25-Aug-23</td> <td>06-Nov-23</td> <td>17-Dec-22</td> <td>03-Mar-23</td> <td>0%</td> <td></td> <td>S2KE-1150</td> <td></td> <td><u> </u></td> <td></td> <td></td>	S2.C.SF-1600	Fill Replacement of 3NW - CIF54 (near Bridge)	60	0	-201	0	25-Aug-23	06-Nov-23	17-Dec-22	03-Mar-23	0%		S2KE-1150		<u> </u>		
Index	S2C.SF-1610		40	0	-159		31-Jul-23	14-Sep-23	13-Jan-23	03-Mar-23	0%	S2C.SF-1450	S2KE-1200		Ļ	-	┿╸
Order	S2C.SF-1620		30	0	-196		18-Aug-23	22-Sep-23	17-Dec-22	27-Jan-23	0%	S2C.SF-1160	S2KE-1200, S2C.SF-1630				┕╼╻
Read	S2C.SF-1630	SkpeDrain and Wire Meshfor SkpeSurface neart Existing Kong Nga Po Road (3NW-C/C346)	30	0	-196		22-Sep-23	31-Oct-23	28-Jan-23	03-Mar-23	0%	S2C.SF-1620	S2KE-1200				
Backbargerstrate dependence Park Park <t< td=""><td>S2.C.SF-1640</td><td>FillskopeforforFeature3NW-C/C363</td><td>14</td><td>0</td><td>-155</td><td></td><td>25-Aug-23</td><td>09-Sep-23</td><td>16-Feb-23</td><td>03-Mar-23</td><td>0%</td><td>S2CRDR-1150, S2C BG-1450</td><td>S2KE-1200</td><td></td><td></td><td></td><td></td></t<>	S2.C.SF-1640	FillskopeforforFeature3NW-C/C363	14	0	-155		25-Aug-23	09-Sep-23	16-Feb-23	03-Mar-23	0%	S2CRDR-1150, S2C BG-1450	S2KE-1200				
And Algorithm And Algo		[PMI514]SlopeDrainandWireMeshforSlopeSurfacefor				0					0%	\$2C.\$F-1070	S2KE-1200				
Barbon Statute (1) Statute (1) <td>Costion 2 (Doution</td> <td></td> <td>580</td> <td>525</td> <td>416</td> <td>8</td> <td>20-Oct-21A</td> <td>15-Nov-23</td> <td>30-Sep-21</td> <td>05-Apr-25</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Costion 2 (Doution		580	525	416	8	20-Oct-21A	15-Nov-23	30-Sep-21	05-Apr-25							
Normality (asympty) 1 2	•	· · · · ·				0											
Control Statute Processor B COL C Statute Processor Statute Proces		•••															- <u></u>
Note were bound Control		Design and Acceptance of E&M Installation on Sewage									0%	\$3.GS-1700	S3D.SEW-1300				
Nor-Hith Openstrainment O O O Nor-Hith O O Nor-Hith O	Key Event		91	0	465	0	31-May-23A	15-Sep-23	22-Dec-21	05-Apr-25				; 		<u> </u>	
805-70 0mmminflatting VAL 0 0 0.0 <td></td> <td>Completion of Sile Formation</td> <td>0</td> <td>0</td> <td>-602</td> <td>0</td> <td></td> <td>16-Aug-23</td> <td></td> <td>22-Dec-21</td> <td>0%</td> <td>S3D.SF-2000, S3D.SF-1200, S3D.SF-2200, S3D.SF-2300,</td> <td>S3KE-1500</td> <td></td> <td></td> <td></td> <td>~</td>		Completion of Sile Formation	0	0	-602	0		16-Aug-23		22-Dec-21	0%	S3D.SF-2000, S3D.SF-1200, S3D.SF-2200, S3D.SF-2300,	S3KE-1500				~
Set Ed Omitted Hackbillion O <td>S3/KE-1200</td> <td>Completion of Relaining Walls</td> <td>0</td> <td>0</td> <td>-585</td> <td>0</td> <td></td> <td>31-Jul-23</td> <td></td> <td>22-Dec-21</td> <td>0%</td> <td>S3KE-1750, S3KE-1800, S3KE-1850, S3KE-1900, S3KE-1950, S3KE-2000,</td> <td>S3KE-1500</td> <td></td> <td>ſ</td> <td>Completionc</td> <td>d Retainin;</td>	S3/KE-1200	Completion of Relaining Walls	0	0	-585	0		31-Jul-23		22-Dec-21	0%	S3KE-1750, S3KE-1800, S3KE-1850, S3KE-1900, S3KE-1950, S3KE-2000,	S3KE-1500		ſ	Completionc	d Retainin;
Bit: Column: Strange trange	S3KE-1250	Completion of Road and Drain	0	0		0		31-May-23A		22-Dec-21	100%	S3D RD-1600, S3D RD-1000, S3D RD-1800, S3D RD-1300, S3D RD-120020, S3D RD-135020		1 1 1 1 1			
And the set of t	S3KE-1300	Completion of Stormwater Storage Tank with Testing	0	0	-585	0		31-Jul-23		22-Dec-21	0%		S3KE-1500				d Stormwa
And	S3KE-1350	Completion of Sewage Storage Tank	0	0	-585	0		31-Jul-23		22-Dec-21	0%	S3D.SEW-1950,S3D.SEW-1250	S3KE-1500				d Sewage
International and anti-stand International anti-stand I	S3KE-1400	Completion of Underpass	0	0	-585	0		31-Jul-23		22-Dec-21	0%	S3D.UP-1150	S3KE-1500				d Underpa
SNE-500 Campleford Workinscand 0	S3KE-1450	Completion of Stope Upgrading Works	0	0	-632	0		15-Sep-23		22-Dec-21	0%	S3D.SL-1100,S3D.SL-2100, S3D.SL-2000,S3D.SL-1050-68,	S3KE-1500				
SNE-700 Conpleting Relating WaDAA 0 0 470 0 31420 1 210e-21 0* SDFW-0AA-MORE, SWE-500	S3KE-1500	Completion of Worksin Section 3	0	0	-511	0		15-Sep-23		22-Dec-21	0%	PW.C-1100,S3KE-1200, S3KE-1150,S3KE-1400, S3KE-1450,S3KE-1050,	PC.S3				
SXE-300 Completed PeternH 0 <td>S3KE-1750</td> <td>Completion of Retaining Wall DA-A</td> <td>0</td> <td>0</td> <td>-470</td> <td>0</td> <td></td> <td>31-Jul-23</td> <td></td> <td>22-Dec-21</td> <td>0%</td> <td>S3D.RW-DA-A-1100.85, S3D.RW-DA-A-1000.35, S3D.1RW-DA-A-1050.5,</td> <td>S3KE-1200</td> <td></td> <td></td> <td>Completion c</td> <td>d Retaininç</td>	S3KE-1750	Completion of Retaining Wall DA-A	0	0	-470	0		31-Jul-23		22-Dec-21	0%	S3D.RW-DA-A-1100.85, S3D.RW-DA-A-1000.35, S3D.1RW-DA-A-1050.5,	S3KE-1200			Completion c	d Retaininç
SNG-3100 Completind Fletizer O O O SNG-360 SDSD-260 SDSD-2	S3KE-3080	Completion of Platform H	0	0		0		31-May-23A		05-Apr-25	100%	S3D RD-2600		1 1 1 1			
SNRE-3150 Completion/Feature/Fea	S3KE-3090	Completion of Platform I	0	0		0		31-May-23A		05-Apr-25	100%	S3D RD-2400	S3KE-3290	1 1 1 1			
L L <thl< th=""> <thl< th=""> <thl< th=""></thl<></thl<></thl<>	S3KE-3100	Completion of Platform J	0	0		0		31-May-23A		05-Apr-25	100%	S3DRD-2450					
S3KE-320 Completiond Featred 0 0 506 0 31-bk-23 05 Apr-25 0% S3D SL-1150-66 For a free of the stand Featred S3KE-320 Completiond Featred 0 0 506 0 31-bk-23 05 Apr-25 0% S3D SL-1150-66 For a free of the stand Featred • Completion Featred • Completi	S3KE-3150	Completion of Feature F	0	0	488	0		19-Aug-23		05-Apr-25	0%	S3D.SL-2350, S3D.SF-1100		1			
S3KE-320 Completiond Feature K 0 0 506 0 31-U4-23 05-Apr-25 0% S3D.SF-220 Amount	S3KE-3170	Completion of Feature H	0	0	506	0		31-Jul-23		05-Apr-25	0%	S3.D.SL-1050-14				Completion c	d Feature I
S3KE-3210 Completion of FeatureI. 0 0 506 0 31-Jul-23 05-Apr-25 0% S3D.SE-2300 Image: Completion of FeatureI. 0 0 0 506 0 31-Jul-23 05-Apr-25 0% S3D.SE-2300 Image: Completion of FeatureI. 0 <td< td=""><td>S3KE-3190</td><td>Completion of Feature J</td><td>0</td><td>0</td><td>506</td><td>0</td><td></td><td>31-Jul-23</td><td></td><td>05-Apr-25</td><td>0%</td><td>S3D.SL-1150-56</td><td></td><td></td><td></td><td>Campletianc</td><td>d Feature.</td></td<>	S3KE-3190	Completion of Feature J	0	0	506	0		31-Jul-23		05-Apr-25	0%	S3D.SL-1150-56				Campletianc	d Feature.
S3KE-320 Completion of Feature Q1 0 0 506 0 31-Jul-23 05-Apr-25 0% S3D_SL-2430 Image: Completion of Feature Q1 0 0 0% Completion of Feature Q1 0 0% 0% 0% S3D_SL-2430 S3D_SL-2430 Image: Completion of Feature Q1 0% Completion of Feature Q1 0% 0% 0% S3D_SL-2430 Image: Completion of Feature Q1 0% Completion of Feature Q1 0% 0% 0% S3D_SL-2430 Image: Completion of Feature Q1 0% 0% 0% S3D_SL-2430 Image: Completion of Feature Q1 Image: Completion of Feature Q1 0% 0% 0% S3D_SL-2430 Image: Completion of Feature Q1 Image: Completion of Feature Q1 0% 0% 0% S3D_SL-2430 Image: Completion of Feature Q1 Image: Complet	S3KE-3200	Completion of Feature K	0	0	506	0		31-Jul-23		05-Apr-25	0%	S3D.SF-2250				Completion c	d Featurel
S3KE-3260 Completion of FeatureQ1 0 0 506 0 31-Jul-23 05-Apr-25 0% S3D_SF-3250 Completion of FeatureQ1	S3KE-3210	Completion of Feature L	0	0	506	0		31-Jul-23		05-Apr-25	0%	S3D.SF-2300				Completion c	d Feature
	S3/KE-3220	Completion of FeatureM	0	0	506	0		31-Jul-23		05-Apr-25	0%	S3D.SL-2430					d Feature
S3KE-3265 Completion of Feature Q2 0 0 506 0 31-Jul-23 05-Apr-25 0% S3D_SF-3250, S3D_RD-166020 Image: Completion of Feature Q2	S3/KE-3260	Completion of Feature Q1	0	0	506	0		31-Jul-23		05-Apr-25	0%	S3D.SF-3250				Completion	d Feature
	S3KE-3265	Completion of Feature Q2	0	0	506	0		31-Jul-23		05-Apr-25	0%	S3D.SF-3250, S3D RD-166020				Completionc	d Feature(



ND/2018/01						Site Fo	ormatior	n and Inf	rastructu	ire Work	s for Police Fac	ilities in Kong I	Nga Po					
Activity ID	AdivityName	OriginalDuration	Actual Duration	Total Float	TRA	Slart	Finish	LateStart	LateFinish	Activity% Camplete	Predecessors	Successors		July 2023			Augu	ust2023
										Gunpier			02 0	9 16	23	30 0	6 1	13 20 27
S3KE-3270	Completion of Feature R1	0	0	506	0		31-Jul-23		05-Apr-25	0%	S3D RD-166020				Т	Complet	ond Fea	tureR1
S3KE-3290	Completion of Feature T	0	0	506	0		31-Jul-23		05-Apr-25	0%	S3KE-3090				Ļ	🔶 Camplei	ond Fea	aure⊤
S3KE-3310	Completion of Feature R2	0	0	506	0		31-Jul-23		05-Apr-25	0%	S3D RD-166020, S3D RD-1000, S3D RD-115020					Complet	nd Fea	tureR2
Portion D		262	418	465	2	01-Mar-22A	15-Sep-23	02-Dec-21	05-Apr-25								+	<u> </u>
Platform F (+64.5mPD)		14	418	501	0	01-Mar-22A	04-Aug-23	01-Apr-25	05-Apr-25				1			04-	Aug 23,	Platform F (+64.5mPD
Road, Drainage and Utilitie	es	14	418	501	0	01-Mar-22A	04-Aug-23	01-Apr-25	05-Apr-25				·			1 04-	Aug 23,	Road, Drainage and Ut
Road L02		14	418	501	0	01-Mar-22A	04-Aug-23	01-Apr-25	05-Apr-25							1 04-	Aug 23,	RoadL02
CH250 - CH350		14	418	501	0	01-Mar-22A	04-Aug-23	01-Apr-25	05-Apr-25								Aug 23,	CH250-CH350
S3DRD-2360	L02-CH250-CH350Sewerage and Drainage	14	418	501	0	01-Mar-22A	04-Aug-23	01-Apr-25	05-Apr-25	64.29%	S3DRD-2300	S3D RD-2400	- - - -			 L02	- CI 125	0-CH350Seweragea
Platform B (+52.5mPD)		18	0	-488	0	31-Jul-23	19-Aug-23	02-Dec-21	22-Dec-21				:			(<u> </u>		19-Aug-23, P
Slope Upgrading Works		18	0	-488	0	31-Jul-23	19-Aug-23	02-Dec-21	22-Dec-21							(<u> </u>	-	19-Aug-23, S
Feature F		18	0	-488	0	31-Jul-23	19-Aug-23	02-Dec-21	22-Dec-21				1			<u></u>	-++	19-Aug-23, F
S3D.SL-2350	LandscapeTreatmentonSlope	18	0	-488		31-Jul-23	19-Aug-23	02-Dec-21	22-Dec-21	0%	S3D.SL-2230	S3KE-1450,S3KE-3150				-		LandscapeT
Platform A (+49.0mPD)		21	68	-511	2	09-May-23A	15-Sep-23	08-Dec-21	22-Dec-21								╞	
Slope Upgrading Works		21	68	-511	2	09-May-23A	15-Sep-23	08-Dec-21	22-Dec-21								╞	
S3D.SL-2420	Drainageworks and surface protection works for existing stopes - feature no 3NW -C/C 350[Feature M]	21	68	-511	2	09-May-23A	15-Sep-23	08-Dec-21	22-Dec-21	40%	S3D.SF-3100, S2C.SF-1305, S2CRDR-1600, S3D.RD-1600	S3KE-1450, S3D.SF-1900, S3D.SL-2430						
Portion D1		45	265	-485	6	05-Sep-22A	16-Aug-23	06-Dec-21	22-Dec-21				1				╞	16-Aug-23, Pontio
S3D1.SF-1000	Excavate 3NW-C/C439to+48.0mPD (11900cum)	25	260	-485	2	12-Sep-22A	16-Aug-23	06-Dec-21	22-Dec-21	40%	AD-P4, S3D.RW-DA-M-105020	S3KE-1150,S3D.SL-1100				-		Excavate 3NW-0
S3D1.SF-1050	Drainagefor 3NW-C/C366	45	265	-485	4	05-Sep-22A	16-Aug-23	06-Dec-21	22-Dec-21	66.67%	S3.SDR.FT-1200, S3.GM-2000, S3.D.RW-DA-M-1000.70, S3.D.1.RW-DA-M-10505	S3KE-1150	1 1 1 1 1					Drainagefor 3N
Section 4 (Preservation	on and Protection of Existing Tr	1248	1342	-399	0	27-Nov-19A	05-Apr-24	30-Sep-21	03-Mar-23									
S4-1000	Preservation and Protection of Existing Trees other than Establishment Works	1248	1342	-399	0	27-Nov-19A	05-Apr-24	30-Sep-21	03-Mar-23	79.97%	SD, PC.S3, PC.S1, PC.S2							

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Aug-23, Platform B	(+524	mPD)										
∖ug-23, Plaionn B ∖ug-23, SlopeUpg	· ·											
Aug-23, Seature F	, <u>1</u> 9											
iscapeTreatment (onSlop	 e										
				: : :								
	_		5-Sep-23, Platfo	- m A(+49.0r	nPD)							
	_		5-Sep-23, Slope									
			rainageworks			arksfore	existing slo	pes-fe	atureno3N	w-c/c	350[Featu	eMj
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efor 3NW-C/C36	6			1								
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PROJECT ^{項目}

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

CONTRACT TITLE

SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO

CLIENT _{業主}



🗲 土木工程拓展署 CEDD CEDD Civil Engineering and Development Department

CONSULTANT 工程顧問公司

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SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION



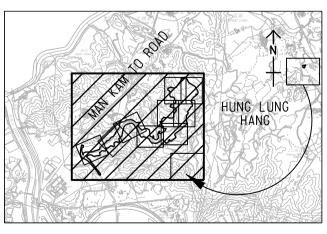
STATUS _{階段}

SCALE 比例

DIMENSION UNIT _{尺寸單位}

A1 1 : 2500

KEY PLAN A1 1 : 50000 _{索引圖}



PROJECT NO. ^{項目編號}

CONTRACT NO. _{合約編號}

60534575

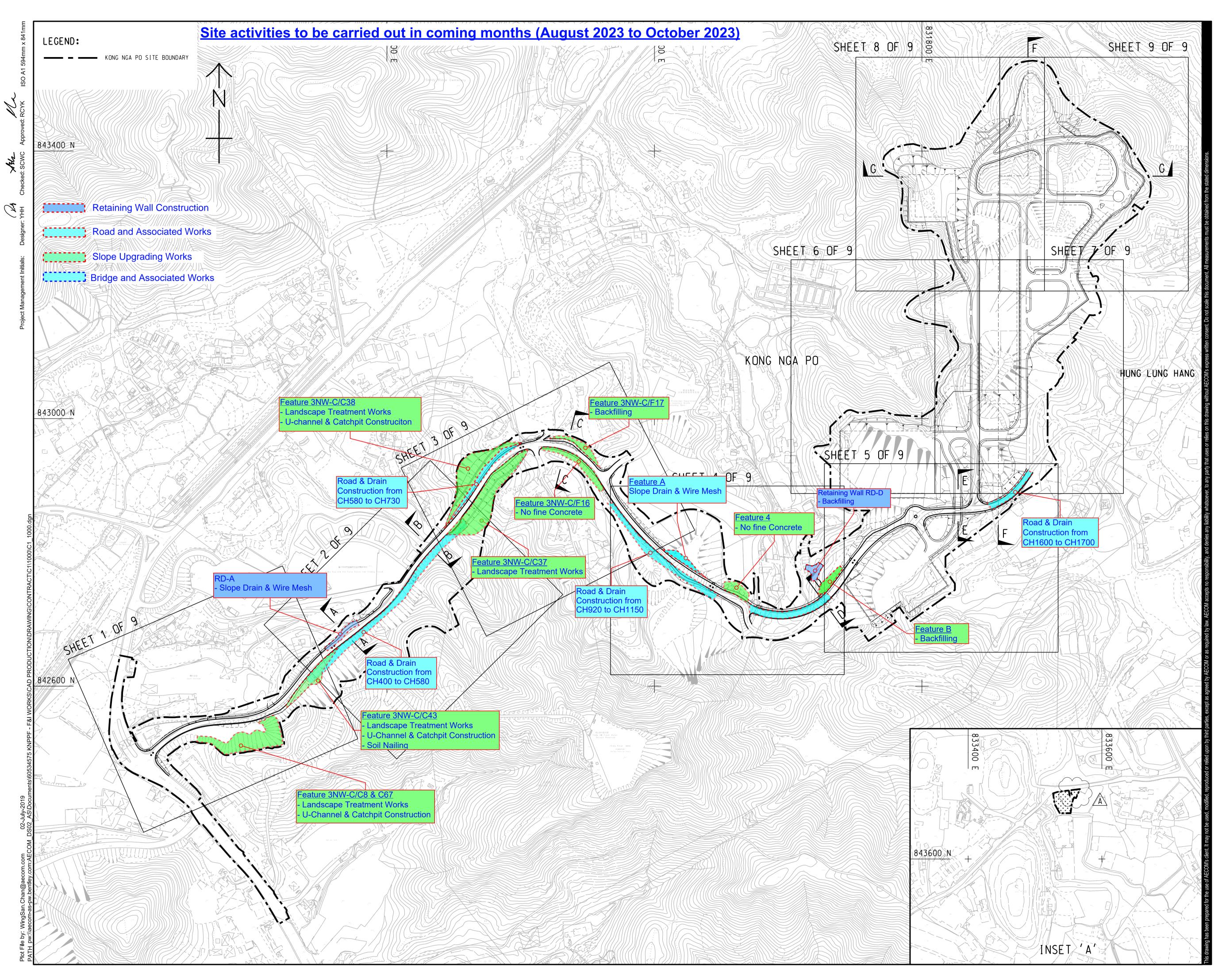
ND/2018/01

SHEET TITLE 圖紙名稱

KEY PLAN AND LOCATION PLAN

SHEET NUMBER 圖紙編號

60534575/C1/1000A





PROJECT ^{項目}

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

CONTRACT TITLE

SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO

CLIENT _{業主}



🗲 土木工程拓展署 CEDD CEDD Civil Engineering and Development Department

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ISSUE/REVISION

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			k.
А	JUL. 19	TENDER ADDENDUM NO.1	SCWC
-	JUN. 19	TENDER DRAWING	scwc
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
			<u> </u>

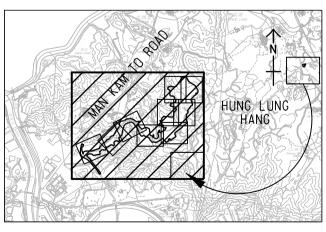
STATUS _{階段}

SCALE 比例

DIMENSION UNIT ^{尺寸單位}

A1 1 : 2500

KEY PLAN A1 1 : 50000 ^{索引圖}



PROJECT NO. ^{項目編號}

CONTRACT NO. _{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

Environmental Permit No. EP-510/2016 Police Facilities in Kong Nga Po Proactive Environmental Protection Proforma

Ref*	Proposed Construction	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
	Method**		-	
EIA 3.91;	Slope	Kong Nga Po Road	Dust impact from	• Three side enclosure with top shelter for cement mixing works
EM&A Log 2.2	Upgrading		soil nail works	Water spraying on soil nailing works
	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;			Water	• Deploy desilting/sedimentation devices for wastewater treatment prior to
EM&A Log 4.2				discharge
				• Establish soil berm with retention pit to control water outflow
EIA 4.4.6;			Noise	Regular inspection and maintenance of plant and equipment in good condition
EM&A Log 3.2				• Provide noise barriers for soil nailing works where near the sensitive receiver
EIA 10.11,			Ecology Concern	Provide training to frontline workers for the conservative species
EM&A Log 9.4				Provision of protective fence for the conservative species
				Regular inspection for concerned vegetation
EIA Table 10.11			Landscape and visual	Properly fenced off the conservative species
EM&A Table			impact	• Preservation of existing trees will be undertaken in accordance with DEVB
9.1				TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management
				Arrangement

Environmental Permit No. EP-510/2016 Police Facilities in Kong Nga Po Proactive Environmental Protection Proforma

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
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	 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	 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	• Enclose the noisy part of machineries with noise isolating mats during hard surface breaking

Environmental Permit No. EP-510/2016 Police Facilities in Kong Nga Po Proactive Environmental Protection Proforma

Ref: PEPP_2010_2012 Working Period: August 2023 to October 2023

Ref*	Proposed Construction Method**	Location/Working Period	Anticipated Major Impacts	Recommended Mitigation Measures
EIA 4.4.6;	(Cont')	(Cont')	Working in	Valid construction noise permit should be obtained and displayed on site
EM&A Log 3.2	Road and	Kong Nga Po Main	Restricted Hours	• In case of non-compliance with the construction noise criteria, more frequent
	Associated	Site		monitoring and action should be carried out
EIA 7.5.1.4;	Works	Kong Nga Po Road	Chemical Waste	Drip tray and chemical spillage kit shall be provided on site
EM&A Log 6.2				
EIA Table 10.11			Landscape and visual	Properly fenced off the conservative species
EM&A Table	18 s		impact	• Properly implement temporary traffic arrangement which control construction
9.1				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 LTU		2 Aug-2023
Endorsed by Supervisor's Representative	Andy Chery	Cleen	2 Aug 2023
Reviewed by Environmental Team Leader	Ivy Tam	Trytam	4 August 2023
Approved by Independent Environmental Checker	Tandy Tse	fully	4 August 2023

APPENDIX B ACTION AND LIMIT LEVELS

Appendix B - Action and Limit Levels

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

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

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 CERTIFCATES

WELLAB LIMITED Room 1714, Technology Park 18 On Lai Street, Shatin New Territories, Hong Kong Tel: 2898 7388 Fax: 2898 7076 Website : www.wellab.com.hk

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TEST REPORT

Certificate of Calibration

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

Test Report No.:	38570A
Date of Issue:	2023-07-10
Date Received:	2023-07-08
Date Tested:	2023-07-08
Date Completed:	2023-07-10
Next Due Date:	2023-09-09
Page:	1 of 1

ATTN:

Ms. Meiling Tang

Item for Calibration:	
Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23808
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-02
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)	1.180
en e	

PATRICK TSE General Manager

Dust Meter	Dust Meter	High Volume Sampler		
Equipment No.:	WA-01-02	WA-12-09		
Model No. :	AEROCET-831	TE-5170		
Serial No.	X23808	2203		
Calibration Date:	8-Jul-23 8-Jul-23			
Location:	Wellab Office (Calibration Room)			

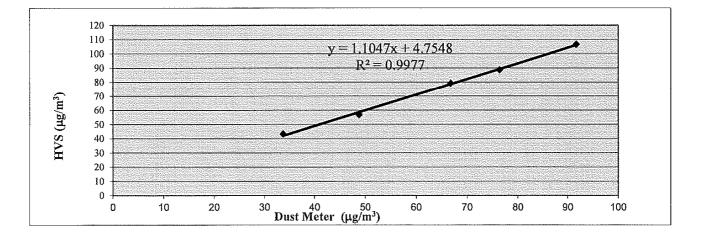
	Calibratic	n of 1 hr TSP			
	Dust Meter	H	VS		
Calibration Point	Mass Concentration (µg/m ³)	Mass concent	ration (μg/m ³)		
	X-axis	Y	axis		
1	34	4	3		
2	49		57		
3	67		79		
4	76		89		
5	92	1	107		
Average	63.5	74	4.9		
By Linear Regression o	of Y on X				
Slope, mw =	1.1047	Intercept, bw = 4.7	548		
Correlation coefficie	nt* = 0.9989				

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Fi	ictor
Particaulate Concentration by High Volume Sampler (µg/m ³)	74.9
Particaulate Concentration by Dust Meter (µg/m ³)	63.5
Measureing time, (min)	60

Set Correlation Factor, SCF

SCF = [K=High Volume Sampler / Dust Meter, $(\mu g/m^3)$]



QC Reviewer:	LED a	10N 1	412	Signature:	hei	Date:	8/7/23



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

.		
Test Report No.:	38469	
Date of Issue:	2023-06-26	
Date Received:	2023-06-23	
Date Tested:	2023-06-23	
Date Completed:	2023-06-26	
Next Due Date:	2023-08-25	
Page:	1 of 1	

ATTN: Ms. Meiling Tang

Certificate of Calibration

TEST REPORT

: Dust Monitor
: Met One Instruments
: AEROCET-831
: X24476
: 0.1 cfm
: 0 count per 1 minute
: WA-01-05
: 17-22 degree Celsius
: 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.

Kesults:	
Correlation Factor (CF)	1.145
****	*****

Thile

PATRICK TSE General Manager

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-05	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24476	2203
Calibration Date:	23-Jun-23	23-Jun-23
Location:	Wellab Office (Calibration Room)

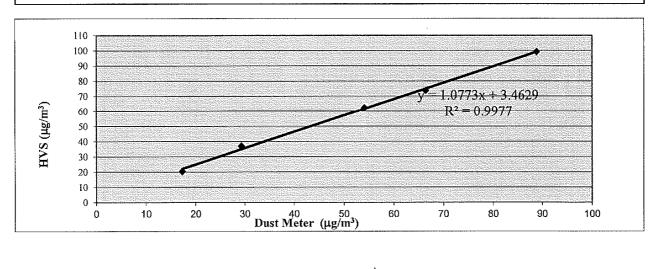
	Cal	ibration of 1 hr TSP	
	Dust Meter		HVS
Calibration Point	Mass Concentration (µ	lg/m ³)	Mass concentration (µg/m ³)
	X-axis		Y-axis
1	17		20
2	29		37
3	54		62
4	66		74
5	89		99
Average	51.2		58.6
By Linear Regression of	of Y on X		
Slope , mw =	1.0773	Intercept, bw =	3.4629
Correlation coefficie	nt* = 0.998	38	

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m ³)	58.6
Particaulate Concentration by Dust Meter (µg/m ³)	51.2
Measureing time, (min)	60

Set Correlation Factor , SCF SCF = [K=High Volume Sampler / Dust Meter, (µg/m³)]

1.145



QC Reviewer: 122 MAN 172 Signature: her Date: 24/6/21

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

Test Report No.:	38469A
Date of Issue:	2023-06-26
Date Received:	2023-06-23
Date Tested:	2023-06-23
Date Completed:	2023-06-26
Next Due Date:	2023-08-25
Page:	1 of 1

ATTN:

Ms. Meiling Tang

Item for Calibration:	
	Deart Mary's a
Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24477
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-06
Test Conditions:	
Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Certificate of Calibration

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.

Correlation Factor (CF)	1.129
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PATRICK TSE General Manager

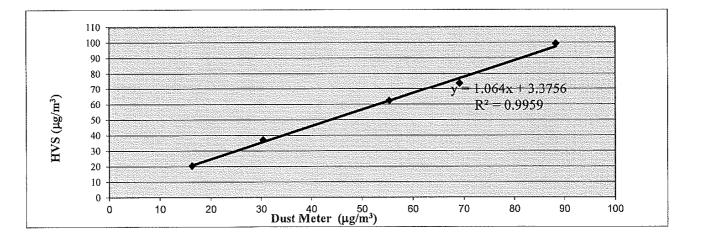
Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-06	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24477	2203
Calibration Date:	23-Jun-23	23-Jun-23
Location:	Wellab Office (Calibration Room)

	Calibratio	1 of 1 hr TSP	
	Dust Meter		HVS
Calibration Point	Mass Concentration (µg/m ³)]	Mass concentration ($\mu g/m^3$)
	X-axis		Y-axis
1	16		20
2	30		37
3	55		62
4	69		74
5	88		99
Average	51.9		58.6
By Linear Regression of Slope , mw = Correlation coefficie	1.0640	Intercept, bw =	3.3756

*If Correlation Coefficient < 0.90, check and recalibrate.

Particaulate Concentration by High Volume Sampler (µg/m ³)	58.6	
Particaulate Concentration by Dust Meter (µg/m ³)	51.9	
Measureing time, (min)	60	

SCF = [K=High Volume Sampler / Dust Meter, ($\mu g/m^3$)]



QC Reviewer:	Lbh	MAN	HIN	Signature:	he	Date:	24/6/23
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TEST REPORT

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

Test Report No.:	38174D
Date of Issue:	2023-05-08
Date Received:	2023-05-05
Date Tested:	2023-05-05
Date Completed:	2023-05-08
Next Due Date:	2023-07-07
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.	: X24475
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-07
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.

Kesults:	
Correlation Factor (CF)	1.144

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

PATRICK TSE General Manager

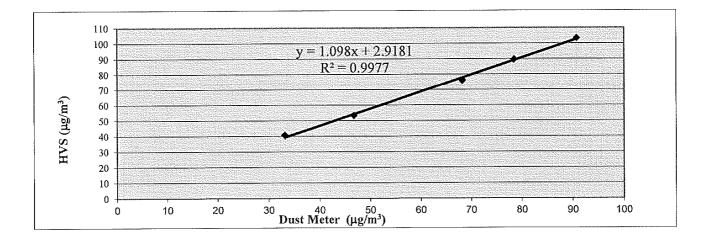
Dust Meter	Dust Meter	High Volume Sampler	
Equipment No.:	WA-01-07	WA-12-09	
Model No. :	AEROCET-831	TE-5170	
Serial No.	X24475	2203	
Calibration Date:	5-May-23	5-May-23	
Location:	Wellab Office (Calibration Room)		

	Calibratio	n of 1 hr TSP	
	Dust Meter		HVS
Calibration Point	Mass Concentration (µg/m ³)	Mas	ss concentration ($\mu g/m^3$)
	X-axis		Y-axis
1	33		41
2	47		53
3	68		76
4	79	· · · · · · · · · · · · · · · · · · ·	90
5	91		103
Average	63.5		72.7
By Linear Regression Slope, mw =	of Y on X 1.0980	Intercept, bw =	2.9181
Correlation coeffici			anization des Agentenines e est

*If Correlation Coefficient < 0.90, check and recalibrate.

Particaulate Concentration by High Volume Sampler (µg/m ³)	72.7
Particaulate Concentration by Dust Meter (µg/m ³)	63.5
Measureing time, (min)	60

SCF = [K=High Volume Sampler / Dust Meter, $(\mu g/m^3)$]



QC Reviewer:	172	MON	HEN	_Signature:	hi	Date:	\$ (\$ / 2022
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TEST REPORT APPLICANT: Wellab Limited (EM&A Department) Room 1808, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

-	
Test Report No.:	38570D
Date of Issue:	2023-07-10
Date Received:	2023-07-08
Date Tested:	2023-07-08
Date Completed:	2023-07-10
Next Due Date:	2023-09-09
Page:	1 of 1

ATTN: Ms. Meiling Tang

5 5

Item for Calibration:	
Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24475
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-07
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.

Certificate of Calibration

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)	1.106
******	****

P^IATRICK TSE General Manager

Dust Meter	Dust Meter	High Volume Sampler	
Equipment No.:	WA-01-07	WA-12-09	
Model No. :	AEROCET-831	TE-5170	
Serial No.	X24475	2203	
Calibration Date:	8-Jul-23	8-Jul-23	
Location:	Wellab Office (Calibration Room)		

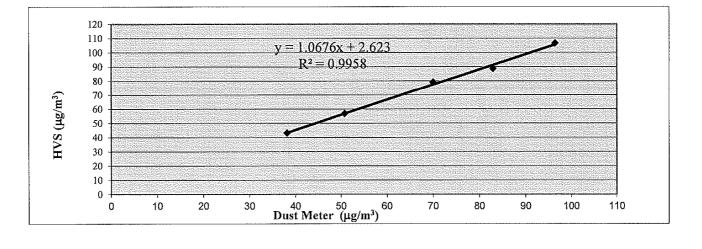
	Calibratio	n of 1 hr TSP
	Dust Meter	HVS
Calibration Point	Mass Concentration (µg/m ³)	Mass concentration (µg/m ³)
	X-axis	Y-axis
1	38	43
2	51	57
3	70	79
4	83	89
5	96	107
Average	67.7	74.9
By Linear Regression of Slope , mw = Correlation coefficie	1.0676	Intercept, bw = 2.6230

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m ³)	74.9
Particaulate Concentration by Dust Meter (µg/m ³)	67.7
Measureing time, (min)	60

Set Correlation Factor, SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m³)]



QC Reviewer:	LEE MAN	HEL	Signature:	hei	Date:	817/23
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TEST REPORT APPLICANT: Wellab Limited (EM&A Department) Room 1808, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	38469B
Date of Issue:	2023-06-26
Date Received:	2023-06-23
Date Tested:	2023-06-23
Date Completed:	2023-06-26
Next Due Date:	2023-08-25
Page:	1 of 1

ATTN:

Ms. Meiling Tang

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%

Certificate of Calibration

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)	1.184	

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

PATRICK TSE General Manager

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:	23-Jun-23	23-Jun-23			
Location:	Wellab Office (Calibration Room)				

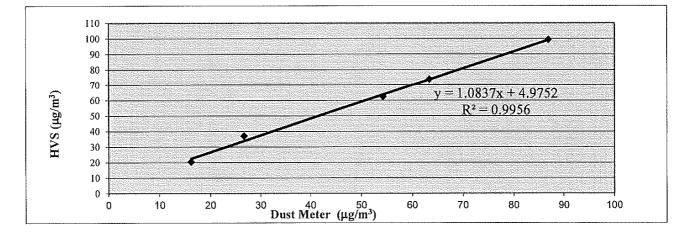
	Calibra	ation of 1 hr TSP			
	Dust Meter		HVS		
Calibration Point	Mass Concentration (µg/m	1 ³) N	Mass concentration (μ g/m ³)		
	X-axis		Y-axis		
1	16		20		
2	27		37		
3	54		62		
4	63		74		
5	87		99		
Average	49.5		58.6		
By Linear Regression o Slope , mw = Correlation coefficie	1.0837	Intercept, bw =	4.9752		

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	50.4
Particaulate Concentration by High Volume Sampler (µg/m ³)	58.6
Particaulate Concentration by Dust Meter (µg/m ³)	49.5
Measureing time, (min)	60

Set Correlation Factor, SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m³)]



QC Reviewer:	Lbb	MON	472	_Signature:	hei	Date:	24 16/23
	W						

WELLAB LIMITED Room 1714, Technology Park 18 On Lai Street, Shatin New Territories, Hong Kong Tel: 2898 7388 Fax: 2898 7076 Website : www.wellab.com.hk

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TEST REPORT

Certificate of Calibration

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

▲	
Test Report No.:	38469C
Date of Issue:	2023-06-26
Date Received:	2023-06-23
Date Tested:	2023-06-23
Date Completed:	2023-06-26
Next Due Date:	2023-08-25
Page:	1 of 1

ATTN:

Ms. Meiling Tang

Item for Calibration:	
Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23811
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-09
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)	1.136
*****	*****

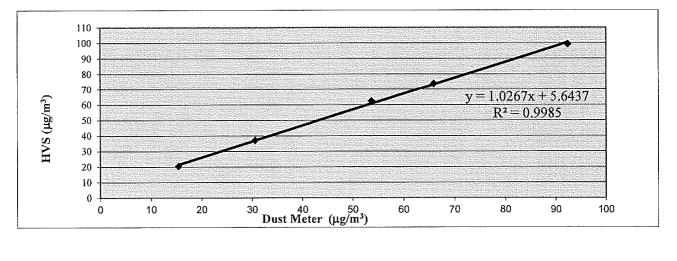
PATRICK TSE Laboratory Manager

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-09	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23811	2203
Calibration Date:	23-Jun-23	23-Jun-23
Location:	Wellab Office (Calibration Room)	

	Calibration	1 of 1 hr TSP	
	Dust Meter		HVS
Calibration Point	Mass Concentration (µg/m ³)	M	lass concentration (μg/m ³)
	X-axis		Y-axis
1	15 、		20
2	31		37
3	54		62
4	66		74
5	92		99
Average	51.6		58.6
By Linear Regression of Slope , mw =	of Y on X 1.0267	Intercept, bw =	5.6437
Correlation coefficie	nt* = 0.9993	• • • ••••	<u>Autoria da da de la companya de la compa</u>

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Fac		
Particaulate Concentration by High Volume Sampler (µg/m ³)	58.6	
Particaulate Concentration by Dust Meter (µg/m ³)	51.6	
Measureing time, (min)	60	
Set Correlation Factor , SCF SCF = [K=High Volume Sampler / Dust Meter, (μg/m³)]	1.136	



QUERTIEWER Date.	Reviewer:	LBF MAN 45	\mathcal{V} Signature:	ht	Date:	24 / 0123
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WELLAB LIMITED Room 1714, Technology Park 18 On Lai Street, Shatin New Territories, Hong Kong Tel: 2898 7388 Fax: 2898 7076 Website : www.wellab.com.hk

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TEST REPORT

Certificate of Calibration

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

A.	
Test Report No.:	38469D
Date of Issue:	2023-06-26
Date Received:	2023-06-23
Date Tested:	2023-06-23
Date Completed:	2023-06-26
Next Due Date:	2023-08-25
Page:	1 of 1

ATTN:

Ms. Meiling Tang

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)	1.214	

P^IATRICK TSE General Manager

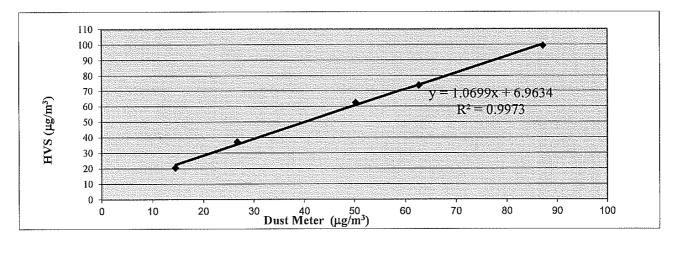
<u>TSP - Total Suspended Particulates (1 hr Dust Meter)</u> <u>Calibration Report</u>

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:	23-Jun-23	23-Jun-23			
Location:	Wellab Office (Calibration Room)				

	Calibration	of 1 hr TSP	
	Dust Meter	HVS	
Calibration Point	Mass Concentration (µg/m ³)	Mass concentration (μg/m ³)	
	X-axis	Y-axis	
1	15	20	
2	27	37	
3	50	62	
4	63 74		
5	87 99		
Average	48.3	58.6	
By Linear Regression Slope , mw = Correlation coefficie	1.0699	Intercept, bw = <u>6.9634</u>	

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation E	actor		
Particaulate Concentration by High Volume Sampler (µg/m ³)	58.6		
Particaulate Concentration by Dust Meter ($\mu g/m^3$)	48.3		
Measureing time, (min)	60		
Set Correlation Factor , SCF SCF = [K=High Volume Sampler / Dust Meter, (µg/m³)]	1.214		



QC Reviewer:	Lbh	Man	472	Signature:	he	Date:	24 16/23
-							

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High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

						File No.	Cal./230505
Equipment No.:	WA-1	2-09		Serial No.	2203		
Model No.	TE-5	170		Cal. Date:	5-May-23		
Operator:	or: <u>HL</u>						
			Ambient Co	ndition			
Temperatu	ure, Ta (K)	294.3	Pressure, Pa	ı (mmHg)		761.2	
		·····			· · · · · · · · · · · · · · · · · · ·		
			e Transfer Stand		on		<u>e av pos de Bos</u>
	<u>1 No.</u>	0993	Slope, mc	0.0574	Intercept,		-0.04292
Last Calibr		16-Jan-23			bc = [∆H x (Pa/760		
Next Calibr	ation Date:	16-Jan-24		Qstd = $\{ \Delta H \}$	x (Pa/760) x (298/	$[a]^{1/2} - bc\} / n$	10
	li Elfandjo ata oligijo a lijito.	• Ali ata Angela (ng Talan) at at <u>a dan b</u>	0 III - 4 - 6700		a a constant	a dana a ba	
			Calibration of TS	SP Sampler		0,000	
Calibration	ΔH (orifice),	Orfice		Qstd (CFM)	ΔW (HVS), in. of	HVS	760) x (298/Ta)] ^{1/2}
Point	in. of water	[ΔH x (Pa/760) x	(298/Ta)] ^{1/2}	X - axis	water		Y-axis
1	11.9	3.47		61.23	7.5		2.76
2	9.4	3.09		54.50	6.0		2.47
3	8.6	2.95		52.16	5.7		2.40
4	5.7	2.40		42.60	3.6		1.91
5	3.6	1.91		34.01	2.5		1.59
By Linear Reg Slope , mw = Correlation c	ression of Y on X 	0.9981		Intercept, bw = -	0.0881		
*If Correlation (Coefficient < 0.990	, check and recalibrate.					
			Set Point Calo	culation	janjala at see		
From the TSP F	ield Calibration Cu	rve, take Qstd = 43 CFI	M				
From the Regres	ssion Equation, the	"Y" value according to					
		www.w.Oot	$d + bw = [\Delta W \times (I)]$	D., /7(0) (200)	nn - >1 ^{1/2}		
		mw x Qste	$\mathbf{a} + \mathbf{b}\mathbf{w} = [\Delta \mathbf{w} \mathbf{x}]$	Pa//60) X (298/			
Therefor	re, Set Point; W = ($(mw x Qstd + bw)^2 x ($	760 / Pa) x (Ta /	298)=	3.82		
D 1							
Remarks:				······			
Conducted by:	Lik Man	112.77	Signature:	ha		Date:	5/5/2023
Checked by:			Signature:	(Date:	5(5/25

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High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

						File No.	Cal./230623
Equipment No.:	WA-12	-09		Serial No.	2203		
/Iodel No.	TE-51	70	Cal. Date:		23-Jun-2	3	
Operator:	HL						
		······································	Ambient Condition				
Temperatu	re, Ta (K)	293.3	Pressure, Pa	a (mmHg)		757	
	e de planar an an an an	Orific	e Transfer Stand	lard Informati		· · · · · · · · · · · · · · · · · · ·	
Serial		0993	Slope, mc	0.0574	Intercept,		-0.04292
Last Calibra		16-Jan-23			$bc = [\Delta H \times (Pa/760)]$		
Next Calibr	ation Date:	16-Jan-24		Qstd = $\{[\Delta H]$	x (Pa/760) x (298/1	[a)] ¹¹² -bc} / n	nc
i in standige National	•		Calibration of T	SP Sampler	n 1990 - Cherry		
		Orfice				HVS	<u></u>
Calibration Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x	(298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		760) x (298/Ta)] ^{1/} Y-axis
1	12.0	3.48		61.42	7.8		2.81
2	9.4	3.08	· · · · ·	54.44	6.2		2.50
3	8.8	2.98		52.70	5.7		2.40
4	5.6	2,38		42.19	3.9		1.99
5	3.7	1.94		34.44	2.7		1.65
Slope , mw = Correlation c		0.9995 , check and recalibrate.		Intercept, bw = 	0.1868		
	el eta de treta la		Set Point Cal	aulation		· · · · · · · · · · · · · · · · · · ·	
	·····		Set Follit Cal	CURTION	<u> </u>	-	
rom the TSP Fi	ield Calibration Cu	rve, take Ostd = 43 CFN	M				
		rve, take Qstd = 43 CFN "Y" value according to	М				
		"Y" value according to			1/2		
		"Y" value according to	√l I + bw = [ΔW x ((Pa/760) x (298/	Ta)] ^{1/2}		
rom the Regres	ssion Equation, the	"Y" value according to	I + bw = [ΔW x (Ta)] ^{1/2} 4.01		
rom the Regres	ssion Equation, the	"Y" value according to mw x Qsto	I + bw = [ΔW x (
rom the Regres	ssion Equation, the	"Y" value according to mw x Qsto	I + bw = [ΔW x (
rom the Regres	ssion Equation, the	"Y" value according to mw x Qsto	I + bw = [ΔW x (
rom the Regres	ssion Equation, the	"Y" value according to mw x Qsto	I + bw = [ΔW x (
rom the Regres	ssion Equation, the	"Y" value according to mw x Qsto	I + bw = [ΔW x (
rom the Regres	ssion Equation, the	"Y" value according to mw x Qstd mw x Qstd + bw) ² x (I + bw = [ΔW x (4.01	Date:	23/6/202

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High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

			~			File No.	Cal./230708
Equipment No.:	WA-12	2-09		Serial No.	2203		
Model No.	TE-51	170	Cal. Date: 8-Jul-23				
Operator:	: HL						
····	· · · · · · · · · · · · · · · · · · ·		Ambient Co	ondition			
Temperature, Ta (K) 294 Pressure, Pa (mmHg)							
		Orific	e Transfer Stan	dard Informati	on		
Serial	Serial No. 0993		Slope, mc	0.0574	Intercept,	bc	-0.04292
Last Calibra		16-Jan-23			$bc = [\Delta H \times (Pa/76)]$		
Next Calibr		16-Jan-24			x (Pa/760) x (298/		
- 111, 11 			Calibration of I	SP Sampler	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · ·	
Calibration	L	Orfice		10.11		HVS	(T(0)) (200 (m) 1/2
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x	(298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[∆W x (P	a/760) x (298/Ta)] ^{1/2} Y-axis
1	12.0	3.49		61.48	8.0		2.85
2	9,8	3.15		55.63	6.5		2.57
3	8.3	2.90		51.25	5.7		2.40
4	5.7	2.40		42.60	4.0		2.01
5	3.6	1.91		34.01	2.4		1.56
Slope , mw = Correlation c	oefficient* =	0.9988 , check and recalibrate.		Intercept, bw	.0.0111	L	-
a tra			Set Point Ca	Joulation			
From the TSP F	ield Calibration Cu	urve, take Qstd = 43 CF					· · · · · · · · · · · · · · · · · · ·
		"Y" value according to					
From the Regres	saion Equation, the						
		mw x Qst	$\mathbf{d} + \mathbf{b}\mathbf{w} = [\Delta \mathbf{W} \mathbf{x}]$	(Pa/760) x (298	/Ta)] ^{1/2}		
Therefor	ve. Set Point: $W = t$	$(mw x Qstd + bw)^2 x ($	760 / Pa \ v (To	(298) =	3.95		
Therefor	10, 300 for 0000, W = 0		/00/14/2(14	.7 290)			-
Remarks:							
x vinui NJi	· · ·						
Conducted by:	LEG MON	Mer	Signature:		er -	Date:	8/7/2023
Checked by:	Lo ca	alle	Signature:		<u></u>	Date:	-0(1 B)



RECALIBRATION DUE DATE:

January 16, 2024

Certificate of Calibration

Cal Data	lanuary 10	2022	Boote	meter S/N:	/38320	Tav	293	°K
Cal. Date:	January 16	, 2023	ROOLS	aneter 5/14. 450520		Pa: 749.0		
Operator:	Jim Tisch					Pa:	749.0	mm Hg
Calibration	Model #:	TE-5025A	Calil	brator S/N:	0993			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔH]
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(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	4
	5	9	10	1	0.6950	12.8	8.00	
				Data Tabula	tion]
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Psto}\right)}$)(<u>Tstd</u>)		Qa	$\sqrt{\Delta H (Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	cis)	Va	(x-axis)	(y-axis)	
	0.9981	0.7201	1.41	59	0.9957	0.7184	0.8845	
	0.9938	1.0059	2.00		0.9915	1.0035	1.2509	4
	0.9917	1.1257	2.23		0.9893	1.1230	1.3985	-
	0.9906		2.34		0.9883	1.1751	1.4668	
	0.9853	1.4177	2.83		0.9829	1.4143	1.7690	
		<u>m=</u>	2.028		~		1.27041	
	QSTD	b=	-0.04		QA	b=	-0.02681	4
		<u> r=</u>	0.999	998		r=	0.99998]
				Calculatio	ACCURENT ACCURENCE ACCUREN			
	Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/T	a)	Va= ΔVol((Pa-ΔP)/Pa)			
	Qstd=	Vstd/∆Time			Qa= Va/ΔTime			
			For subsequ	uent flow ra	te calculatio	ns:		
	Qstd=	1/m((√∆H	Pa <u>Tstd</u> Pstd Ta	-))-b)	Qa=	1/m ((√∆ł	l(Ta/Pa))-b)	
		d Conditions						
Tstd						RECA	LIBRATION	
Pstd		mm Hg			US FPA rec	ommends a	nnual recalibrati	on per 199
		Key ter reading (in H2O)				Regulations Part	
		eter reading (Neter reading					, Reference Metl	
		perature (°K					ended Particulat	
		pressure (mm					ere, 9.2.17, page	
b: intercept				1	un un	e Autospin	,, hage	50
m: slope				1	havevar			a

Tisch Environmental, Inc. 145 South Miami Avenue

Village of Cleves, OH 45002

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009

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WELLAB LIMITED Room 1714, Technology Park 18 On Lai Street, Shatin New Territories, Hong Kong Tel: 2898 7388 Fax: 2898 7076 Website : www.wellab.com.hk

	TEST REPOR	Т
APPLICANT:	Wellab Limited	[]
	(EM&A Department)	Ι
	Room 1808, Technology Park,	I I
	18 On Lai Street,	I
	Shatin, NT, Hong Kong	I
		1

Test Report No.:	37893B
Date of Issue:	2023-03-06
Date Received:	2023-03-03
Date Tested:	2023-03-03
Date Completed:	2023-03-06
Next Due Date:	2024-03-05
Page:	1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No. : Sound Level Meter : BSWA : BSWA 308 : 580005 : WN-01-03

Test conditions:

Room Temperature Relative Humidity : 17-22 degree Celsius : 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.

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WELLAB LIMITED Room 1714, Technology Park 18 On Lai Street, Shatin New Territories, Hong Kong Tel: 2898 7388 Fax: 2898 7076 Website : www.wellab.com.hk

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

Test Report No.:	37893C
Date of Issue:	2023-03-06
Date Received:	2023-03-03
Date Tested:	2023-03-03
Date Completed:	2023-03-06
Next Due Date:	2024-03-05
Page:	1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

: BSWA : BSWA 308

: 580006 : WN-01-04

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No.

Test conditions:

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

: Sound Level Meter

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.

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TEST REPORTAPPLICANT:Wellab LimitedT(EM&A Department)DRoom 1808, Technology Park,D18 On Lai Street,DShatin, NT, Hong KongD

<u> </u>	
Test Report No.:	37894
Date of Issue:	2023-03-13
Date Received:	2023-03-10
Date Tested:	2023-03-10
Date Completed:	2023-03-13
Next Due Date:	2024-03-12
Page:	1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No.

: BSWA : BSWA 308 : 580011 : WN-01-08

: Sound Level Meter

Test conditions:

Room Temperature Relative Humidity : 17-22 degree Celsius : 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.

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an an anna air an ann achairte ann ach a' a' gun thairte an thairte ann an thairte an thairte ann an Airt de		 anaan ahaa dahaa dahaa ahaa ahaa ahaa ah	

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

Test Report No.:	37894A
Date of Issue:	2023-03-13
Date Received:	2023-03-10
Date Tested:	2023-03-10
Date Completed:	2023-03-13
Next Due Date:	2024-03-12
Page:	1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No.

: BSWA : BSWA 308 : 580013 : WN-01-09

: Sound Level Meter

Test conditions:

Room Temperature Relative Humidity : 17-22 degree Celsius : 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

18



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

Test Report No.:	37894B
Date of Issue:	2023-03-13
Date Received:	2023-03-10
Date Tested:	2023-03-10
Date Completed:	2023-03-13
Next Due Date:	2024-03-12
Page:	1 of 1

Page:

1 01 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No.

: Sound Level Meter : BSWA : BSWA 308 : 580017 : WN-01-10

Test conditions:

Room Temperature Relative Humidity

: 17-22 degree Celsius : 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

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TEST REPORTAPPLICANT:Wellab Limited
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Test Report No.:	37018
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

Ms. Meiling Tang

Certificate of Calibration

Item for Calibration:

Description Manufacturer Model No. Serial No. Equipment No. : Acoustical Calibrator : Brüel & Kjær : 4231 : 2412367 : N-02-03

Test Conditions:

Room Temperatre Relative Humidity : 17-22 degree Celsius : 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	$94.0 \pm 0.1 \mathrm{dB}$
At 114 dB SPL	114.0	114.0 ± 0.1 dB

Remark: This report supersedes the one dated 2019-08-20 with certificate number 31951.

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

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

Test conditions:

Room Temperature Relative Humidity : 17-22 degree Celsius : 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

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TEST REPORTAPPLICANT:Wellab Limited
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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 Manufacturer Model No. Serial No. Equipment No. : Acoustical Calibrator : SVANTEK : SV30A : 24791 : N-09-04

Test conditions:

Room Temperatre Relative Humidity : 17-22 degree Celsius : 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	$114.0 \pm 0.1 \text{ dB}$

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

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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

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Ms. Meiling Tang ATTN:

Certificate of Calibration

Item for calibration:

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

Test conditions:

Room Temperature Relative Humidity

: 17-22 degree Celsius : 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	$94.0 \pm 0.1 \text{ dB}$
At 114 dB SPL	114.0	114.0 ± 0.1 dB

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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 and Noise Monitoring Schedule (July 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
· · · · · · · · · · · · · · · · · · ·						1-Jul
2-Ju	I 3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul
2-JU	J 3-JUI	4-Jul	3-Jui	0-Jul	/-Jul	8-Jui
	1 hr TSP X3			1 hr TSP X3	1 hr TSP X3	
	<u>1 hr TSP X3</u> AM1			1 hr TSP X3 AM2	<u>1 hr TSP X3</u> AM1	
	<u>Noise</u> NM1 to NM7, NM10			NM8 to NM9,		
				NM11 to NM14		
9-Ju	l 10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul
			<u>1 hr TSP X3</u> AM2	<u>1 hr TSP X3</u> AM1		
			AMZ	AMI		
			Noise	Noise		
			<u>Noise</u> NM8 to NM9,	NM1 to NM7, NM10		
		40.7.1	NM11 to NM14	20 1	A4 X 1	00 X I
16-Ju	l 17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul
		<u>1 hr TSP X3</u>	<u>1 hr TSP X3</u>			
		AM2	AM1			
		<u>Noise</u> NM8 to NM9,	<u>Noise</u> NM1 to NM7, NM10			
		NM11 to NM14	NMI to NM/, NMI0			
23-Ju	l 24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul
	<u>1 hr TSP X3</u> AM2	<u>1 hr TSP X3</u> AM1			1 hr TSP X3 AM2	
	AM2	AMI			AM2 Monitoring of Flora Species	
	Noise	Noise			of Conservation Interest	
	<u>Noise</u> NM8 to NM9,	NM1 to NM7, NM10			(for Keteleeria fortunei &	
	NM11 to NM14				Aquilaria sinensis)	
30-Ju	I 31-Jul					
	1 hr TSP X3					
	<u>1 hr TSP X3</u> AM1					
	<u>Noise</u>					
	NM1 to NM7, NM10					

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 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 Tentative Impact Air Quality and Noise Monitoring Schedule (August 2023)

Sunday	Monday	Monday Tuesday		Thursday	Friday	Saturday
		1-Aug	Wednesday 2-Aug	3-Aug	4-Aug	5-Aug
				<u>1 hr TSP X3</u> AM2 Noise NM8 to NM9, NM11 to NM14	<u>1 hr TSP X3</u> AM1	
6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug
			<u>1 hr TSP X3</u> AM2 <u>Noise</u> NM8 to NM9,	<u>1 hr TSP X3</u> AM1 <u>Noise</u> NM1 to NM7, NM10		
13-Aug	14-Aug	15-Aug	NM11 to NM14 16-Aug	17-Aug	18-Aug	19-Aug
13-Aug	14-Aug	15-Aug	10-Aug	1/-Aug	18-Aug	19-Aug
		<u>1 hr TSP X3</u> AM2 <u>Noise</u> NM8 to NM9, NM11 to NM14	<u>1 hr TSP X3</u> AM1 <u>NM1 to NM7, NM10</u>			
20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug
	<u>1 hr TSP X3</u> AM2 <u>Noise</u> NM8 to NM9, NM11 to NM14	<u>1 hr TSP X3</u> AM1 <u>Noise</u> NM1 to NM7, NM10	-		<u>1 hr TSP X3</u> AM2 Monitoring of Flora Species of Conservation Interest (for <i>Keteleeria fortunei &</i> Aquilaria sinensis)	
27-Aug	28-Aug	29-Aug	30-Aug	31-Aug		
	<u>1 hr TSP X3</u> AM1 <u>Noise</u> NM1 to NM7, NM10			<u>1 hr TSP X3</u> AM2 NM8 to NM9, NM11 to NM14		

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

NM1 - Village House, Sha Ling
NM2 - Village House, Sha Ling
NM3 - Village House, No. 248, Sha Ling
NM4 - Village House, Sha Ling
NM6 - Village House, Sha Ling
NM6 - Village House, Sha Ling
NM7 - Village House, Sha Ling

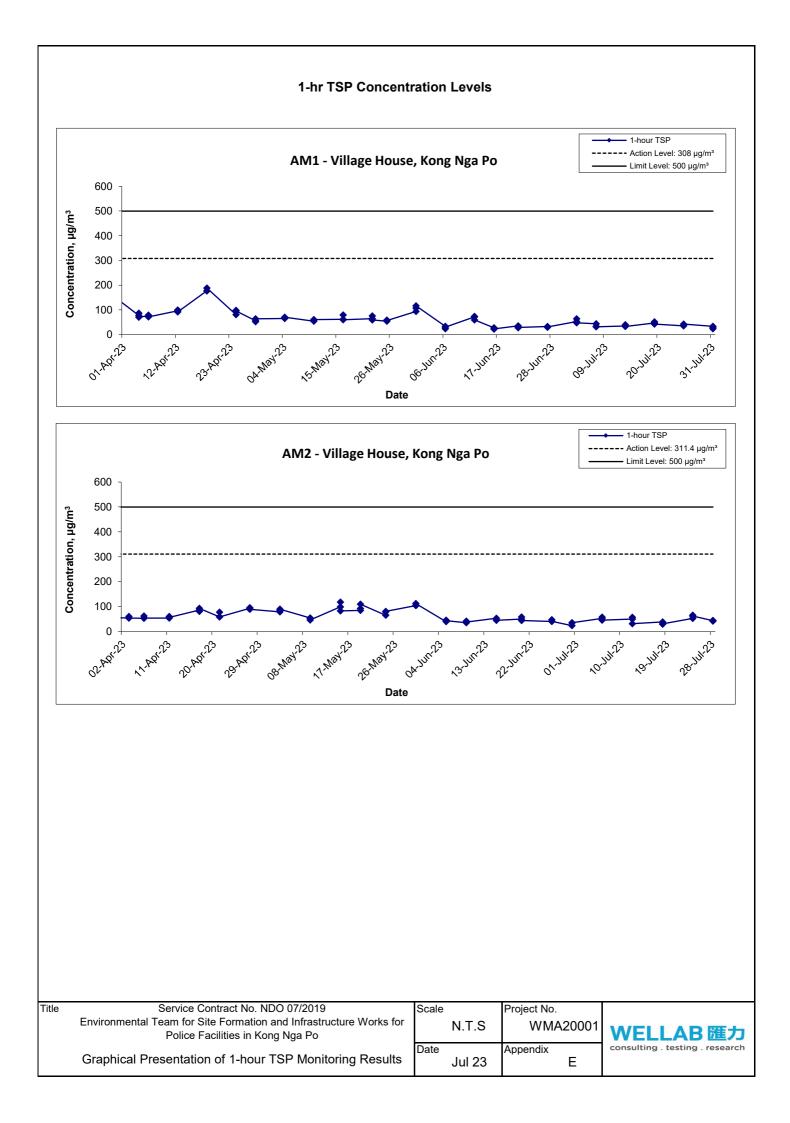
NM8 - Village House, Sha Ling NM9 - Village House, Kong Nga Po NM10 - Village House, Kong Nga Po NM11 - Village House, Kong Nga Po NM12 - Village House, Kong Nga Po NM13 - Village House, near Man Kam To Road

APPENDIX E AIR QUALITY MONITORING RESULTS AND GRAPHICAL PRESENTATION

Location AM1	Location AM1 - Village House, Kong Nga Po								
Date	Time	Weather	Particulate Concentration (µg/m³)						
3-Jul-23	13:00	Cloudy	52.9						
3-Jul-23	14:00	Cloudy	63.8						
3-Jul-23	15:00	Cloudy	47.7						
7-Jul-23	13:00	Fine	43.5						
7-Jul-23	14:00	Fine	33.5						
7-Jul-23	15:00	Fine	31.8						
13-Jul-23	14:45	Sunny	34.6						
13-Jul-23	15:45	Sunny	39.8						
13-Jul-23	16:45	Sunny	32.8						
19-Jul-23	13:00	Cloudy	47.0						
19-Jul-23	14:00	Cloudy	51.4						
19-Jul-23	15:00	Cloudy	42.6						
25-Jul-23	13:00	Sunny	35.3						
25-Jul-23	14:00	Sunny	35.9						
25-Jul-23	15:00	Sunny	42.7						
31-Jul-23	14:00	Sunny	33.7						
31-Jul-23	15:00	Sunny	28.0						
31-Jul-23	16:00	Sunny	23.4						
		Minimum	23.4						
		Maximum	63.8						
		Average	40.0						

Appendix E - 1-hour TSP Monitoring Results

Location AM2	Location AM2 - Village House, Kong Nga Po								
Date	Time	Weather	Particulate Concentration (µg/m³)						
6-Jul-23	13:00	Sunny	52.8						
6-Jul-23	14:00	Sunny	57.6						
6-Jul-23	15:00	Sunny	45.5						
12-Jul-23	13:00	Sunny	50.5						
12-Jul-23	14:00	Sunny	57.1						
12-Jul-23	15:00	Sunny	31.3						
18-Jul-23	14:30	Cloudy	38.9						
18-Jul-23	15:30	Cloudy	29.6						
18-Jul-23	16:30	Cloudy	31.1						
24-Jul-23	9:00	Cloudy	53.0						
24-Jul-23	10:00	Cloudy	65.6						
24-Jul-23	11:00	Cloudy	62.5						
28-Jul-23	8:00	Sunny	43.7						
28-Jul-23	9:00	Sunny	44.7						
28-Jul-23	10:00	Sunny	41.7						
		Minimum	29.6						
		Maximum	65.6						
		Average	47.0						



APPENDIX F NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

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}	
			13:00	59.6	61.0	57.5			
			13:05	57.9	58.5	57.4			
3-Jul-23	Cloudy	0.0	13:10	58.8	59.9	57.5	59.3		
5-5ui-25	Cioudy	0.0	13:15	59.0	60.6	57.5	59.5		
			13:20	61.1	65.1	56.9			
			13:25	58.8	59.6	57.9			
			13:00	60.4	62.3	58.5			
			13:05	58.1	59.8	56.5			
13-Jul-23	Sunny	0.0	13:10	60.0	62.1	56.2	60.3	54.9	
10-001-20	Ounny	0.0	13:15	60.6	61.5	59.0	00.5		
			13:20	61.2	63.2	59.4			
			13:25	60.8	63.7	59.0			
			13:00	56.8	57.9	55.4	57.3		
			13:05	57.0	58.1	55.9			
19-Jul-23	Cloudy	0.0	13:10	58.9	59.8	57.3			
19-Jui-23	Cioudy	0.0	13:15	57.7	58.6	56.3			
			13:20	56.8	58.6	54.4			
			13:25	55.9	57.2	53.9			
			10:25	58.0	58.5	56.7			
			10:30	59.8	61.9	57.3			
25-Jul-23	Sunny	0.0	10:35	60.9	62.6	57.7	60.1		
23-Jui-23	Sunny	0.0	10:40	59.3	61.3	56.6	00.1		
			10:45	60.4	61.7	57.0			
			10:50	61.5	63.1	58.7			
			14:52	56.0	57.8	53.7]	
			14:57	54.8	56.3	53.4			
31-Jul-23	Suppy	0.1	15:02	54.8	55.9	53.5	50.0		
31-Jui-∠3	Sunny	U. I	15:07	57.6	61.6	54.5	56.8		
			15:12	57.7	60.3	54.6			
			15:17	58.6	61.8	54.7			

Location NM2	- Village Ho	use, Sha Ling						
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Leve
		,		L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
			13:05	56.4	59.8	53.6		
			13:10	55.6	57.0	54.0		
3-Jul-23	Cloudy	0.0	13:15	55.3	56.2	53.4	55.9	
3-Jui-23	Cloudy	0.0	13:20	56.4	57.9	54.6	55.9	
			13:25	56.3	58.3	54.0		
			13:30	55.2	56.3	54.0		
			13:00	57.2	59.5	53.0		
			13:05	56.9	59.2	52.2		
40 101 00	0	0.0	13:10	58.3	61.1	54.0	FO 7	56.7
13-Jul-23	Sunny	0.0	13:15	57.1	59.7	53.9	56.7	
			13:20	53.7	55.8	51.2		
			13:25	55.7	57.4	52.0		
			13:05	56.7	58.1	53.4	59.9	
			13:10	63.1	66.0	55.6		
40 101 00	Olevely		13:15	61.8	65.2	53.7		
19-Jul-23	Cloudy	0.0	13:20	59.3	60.1	55.3		
			13:25	56.5	57.2	53.0		
			13:30	56.8	57.9	53.2		
			10:35	63.2	65.0	60.7		
			10:40	64.4	67.5	59.8		
05 1 1 00			10:45	68.4	71.5	60.6	00.0	
25-Jul-23	Sunny	0.0	10:50	66.4	69.2	58.7	66.2	
			10:55	66.4	69.6	60.8		
			11:00	66.3	69.9	60.5		
	1		15:00	53.9	56.0	50.7		1
			15:05	54.4	56.1	50.4		
04 1 1 00			15:10	55.1	57.6	51.0	55.2	
31-Jul-23	Sunny	0.0	15:15	56.7	59.7	51.9		
			15:20	55.6	58.3	51.4		
			15:25	54.9	56.9	50.9		

Location NM3 - Village House No. 248, Sha Ling									
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)		nin)	Average	Baseline Level	
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
			13:40	57.7	60.6	49.8			
			13:45	55.1	59.6	50.0			
3-Jul-23	Cloudy	0.0	13:50	56.4	58.9	49.5	56.8		
3-Jui-23	Cloudy	0.0	13:55	52.9	55.6	49.9	50.0		
			14:00	53.0	54.9	48.9			
			14:05	60.4	62.7	49.3			
		13:40	57.6	59.2	48.3				
			13:45	54.5	55.2	43.4			
13-Jul-23	Sunny	0.0	13:50	54.7	54.8	42.6	55.3	54.5	
10-001-20	Gunny	0.0	13:55	55.1	58.4	42.7			
			14:00	52.6	52.9	43.0			
			14:05	55.6	58.2	46.2			
		0.0	13:45	54.1	54.4	51.1	53.8		
			13:50	52.4	56.5	49.7			
19-Jul-23	Cloudy		13:55	57.3	59.1	50.1			
19-Jui-23	Cloudy	0.0	14:00	50.3	52.2	47.7			
			14:05	51.6	55.0	50.3			
			14:10	53.1	55.1	50.5			
			14:16	55.8	57.4	48.5			
			14:21	54.8	57.9	49.0			
25-Jul-23	Sunny	1.2	14:26	57.1	59.1	50.5	55.9		
20-Jui-25	Sunny	1.2	14:31	55.5	58.1	51.8	55.9		
			14:36	57.5	60.9	49.0			
			14:41	53.7	56.7	49.2			
			14:55	52.6	55.8	47.9		7	
			15:00	50.9	53.2	48.3			
24 1.1 22	Cummi	0.0	15:05	57.7	61.1	48.4			
31-Jul-23	Sunny	0.0	15:10	57.4	59.2	49.1	55.4		
			15:15	56.7	59.1	49.4			
			15:20	52.0	54.3	47.9			

Date	Weather	Wind Speed (m/s)	Time	Uni	t: dB (A) (5-r	min)	Average	Baseline Lev
Date				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
			14:25	59.4	60.6	55.3		
			14:30	59.1	60.3	54.9		
3-Jul-23	Sunny	0.0	14:35	59.7	60.1	55.1	59.7	
3-Jui-23	Sunny	0.0	14:40	60.9	63.2	56.4	59.7	
			14:45	59.0	60.4	55.5		
			14:50	59.7	61.2	54.9		
			14:20	56.8	59.4	53.1		
	-Jul-23 Sunny		14:25	56.0	58.4	52.7		
12 101 22		0.3	14:30	56.4	58.9	53.5	57.5	58.7
13-Jul-23		0.3	14:35	56.5	59.0	54.0	57.5	
			14:40	59.2	62.7	53.2		
			14:45	59.0	60.0	53.9		
			14:30	65.1	68.7	57.6		
			14:35	66.4	68.1	58.2	64.4 58.7	
19-Jul-23	Cloudy	0.0	14:40	64.0	67.4	52.4		
19-Jui-25	Cloudy		14:45	62.9	67.4	52.1		
			14:50	63.3	67.6	52.7		
			14:55	63.4	67.9	51.7		
			11:25	58.7	62.0	52.5		
			11:30	57.7	59.4	55.1		
05 101 00	Cummu.	0.5	11:35	57.2	59.8	49.7	57.7	
25-Jul-23	Sunny	0.5	11:40	56.5	58.4	49.9	57.7	
			11:45	58.5	61.6	51.8		
			11:50	57.3	59.4	50.1		
			13:00	57.6	59.4	55.5		1
31-Jul-23 Sunny			13:05	58.0	59.8	53.5		
	Cummu	0.2	13:10	55.2	56.9	53.0	F0 7	
	Sunny	0.3	13:15	56.0	58.5	52.3	58.7	
			13:20	56.0	57.6	53.5		
			13:25	63.3	64.7	53.3		

Location NM5	- Village Ho	use No. 270, Sha Li	ing					
Date	Weather	Wind Speed (m/s)	Time	Uni	Unit: dB (A) (5-min)			Baseline Level
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
			13:45	61.0	63.4	55.6		
			13:50	58.6	61.5	54.2		
3-Jul-23	Cloudy	0.0	13:55	59.7	61.8	54.3	59.7	
0-0ul-20	Cloudy	0.0	14:00	59.3	61.6	55.4	55.7	
			14:05	59.6	61.9	55.0		
			14:10	59.6	61.3	54.4		
			13:45	62.6	64.4	58.6		
	13-Jul-23 Sunny 0.0		13:50	60.9	62.6	58.4		
13-Jul-23		0.0	13:55	61.4	63.3	58.5	61.5	
10 001 20		0.0	14:00	60.4	61.3	57.8	- 01.5	
			14:05	60.7	62.2	57.2		
			14:10	62.3	63.1	58.7		
			13:50	66.2	70.3	57.7		
			13:55	64.7	69.6	57.4	63.9	57.0
19-Jul-23	Cloudy	0.0	14:00	64.1	68.3	57.1		
10 001 20	Cloudy		14:05	62.5	64.7	57.4		
			14:10	63.6	68.9	57.6		
			14:15	60.5	63.2	55.8		
			11:17	61.3	64.2	56.1		
			11:22	65.1	67.4	56.1		
25-Jul-23	Sunny	0.2	11:27	67.1	69.3	57.7	63.0	
20-001-20	Gunny	0.2	11:32	57.1	58.3	53.5	00.0	
			11:37	61.0	62.1	54.4		
			11:42	57.6	59.1	53.8		
			13:58	57.4	58.3	50.4		
			14:03	67.7	73.0	51.6		
31-Jul-23	Sunny	0.1	14:08	54.6	56.2	50.3	61.0	
31-Jui-23	Sunny	0.1	14:13	55.4	58.2	50.1	01.0	
			14:18	54.3	58.2	49.3		
			14:23	51.4	52.5	49.6		

Date	Weather	Wind Speed (m/s)	Time	Uni	Unit: dB (A) (5-min)			Baseline Leve
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
			14:20	58.9	60.6	56.8		
			14:25	58.5	60.0	55.3		
3-Jul-23	Suppy	0.0	14:30	58.0	59.8	54.8	58.4	
3-Jui-23	Sunny	0.0	14:35	58.7	60.0	54.9	30.4	
			14:40	58.6	60.2	56.2		
			14:45	57.7	58.9	54.6		
			15:30	67.0	70.2	60.7		
			15:35	67.3	71.1	61.0		
12 101 22	Jul-23 Sunny	0.0	15:40	68.9	71.7	63.5	66.0	_
13-Jul-23 S	Sunny	0.0	15:45	64.9	68.2	56.6	00.0	
			15:50	62.7	64.6	55.0		
			15:55	59.7	63.5	53.3		
			14:30	61.4	66.0	51.2		
		-	14:35	61.2	66.2	54.0		
10 101 00	Cloudy	0.0	14:40	64.0	68.3	53.3	62.4	56.0
19-Jul-25	Cloudy		14:45	61.3	65.9	51.0		
19-Jul-23 C		-	14:50	62.6	66.4	52.5		
		-	14:55	63.0	66.8	49.5		
			15:15	54.1	55.3	52.8		
			15:20	56.8	58.7	51.9		
	0	0.5	15:25	54.5	56.0	48.8		
25-Jul-23	Sunny	0.5	15:30	52.3	54.2	49.5	56.5	
			15:35	60.0	63.9	49.6		
			15:40	56.8	58.9	52.2		
			13:35	57.9	58.9	52.2		-
31-Jul-23 Sunny		13:40	57.8	62.0	51.9			
	Cummu		13:45	69.3	73.9	56.0	CE C	
	Sunny	0.2	13:50	69.6	74.8	52.8	65.6	
			13:55	62.6	67.2	51.4		
			14:00	61.0	63.5	51.0		

Location NM	C Villen	- 270	Che Lin

Location NM7	- Village Hor	use, Sha Ling						
Date	Weather	Wind Speed (m/s)	Time	Uni	it: dB (A) (5-r	nin)	Average	Baseline Level
		,		L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
			15:05	53.2	53.9	52.5		
			15:10	57.9	58.9	52.1		
3-Jul-23	Cloudy	0.0	15:15	58.6	63.1	52.4	56.2	
3-Jui-23	Cloudy	0.0	15:20	54.4	56.8	52.0	50.2	
			15:25	54.7	57.0	52.1		
			15:30	55.8	57.7	51.6		
			15:00	53.7	55.0	51.0		
	3-Jul-23 Sunny 0.0		15:05	54.1	55.7	51.5		
13_lul_23		0.0	15:10	55.5	57.4	51.8	57.2	
13-34-23	Sunny	0.0	15:15	53.7	55.2	51.4	51.2	
			15:20	51.3	52.4	50.0	-	
			15:25	62.8	66.5	52.8		
			15:15	54.8	58.3	50.1		
		0.0	15:20	54.3	55.7	52.5	55.0	49.8
19-Jul-23	Cloudy		15:25	53.5	55.1	52.6		
19-Jui-25	Cloudy		15:30	54.3	55.8	52.5		
			15:35	56.9	60.8	51.9		
			15:40	55.4	57.7	52.3		
			14:18	51.1	52.3	49.8		
			14:23	54.7	56.1	50.4		
25-Jul-23	Cummu	0.3	14:28	54.3	55.7	49.6	53.1	
20-Jui-23	Sunny	0.3	14:33	51.9	53.8	48.8	55.1	
			14:38	53.4	54.1	49.2		
			14:43	51.6	53.5	49.1		
			14:10	53.3	53.6	45.0		
			14:15	49.4	52.0	45.8		
04.1.100		0.0	14:20	50.9	53.1	47.5	50.4	
31-Jul-23	Sunny	0.0	14:25	51.3	54.3	46.3	52.1	
			14:30	52.2	55.8	46.7	_	
			14:35	53.9	55.5	50.8		

	- village Ho	use, Sha Ling						
Date	Weather	Wind Speed (m/s)	Time	Uni	Unit: dB (A) (5-min)			Baseline Leve
		,		L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
			15:40	57.4	59.3	54.8		
			15:45	54.4	55.5	52.6		
6-Jul-23	Suppy	0.0	15:50	55.1	57.2	53.2	58.4	
0-Jui-23	Sunny	0.0	15:55	60.4	62.6	53.9	- 58.4	
			16:00	61.9	62.6	61.6		
			16:05	55.4	57.3	52.2		
			13:45	64.0	68.6	54.9	66.3	
	Cloudy	0.0	13:50	69.0	73.8	65.6		
40 1.1.00			13:55	65.0	69.5	54.9		
12-Jul-23			14:00	68.2	73.8	53.7		
			14:05	64.7	69.7	54.4		
			14:10	64.2	68.1	55.0		
			15:25	59.5	62.2	56.5		57.6
			15:30	58.3	60.6	56.0		
40.1.1.00		0.0	15:35	57.3	59.1	55.5	50.7	
18-Jul-23	Cloudy	0.0	15:40	58.4	61.1	55.5	58.7	
			15:45	59.0	62.1	55.6		
			15:50	59.2	62.0	56.1		
			09:20	53.1	55.3	50.5		
			09:25	53.2	55.9	50.0		
			09:30	53.8	56.6	50.1	53.7	
24-Jul-23	Cloudy	0.0	09:35	52.5	55.0	49.7		
			09:40	53.7	55.7	49.9		
			09:45	55.3	55.8	49.8		

Location NM9	- Village Ho	use, Kong Nga Po						
Date	Weather	Wind Speed (m/s)	Time	Uni	Unit: dB (A) (5-min)			Baseline Level
		,		L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
			15:00	59.9	62.7	56.7		
			15:05	57.7	59.3	56.1	- 58.3	
6-Jul-23	Sunny	0.0	15:10	57.4	57.9	56.9		
0-301-23 30	Sunny	0.0	15:15	58.0	58.7	57.1	50.5	
			15:20	58.0	59.1	57.2		
			15:25	58.2	59.3	57.0		
	-Jul-23 Cloudy	0.0	14:30	66.0	66.9	59.1		
			14:35	70.6	72.0	58.6	66.9	55.9
12_lul_23			14:40	66.1	69.7	58.6		
12-501-25			14:45	64.9	67.2	61.4		
			14:50	65.4	68.9	58.2		
			14:55	65.0	68.6	58.2		
			13:50	58.3	59.1	57.5		
			13:55	58.2	59.2	57.5		
18-Jul-23	Cloudy	0.0	14:00	60.7	63.8	57.9	59.0	
10-Jui-23	Cloudy	0.0	14:05	58.7	59.0	57.0	59.0	
			14:10	59.2	60.7	56.7		
			14:15	58.1	58.8	57.4		
			11:20	59.7	61.9	56.8		
			11:25	58.6	59.7	57.2		
24-Jul-23	Suppy	0.1	11:30	59.8	61.4	56.9	50.4	
∠4-Jui-∠3	Sunny	0.1	11:35	58.5	60.2	56.2	59.4 	
			11:40	60.1	62.6	56.4		
			11:45	59.2	60.9	56.3		

Date	Weather	Wind Speed (m/s)	Time	Uni	it: dB (A) (5-ı	min)	Average	Baseline Leve
Duto	Woulder			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
			15:05	58.2	61.3	53.0	· · ·	
			15:10	55.7	58.0	51.2		
2 1.1 22	Claudy	0.0	15:15	56.6	58.4	52.2	57.4	
3-Jul-23	Cloudy	0.0	15:20	58.4	62.1	52.1	57.4	
			15:25	56.8	60.2	52.4		
			15:30	58.2	61.3	50.4		-
			16:15	60.7	62.7	53.8		
			16:20	54.8	57.0	52.6		
13-Jul-23 Sur	Supply	0.0	16:25	53.2	54.5	52.2	56.1	
	Sunny	0.0	16:30	53.3	54.6	52.2	50.1	
			16:35	54.3	56.5	52.5		
			16:40	54.4	55.9	53.0		
			15:20	53.1	53.8	52.4		52.8
			15:25	54.8	56.8	52.6	54.2	
40 1.1.00		0.0	15:30	54.1	55.1	52.9		
19-Jul-23	Cloudy		15:35	54.5	55.7	53.1		
			15:40	54.5	55.6	53.1		
			15:45	54.1	55.3	52.8		
			16:00	52.3	53.4	50.5		
			16:05	52.9	54.1	51.2		
05 1 1 00	~		16:10	53.8	55.2	50.9	FF A	
25-Jul-23	Sunny	0.2	16:15	58.7	65.3	51.7	55.1	
			16:20	55.8	57.9	51.9		
			16:25	53.0	55.2	50.0		
	1		14:00	50.5	52.4	48.6		1
31-Jul-23 Sur			14:05	53.2	55.6	49.3		
			14:10	51.9	53.4	48.9		
	Sunny	0.0	14:15	50.6	52.7	48.5	51.5	
			14:20	50.9	52.8	48.6		
			14:25	51.3	53.5	48.5		

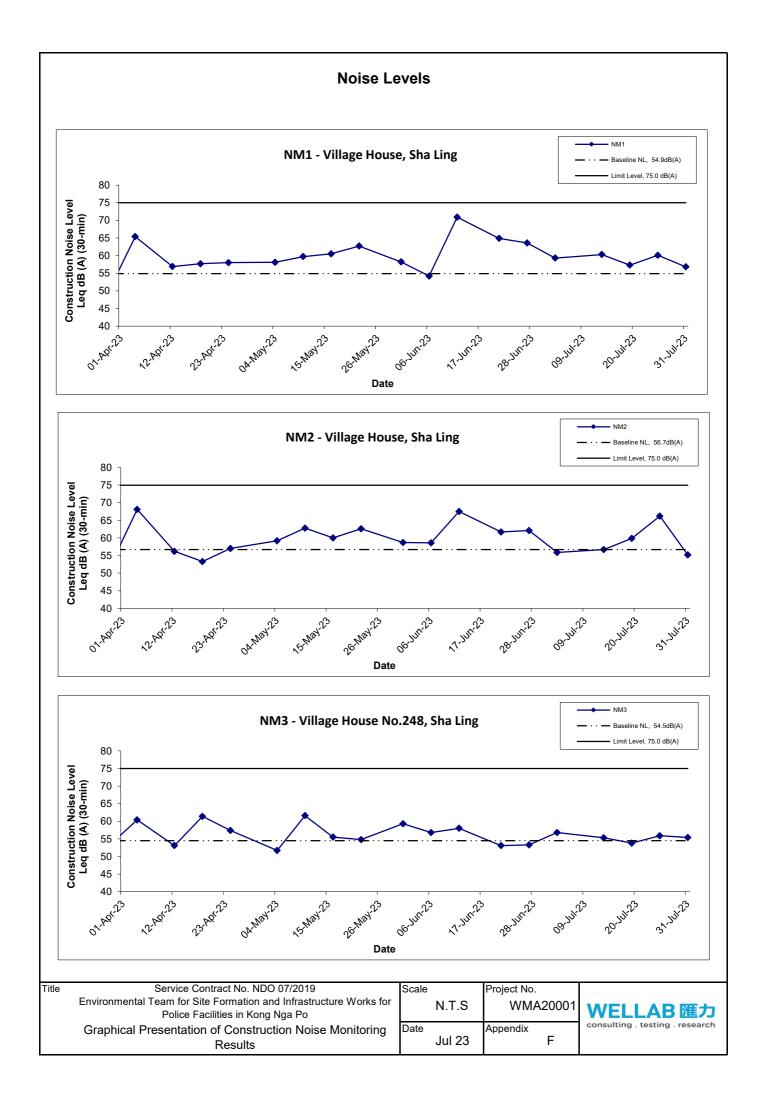
Location NM9 - Villago House, Kong Nga

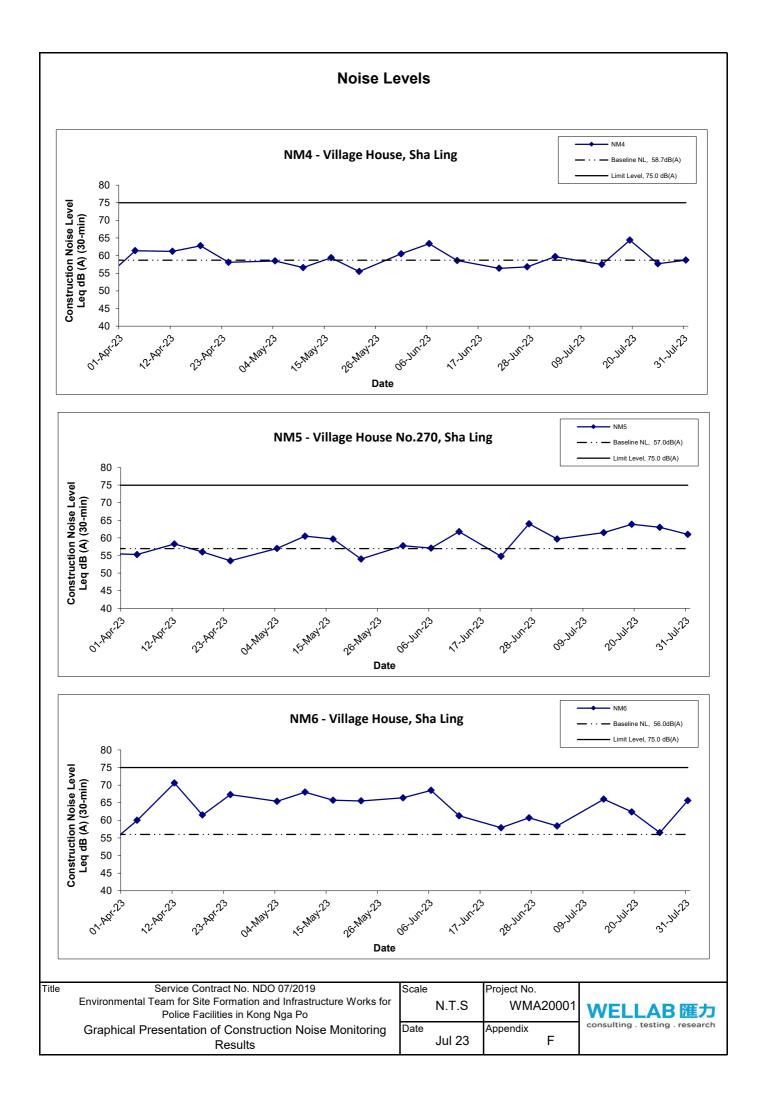
Location NM1	1 - Village H	ouse, Kong Nga Po)					-
Date	Weather	Wind Speed (m/s)	Time	Uni	Unit: dB (A) (5-min)			Baseline Leve
		,		L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
			14:20	55.9	57.5	53.0		
			14:25	56.1	57.8	52.6		
6-Jul-23	Sunny	0.0	14:30	55.9	57.7	52.5	55.8	
0-041-20	Sunny	0.0	14:35	56.0	57.8	52.9	55.6	
			14:40	55.1	57.4	52.4		
			14:45	55.8	57.5	52.8		
	Jul-23 Cloudy	0.0	15:10	54.4	56.2	52.1		
			15:15	56.7	57.9	55.3	55.6	46.4
12-Jul-23			15:20	56.4	57.3	55.5		
12-501-25			15:25	56.2	56.8	55.5		
			15:30	54.7	55.5	53.8		
			15:35	54.5	55.4	53.6		
			13:45	56.6	61.9	48.8		
			13:50	50.8	52.8	48.5		
18-Jul-23	Cloudy	0.1	13:55	49.6	51.5	48.2	52.0	
10-Jui-25	Cloudy	0.1	14:00	49.4	50.4	48.3	52.0	
			14:05	49.6	50.6	48.7		
			14:10	49.7	50.3	49.0		
			11:30	48.9	51.0	43.3		
24-Jul-23			11:35	52.8	56.6	46.1		
	Supply	0.0	11:40	53.9	58.9	42.9	FO 1	
	Sunny	0.0	11:45	46.4	48.3	43.2	50.1	
			11:50	45.2	47.5	42.2		
			11:55	44.1	46.2	40.3		

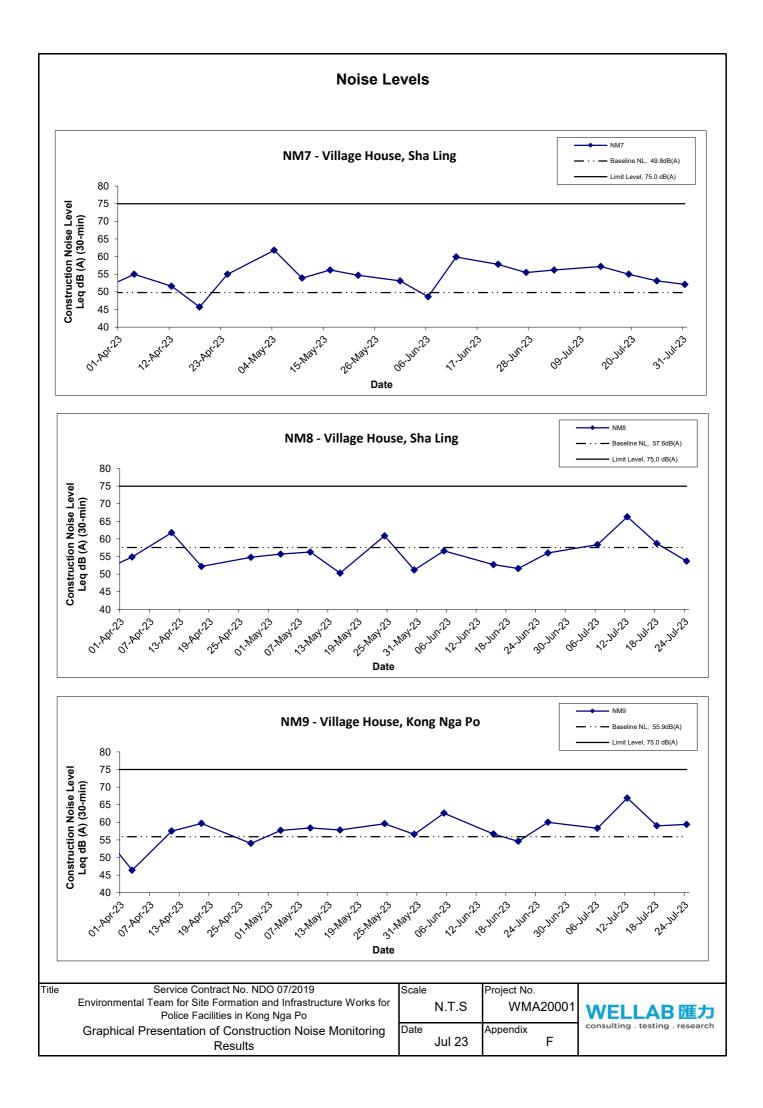
Date	Weather	Wind Speed (m/s)	Time	Uni	t: dB (A) (5-r	nin)	Average	Baseline Level
Duto	Woulder			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
			16:20	55.2	56.8	47.6		
			16:25	56.8	59.2	49.1		
6-Jul-23	Sunny	0.0	16:30	58.6	60.1	48.8	56.3	
	Sunny	0.0	16:35	55.2	57.4	47.8	50.5	
			16:40	56.2	58.3	48.5		
			16:45	54.7	56.9	48.1		
	Jul-23 Sunny	0.0	13:00	49.7	52.3	47.0	51.4	
12 101 22			13:05	51.4	54.8	47.2		54.7
			13:10	54.1	58.4	47.2		
12-501-25			13:15	49.9	53.5	46.9		
			13:20	52.3	56.4	46.0		
			13:25	48.9	54.1	47.0		
			14:40	55.8	56.1	54.7		54.7
			14:45	56.7	58.5	54.7		
18-Jul-23	Cloudy	0.0	14:50	56.1	57.3	54.8	55.6	
10-501-25	Cloudy	0.0	14:55	54.2	55.6	54.0	55.0	
			15:00	55.0	55.4	54.2		
			15:05	55.3	56.5	54.7		
			09:05	56.9	61.1	43.7		
24-Jul-23			09:10	48.5	49.5	43.4		
	Sunny	0.0	09:15	57.8	61.8	47.7	53.4	
	Sunny	0.0	09:20	47.8	48.9	42.9	55.4	
			09:25	45.6	47.3	43.5	1	
			09:30	48.1	51.6	43.7		

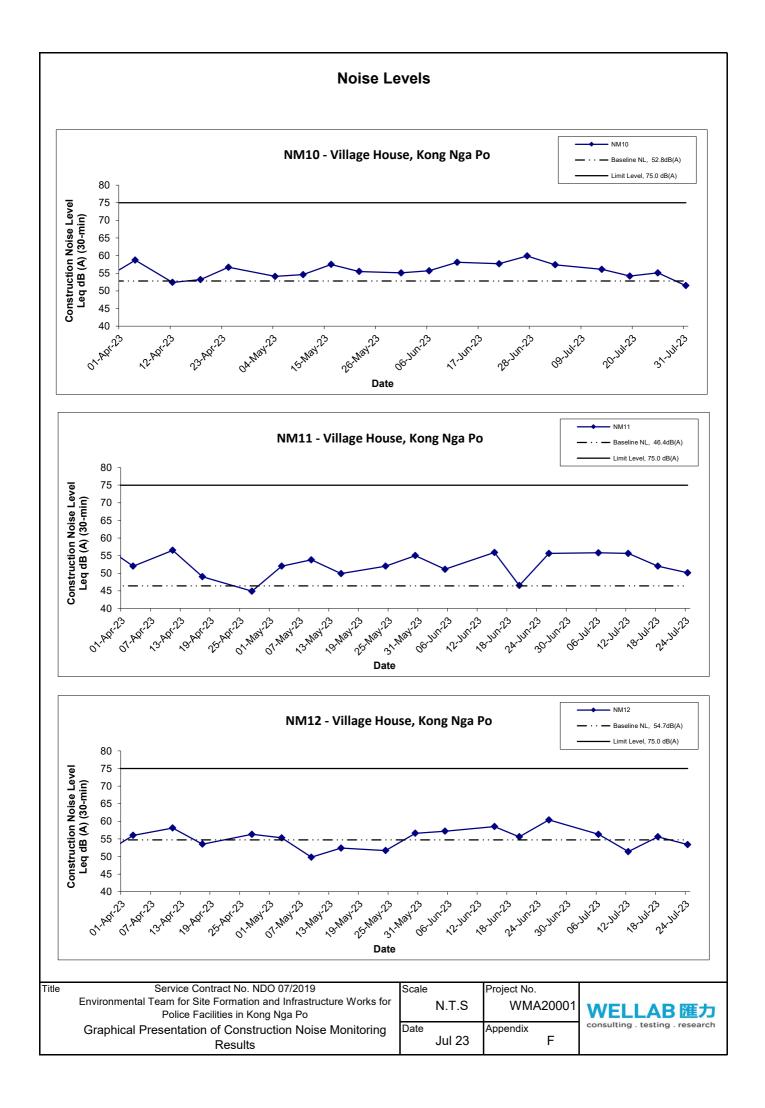
Location NM13 - Village House, Kong Nga Po								
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Level
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
6-Jul-23	Sunny	0.0	13:40	58.1	58.8	57.6	57.9	61.3
			13:45	58.5	59.3	57.5		
			13:50	57.9	58.3	57.6		
	Sunny		13:55	58.2	59.1	57.4		
			14:00	57.8	58.1	57.3		
			14:05	57.0	58.6	55.7		
		0.0	16:30	49.7	53.9	40.5	48.9	
			16:35	46.2	50.5	40.0		
12-Jul-23	Cloudy		16:40	48.6	52.6	41.6		
			16:45	50.1	53.4	41.1		
			16:50	49.3	53.0	42.3		
			16:55	48.5	52.9	41.6		
18-Jul-23	Cloudy	0.0	13:00	55.8	56.1	55.3	57.0	
			13:05	55.6	55.9	55.1		
			13:10	55.6	56.0	55.3		
			13:15	55.7	56.1	55.5		
			13:20	55.9	56.3	55.5		
			13:25	60.5	65.0	55.6		
24-Jul-23	Sunny	0.0	14:30	48.0	49.6	45.8	51.3	
			14:35	48.7	50.1	45.6		
			14:40	50.1	52.4	45.8		
			14:45	50.4	52.5	46.5		
			14:50	53.6	58.8	45.7		
			14:55	53.5	58.9	45.1		

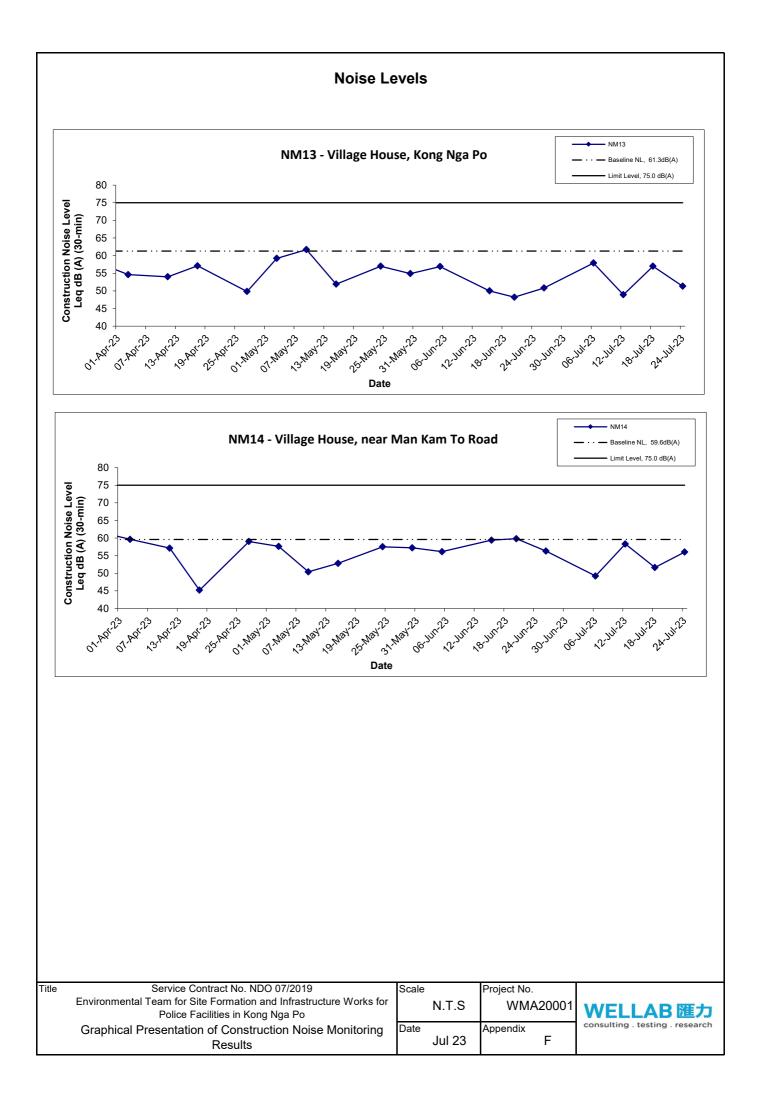
Location NM14 - Village House, near Man Kam To Road								
Date	Weather	Wind Speed (m/s)	Time	Unit: dB (A) (5-min)			Average	Baseline Leve
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
6-Jul-23	Sunny	0.0	13:00	50.5	53.2	46.0	49.2	59.6
			13:05	48.3	52.0	43.7		
			13:10	48.0	51.3	42.8		
			13:15	47.2	50.8	44.0		
			13:20	50.5	52.0	43.4		
			13:25	49.6	52.8	45.0		
		0.0	15:45	59.1	59.9	58.3	58.3	
			15:50	58.5	59.4	57.7		
12-Jul-23	Cloudy		15:55	58.4	59.3	57.5		
			16:00	58.1	59.0	57.3		
			16:05	58.1	59.0	57.4		
			16:10	57.3	59.0	50.5		
18-Jul-23	Cloudy	0.2	13:00	53.4	56.7	48.8	51.6	
			13:05	51.6	54.0	48.8		
			13:10	51.5	54.1	49.0		
			13:15	52.0	55.1	49.3		
			13:20	50.0	51.8	48.6		
			13:25	50.2	51.4	48.8		
24-Jul-23	Sunny	0.0	15:20	54.9	56.1	46.4	56.0	
			15:25	55.7	57.3	47.2		
			15:30	54.7	57.0	45.4		
			15:35	56.3	59.2	46.9		
			15:40	57.4	61.1	48.2		
			15:45	56.2	59.5	46.7		









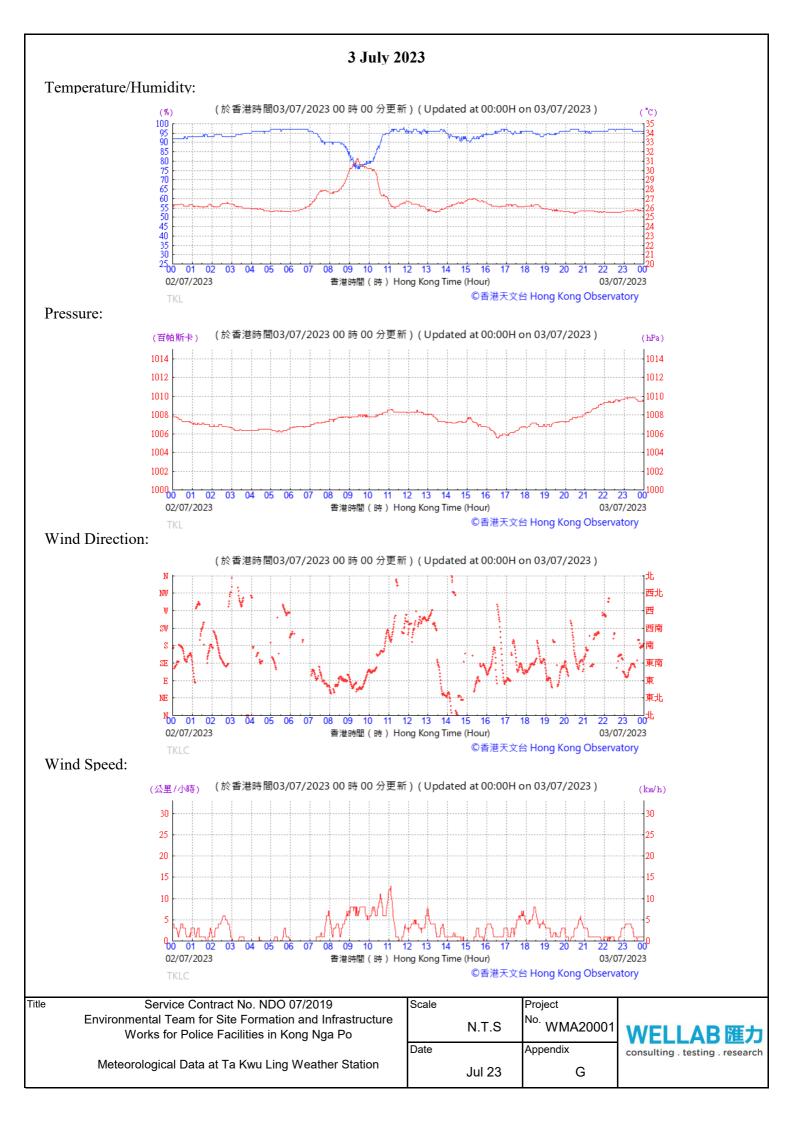


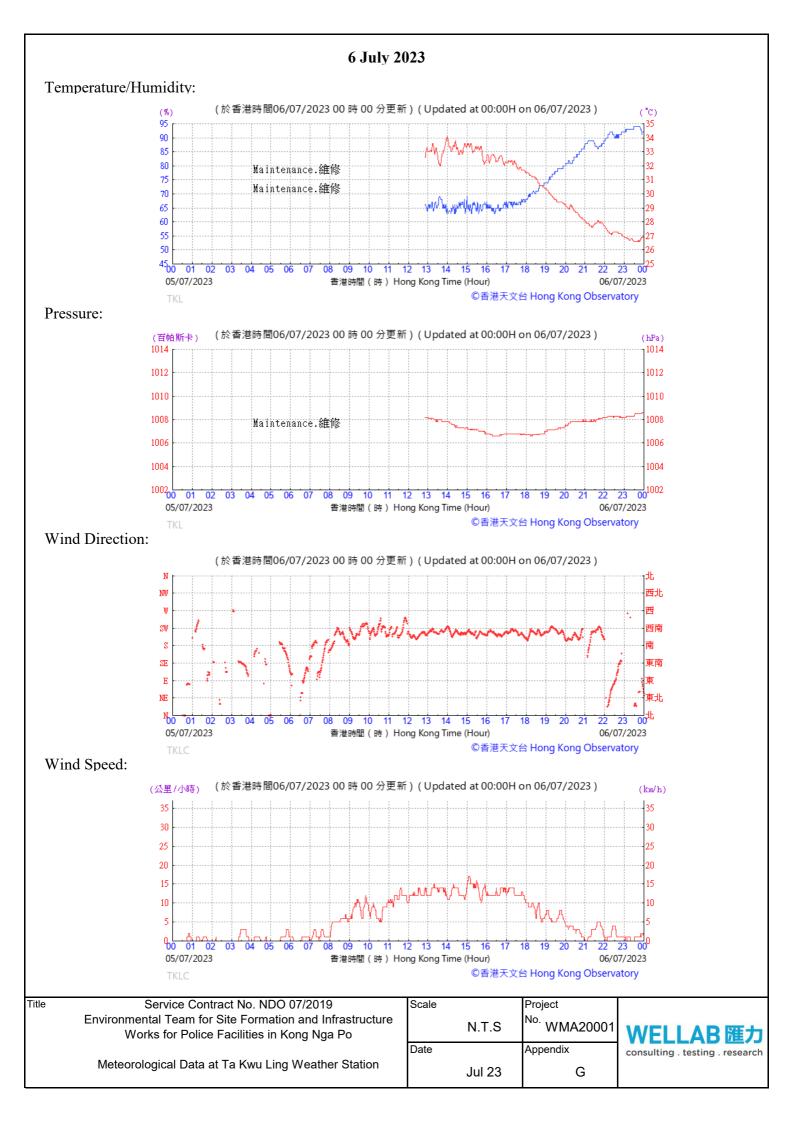
APPENDIX G WEATHER CONDITION

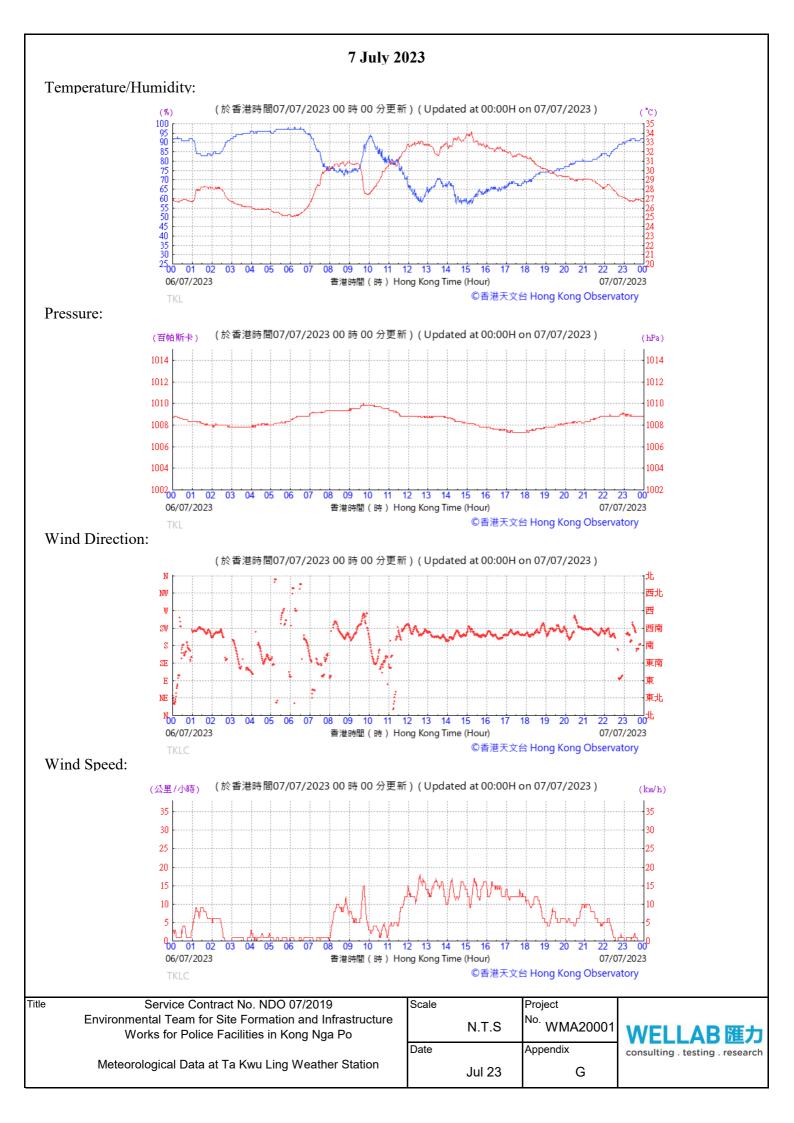
Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)	
1 July 2023	28.9	82	4.7	
2 July 2023	27.5	89	15.6	
3 July 2023	28.9	83	3.6	
4 July 2023	29.3	82	10.6	
5 July 2023	30.4	77	Trace	
6 July 2023	30.3	77	Trace	
7 July 2023	30.4	76	0.3	
8 July 2023	30.4	76	0.0	
9 July 2023	30.5	77	Trace	
10 July 2023	30.7	75	0.0	
11 July 2023	30.7	76	0.0	
12 July 2023	30.7	74	0.0	
13 July 2023	30.9	71	0.0	
14 July 2023	31.3	71	0.0	
15 July 2023	31.1	74	2.5	
16 July 2023	29.7	75	4.9	
17 July 2023	28.4	85	29.0	

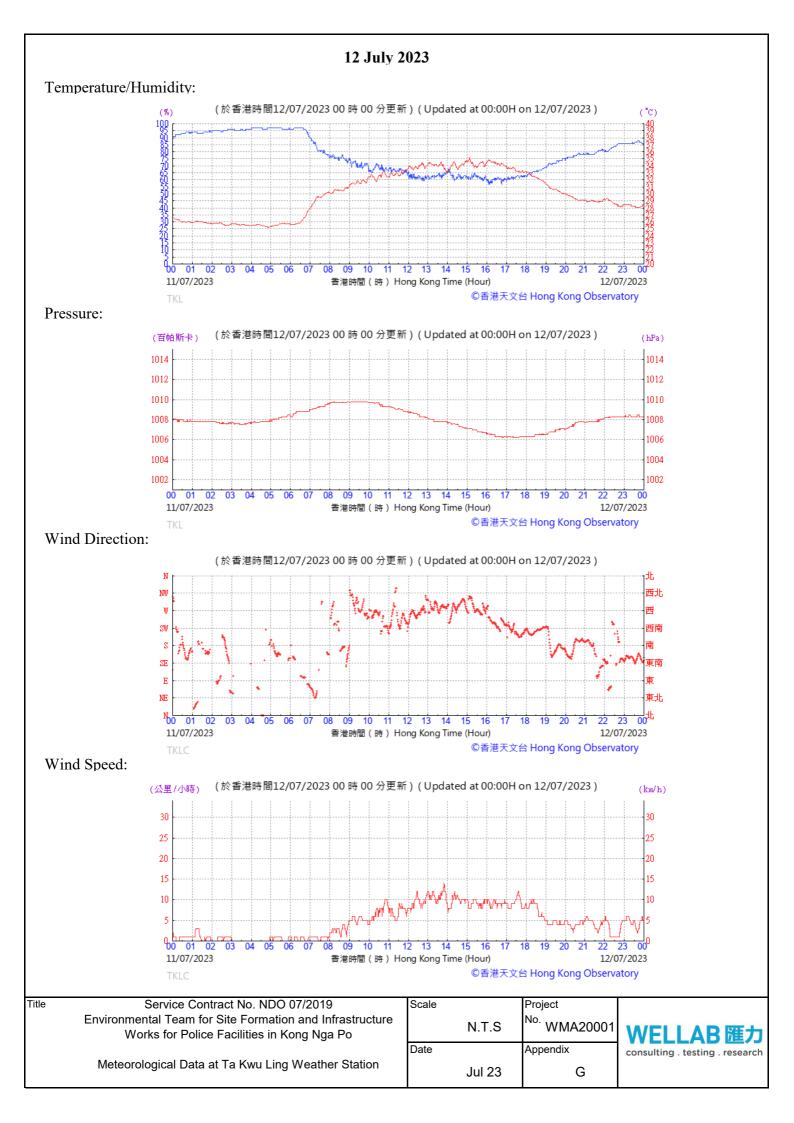
Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Monthly EM&A Report Precipitation (mm)
18 July 2023	29.2	86	10.9
19 July 2023	28.7	88	3.9
20 July 2023	29.6	80	4.8
21 July 2023	29.7	79	Trace
22 July 2023	30.6	76	0.0
23 July 2023	30.6	77	Trace
24 July 2023	30.7	76	0.0
25 July 2023	30.7	73	0.0
26 July 2023	32.0	72	0.0
27 July 2023	32.2	84	6.9
28 July 2023	31.5	87	0.0
29 July 2023	29.8	84	21.0
30 July 2023	29.2	78	10.0
31 July 2023	29.1	81	46.5

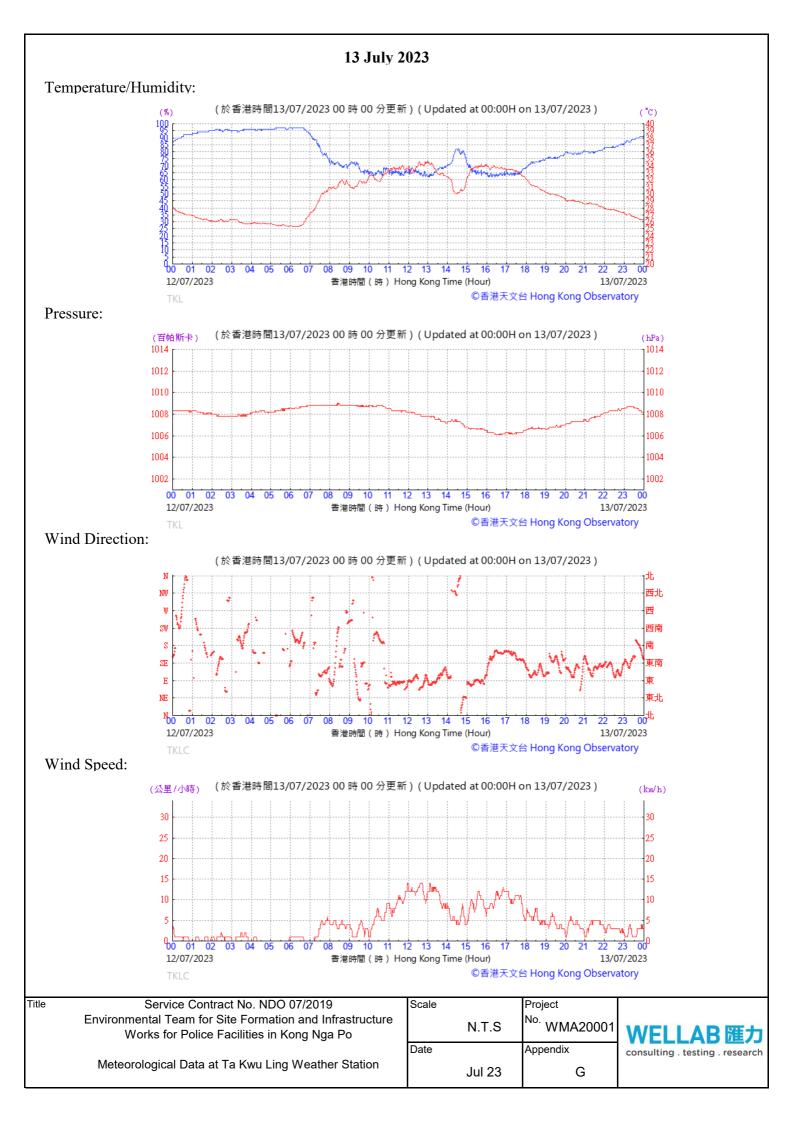
* The above information was extracted from the daily weather summary by Hong Kong Observatory.

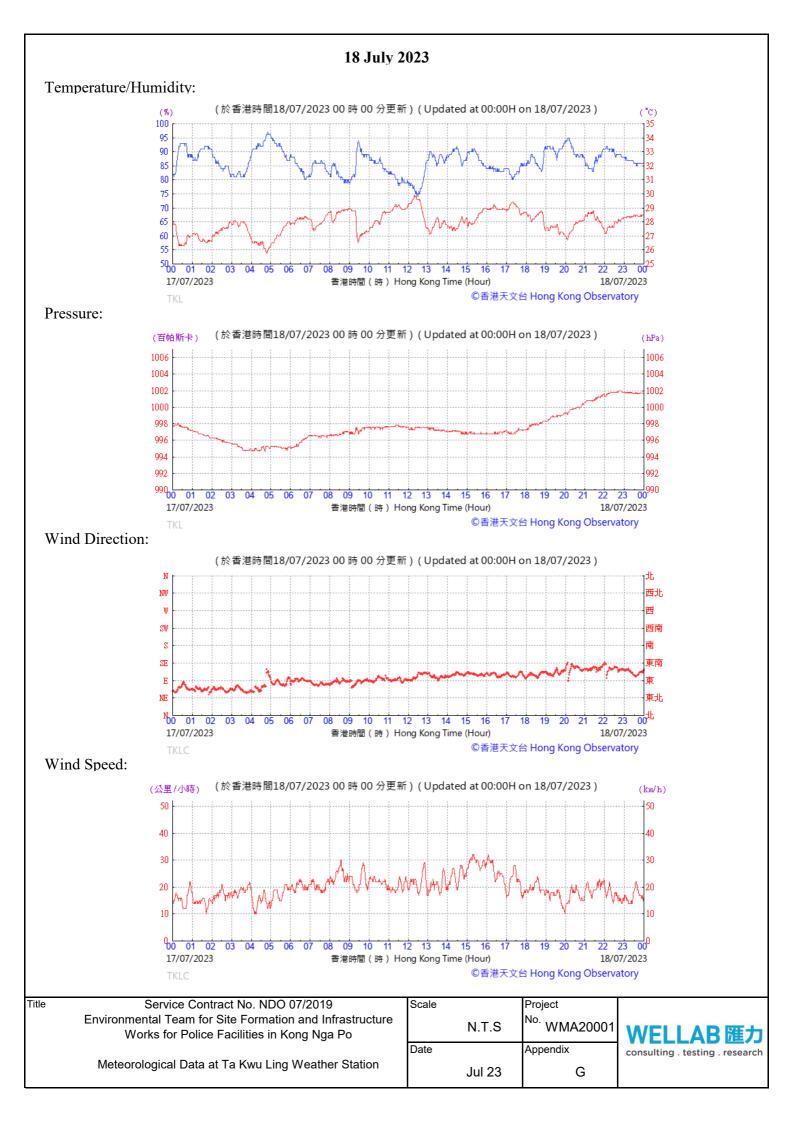


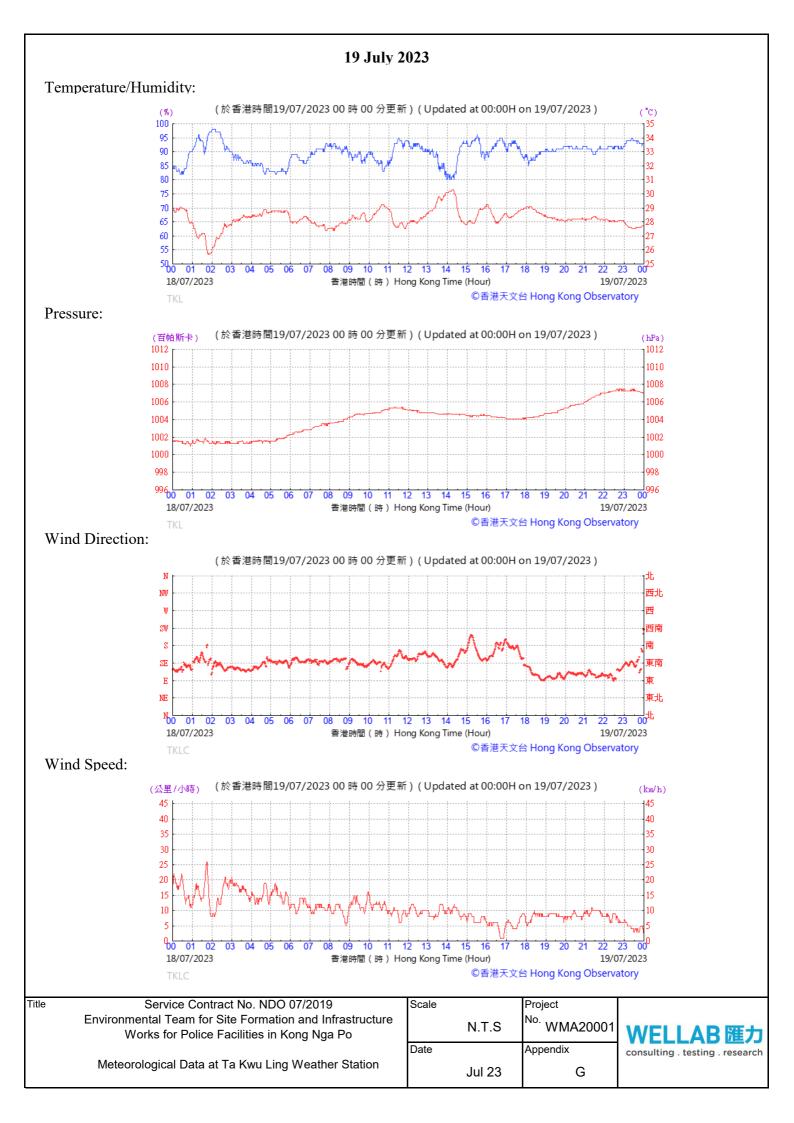


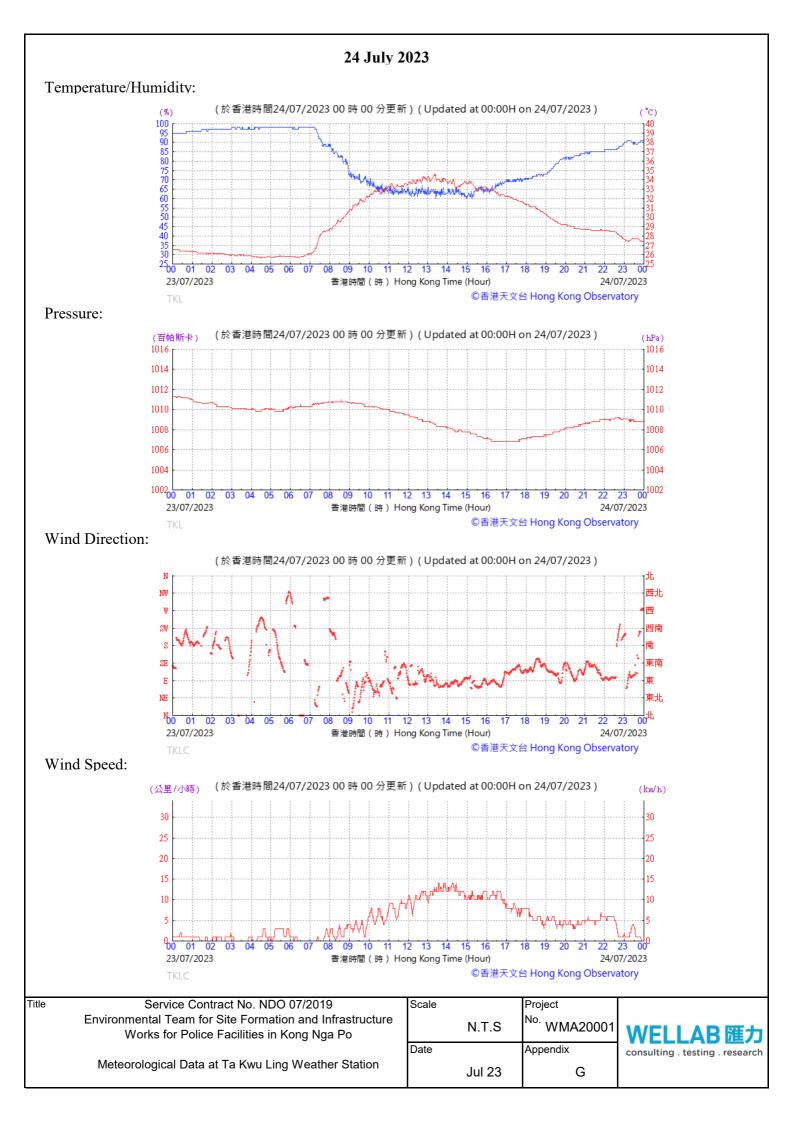


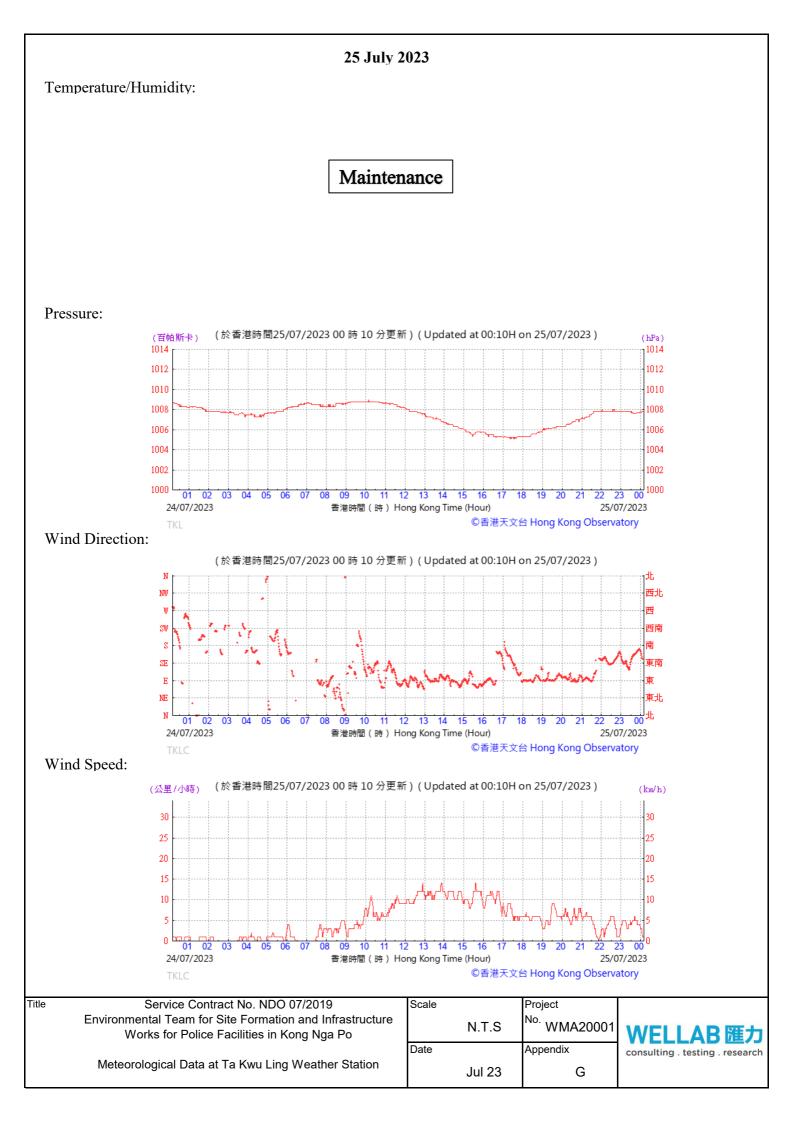


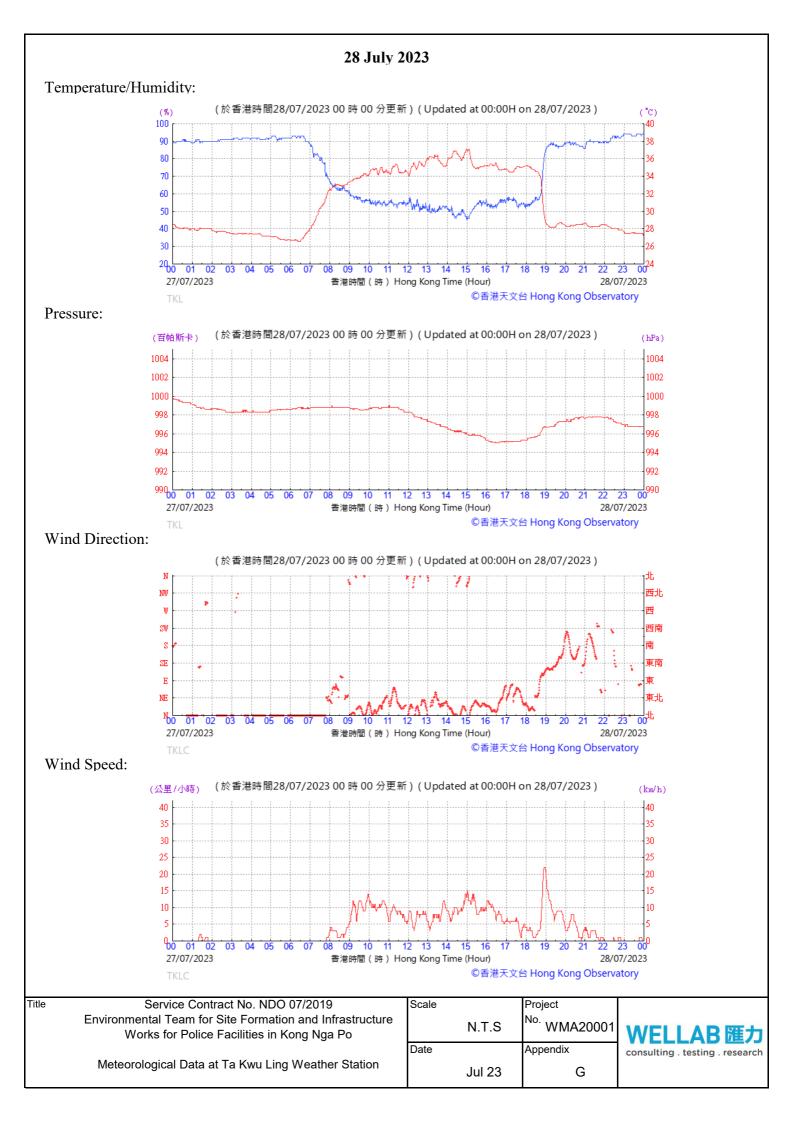


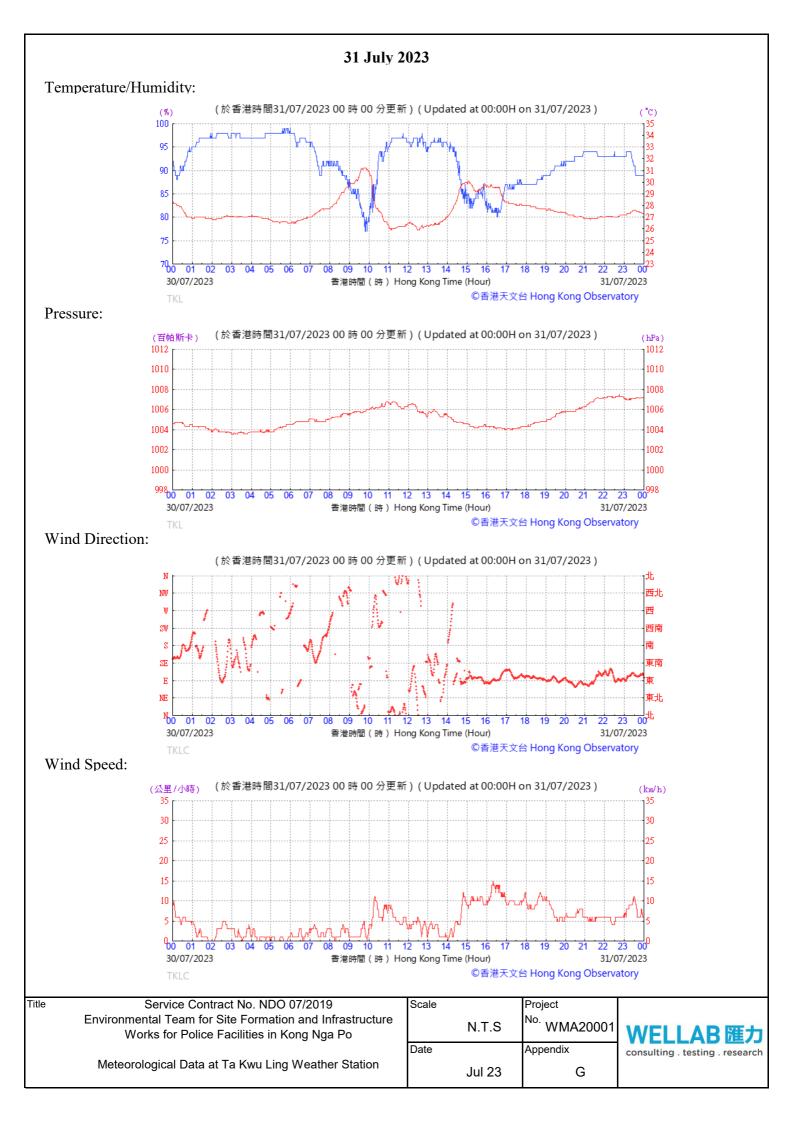








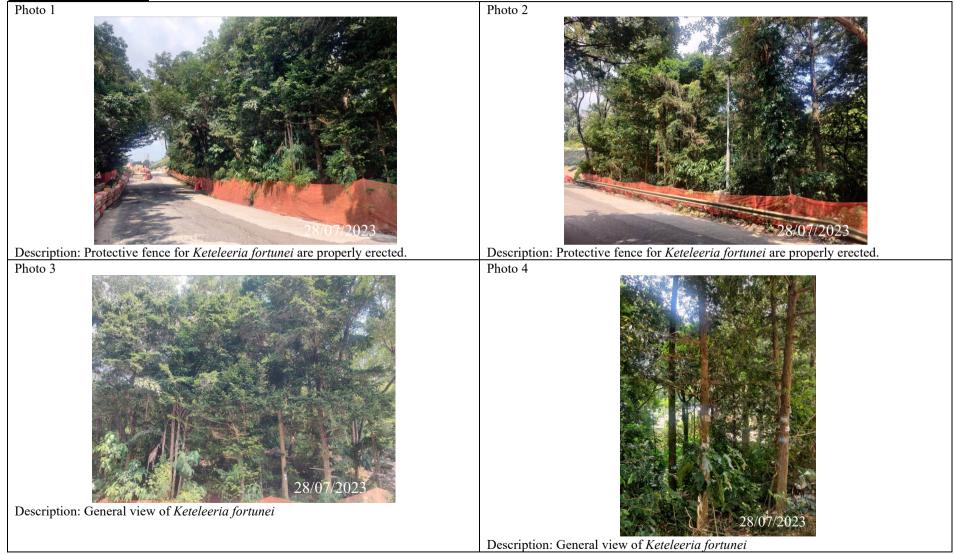




APPENDIX H1 ECOLOGICAL MONITORING RESULTS

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 28th July 2023

<u>1. Keteleeria fortunei</u>



Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 28th July 2023

2. Undersized seedling of Aquilaria sinensis

Photo 5



						Audit Re	ef. No	230728
Contra	act	Service Contract No. NDO 07/2019	Env. Team		Wellab Li	mited		
		Environmental Team for Site Formation and		ep.	AECOM Acuity Sustainability Consulting Limited			
		Infrastructure Works for Police Facilities in	IEC					ing Limited
		Kong Nga Po						
Inspect	od By	ET Auditor: Ivy Tam	Inspection Date		28 July 2	023		
Inspect	icu by	Supervisor's Rep.: Mr. Andy Cheng	Inspection Date Time Period		9:00 - 9:4			
		IEC: Mr. Tandy Tse	Thine T eriou					
Dort A	Wa	ather						
Part A Condit		Sunny Fine Overcast Drizzle	Rain	<u> </u>	Storm	Hazy		
Tempe			Tum	L	Storm	11029		
Humid		High (RH>90%) Moderate (90%>RH>50%)	Low (F	RH<50%	ó)			
Wind		Calm Light Breeze Strong						
D (D		N/A o	r not observed	Yes	No	Follow-up	N/C	Remarks
Part B	<u>Brainea</u>	insianis						
1.1	Are the p	lants' health conditions satisfactory?						
1.2	Are trans	planted plants on site protected carefully?	\checkmark					
1.3	Are the te	emporary protective fence properly erected and maintained?	\checkmark					
1.4	Are the p	lant protection zone set 1m from the plants?	\checkmark					
1.5	Are all gr	assed and planted area kept free from weeds/unwanted plants?	\checkmark					
1.6	Is compa	ction of the soil avoided for the plants?	\checkmark					
1.7	Are litter	/ unwanted material removed within the planting area?	\square					
1.8	Are equip	pment or stockpile placed outside the protection zone?	\checkmark					
1.9		debris or construction materials deposited around and against the trunk as this causes bark damage avoided?	\checkmark					
1.10	Are fixin	gs driven into plants avoided?	\checkmark					
1.11	Are the p signs avo	lants used for anchoring or winching purposes or for the display of ided?	\checkmark					
1.12		ire lit below the branches and petrol, oil or caustic substances stored plants avoided?	\checkmark					
1.13	Are all pl	ants kept free from pest, disease or fungal infection?	\checkmark					
1.14	Are there	enough area for growth and development of plant roots?	\checkmark					
1.15a	Is exposu	re of plant roots avoided?	\checkmark]			
1.15b	If not, we	ere broken off or rotting of roots avoided?	\checkmark					

Note: 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 202. The post-transplantation maintenance and monitoring works for Brainea insignis and Spiranthes sinensis were conducted under Contract No. SSK509 (FEP no.: FEP-01/510/2016)) starting from April 2023.

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks	
2.	<u>Spiranthes sinensis</u>				- -			
2.1	Are the plants' health conditions satisfactory?	\checkmark						
2.2	Are transplanted plants on site protected carefully?	\checkmark					<u> </u>	
2.3	Are the temporary protective fence properly erected and maintained?	\checkmark						
2.4	Are the plant protection zone set 1m from the plants?	\checkmark						
2.5	Are all grassed and planted area kept free from weeds/unwanted plants?	\checkmark						
2.6	Is compaction of the soil avoided for the plants?	\checkmark						
2.7	Are litter/ unwanted material removed within the planting area?	\checkmark						
2.8	Are equipment or stockpile placed outside the protection zone?	\checkmark					<u> </u>	
2.9	Are soil, debris or construction materials deposited around and against th of a plant as this causes bark damage avoided?	e trunk						
2.10	Are fixings driven into plants avoided?	\checkmark						
2.11	Are the plants used for anchoring or winching purposes or for the display signs avoided?	v of						
2.12	Are the fire lit below the branches and petrol, oil or caustic substances sto near the plants avoided?	ored						
2.13	Are all plants kept free from pest, disease or fungal infection?	\checkmark						
2.14	Are there enough area for growth and development of plant roots?	\checkmark						
2.15a	Is exposure of plant roots avoided?	\checkmark						
2.15b	If not, were broken off or rotting of roots avoided?	\checkmark						
3.	<u>Keteleeria fortunei</u>							
3.1	Are the trees' health conditions satisfactory?		\checkmark				except F-0072, F-0052 id in the previous month)	lentified dead
3.2	Are existing trees to be retained on site protected carefully?		\checkmark					
3.3	Are the temporary protective fence properly erected and maintained?		\checkmark					
3.4	Are the trees protection zone set 1m from the trees?		\checkmark					
3.5	Are all grassed and planted area kept free from weeds/unwanted plants?	\checkmark						
3.6	Is compaction of the soil avoided for the trees?		\checkmark					
3.7	Are litter/ unwanted material removed within the planting area?		\checkmark					
3.8	Are equipment or stockpile placed outside the protection zone?		\checkmark					
3.9	Are soil, debris or construction materials deposited around and against th of a trees as this causes bark damage avoided?	e trunk	\checkmark					
3.10	Are fixings driven into trees avoided?		\checkmark					
3.11	Are the trees used for anchoring or winching purposes or for the display avoided?	of signs	\square					
3.12	Are the fire lit below the branches and petrol, oil or caustic substances sto near the trees avoided?	ored	\checkmark					
3.13	Are all trees kept free from pest, disease or fungal infection?		\checkmark				except F-0081 (in	ternal decay)
3.14	Are there enough area for growth and development of tree roots?		\checkmark					
3.15a	Is exposure of tree roots avoided?	\checkmark						
3.15b	If not, were broken off or rotting of roots avoided?	V						
3.16	Are wounds/mechanical injuries avoided on tree trunk?		\checkmark				except F-0002, F-0004, F with hard pruned by othe	-0007 r parties
3.17	Are leaning of trees avoided?							
3.18	Are dead/detached branches avoided?		\Box				except F-0002, F-000 with hard pruned by o	
3.19	Are decay/cavity avoided on tree trunks?							
		LAND LAND	·	·	·	·		

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

Follow-up for the Previou	s Site Audit on Date: 23 Ju	N/A or not observed	Yes	No	Follow-up N/C	Remarks
Is the situation in item	improved/rectified?]
Is the situation in item	improved/rectified?]
Is the situation in item	improved/rectified?]
Is the situation in item	improved/rectified?]
Is the situation in item	improved/rectified?]
Is the situation in item	improved/rectified?]
Is the situation in item	improved/rectified?]
Is the situation in item	improved/rectified?]
Is the situation in item	improved/rectified?]
Is the situation in item	improved/rectified?]

Remarks/Observations

D brotection fience was observed propuly erected and mointained surrounding the trees (plants.
(a) No construction activities was observed at the location of the flore spears of concention interest.

Signatures:

ET Auditor (Name: (Date: 28 17/23 IEC Auditor (Name: Tandy Tse (Date:) 28/7/2023

Supervisor's (Name: (Date:)

Contractor's Representative (Name: Ulu Aco (Date: 17/23 28)

Form 001

APPENDIX H2 IMPLEMENTATION SCHEDULE OF MITIGATION MEASURES IN DETAILED VEGETATION SURVEY REPORT AND TRANSPLANTATION PROPOSAL FOR AQUILARIA SINENSIS

Recommended Mitigation Measures	Objective of the Measures	Referencetoparagraph(s)inthisDetailedVegetation	Implementation Status	Remarks
		Survey Report		
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.	-	Refers to para(s) 4.11 of the Detailed Vegetation Survey Report		Detailed vegetation survey was conducted from 28 th February to 6 th March 2020 prior to commencement of site construction works. 2 individuals of <i>Aquilaria sinensis</i> were found within the work area of proposed Kong Nga Po Road upgrading works and 1 individual was found within the work area for site formation works. These 3 individuals of <i>Aquilaria sinensis</i> identified in works areas were transplanted to receptor site from 3 rd to 19 th October 2020 according to the approved transplantation proposal prior to commencement of site
				construction works.
ProtectionofPlantSpeciesofConservationImportancepriortoSite		Refers to para(s) 4.9 and 4.10 of	^	a) The 3 individuals of <i>Aquilaria</i> sinensis identified in works areas

Recommended Mitigation Measures	Objective of the Measures	Referencetoparagraph(s)inthisDetailedVegetationSurvey Report	Implementation Status	Remarks
 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. 		the Detailed Vegetation Survey Report		 were transplanted to receptor site from 3rd to 19th October 2020 according to the approved transplantation proposal prior to commencement of site clearance works. b) No site clearance works was commenced before the transplantation works completed.
Temporary Protective Fence for Flora Species of Conservation Interest / Retained Tree a) To erect a temporary protective fence enclosing the flora species of	flora species of conservation importance / retained tree from	Refers to para(s) 4.4 and 4.11 of the Detailed Vegetation Survey Report	^	 a) A temporary protective fence has been properly erected enclosing the 3 individuals of <i>Aquilaria sinensis</i>. b) A protection zone at least 1m from <i>Aquilaria sinensis</i> was set up and

Recommended Mitigation Measures	Objective of the Measures	Referencetoparagraph(s)inthisDetailedVegetationSurvey Report	Implementation Status	Remarks
detailed vegetation survey.b) To set up a protection zone at least 1m from the plant / retained tree and erect	sure that the flora species of conservation interest / retained tree are not affected by the construction activities of the Project			robust, bright-coloured fencing of 1.5m in height was also erected to protect the 3 individuals of <i>Aquilaria</i> <i>sinensis</i> .
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.	To avoid potential impact on flora species of conservation importance / retained tree from construction activities such as materials storage; To make sure that the flora species of conservation interest / retained tree are not affected by the construction activities of the Project	Refers to para(s) 4.4 and 4.11 of the Detailed Vegetation Survey Report	^	a) 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. In addition, monthly monitoring of 3 individuals of <i>Aquilaria sinensis</i> was conducted during the construction phase by ET to

Recommended Mitigation Measures	Objective of the Measures	Referencetoparagraph(s)inthisDetailedVegetationSurvey Report	Implementation Status	Remarks
				 make sure that the flora species of conservation interest are not affected by the construction activities of the Project. No construction activity was observed within the area of 3 individuals of <i>Aquilaria sinensis</i>. b) The temporary protective fence during the monthly monitoring was also inspected. Temporary protective fence was properly erected and maintained for the 3 individuals of <i>Aquilaria sinensis</i>.
OtherProtectionMeasuresforFloraSpeciesofConservationInterest/Retained Tree / Vegetated Areas	To avoid potential impact on Flora Species of Conservation Interest / Retained Tree /	Refers to para(s) 4.11 of the Detailed	^	A 1.5m in height, robust, bright-coloured temporary protective fence and 1m protection zone has been properly set up
a) All works should be confined within the site boundary.	Vegetated Areas from	Vegetation Survey Report		enclosing the 3 individuals of <i>Aquilaria</i> sinensis. No construction activity was

Recommended Mitigation Measures	Objective of the Measures	Reference to	Implementation	Remarks
		paragraph(s) in	Status	
		this Detailed		
		Vegetation		
		Survey Report		
b) Access of site staff should be controlled.	construction activities of the			observed within the area of 3 individuals
c) Care should be taken to prevent	Project			of Aquilaria sinensis.
trees/plants being damaged by				The guidelines (a to j) have been
mechanical equipment or stockpile both				followed to protect the 3 individuals of
during site clearance works and				Aquilaria sinensis.
construction works.				1
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				

The Permit Holder and any person constructing (*or "operating" as the case may be*) the Project shall fully implement all mitigation measures in this Plan/Report. Key measures are included in the Implementation Schedule (IS) below for focusing on key issues and easier checking. However, all measures in this Plan/Report, whether included in the IS or not, shall be fully carried out.

Recommended Mitigation Measures	Objective of the Measures	Reference to paragraph(s) in this Detailed Vegetation Survey Report	Implementation Status	Remarks
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 and properly implemented

Recommended Mitigation Measures	Objective of the Measures	Reference to	Implementation Status	Remarks
		paragraph(s) in this	~~~~~~	
		Transplantation		
		Proposal		
Identification of Plant Species of	To identify the plant species of	Refers to para(s) 5.1	^	Detailed vegetation survey was conducted
Conservation Importance to be	conservation importance and	of the Transplantation		from 28th February to 6th March 2020 prior to
Retained / Transplanted	ensure no plant species of	Proposal		commencement of site construction works. 2
To mark trees/plants proposed to be	conservation importance /			individuals of Aquilaria sinensis were found
retained and to be transplanted on the	retained tree will be affected.			within the work area of proposed Kong Nga
layout plan prior to commencement of				Po Road upgrading works and 1 individual
site construction works.				was found within the work area for site
				formation works. These 3 individuals of
				Aquilaria sinensis identified in works areas
				were transplanted to receptor site from 3 rd to
				19th October 2020 according to the approved
				transplantation proposal prior to
				commencement of site construction works.
Protection of Plant Species of	To make sure that the flora	Refers to para(s) 2.11	^	a) The 3 individuals of Aquilaria sinensis
Conservation Importance prior to	species of conservation	and 2.12 of the		identified in works areas were
Site Clearance / Transplantation	interest are not affected by the			transplanted to receptor site from 3 rd to

Recommended Mitigation Measures	Objective of the Measures	Reference to	Implementation Status	Remarks
		paragraph(s) in this Transplantation		
		Proposal		
Works	site clearance works of the	Transplantation		19th October 2020 according to the
a) No site clearance shall be started at	Project	Proposal		approved transplantation proposal prior
the locations of flora species of				to commencement of site clearance
conservation interest until the				works.
transplantation works completed.				b) No site clearance works was commenced
b) Set up buffer zone to enhance the				before the transplantation works
protection of flora species of				completed.
conservation importance to be				
preserved / transplanted including				
the proposed location for				
transplantation when the site				
clearance works shall commence				
before the transplantation works				
completed.				
Temporary Protective Fence for	To avoid potential impact on	Refers to para(s) 2.7,	^	a) A temporary protective fence has been
Flora Species of Conservation	flora species of conservation	4.41 and 5.1 of the		properly erected enclosing the 3
Interest / Retained Tree	importance / retained tree from	Transplantation		individuals of Aquilaria sinensis.
a) To erect a temporary protective fence	construction activities such as	Proposal		

Recommended Mitigation Measures	Objective of the Measures	Reference to	Implementation	Remarks
		paragraph(s) in this	Status	
		Transplantation		
		Proposal		
enclosing the flora species of	materials storage; To make			b) A protection zone at least 1m from
conservation interest identified	sure that the flora species of			Aquilaria sinensis was set up and robust,
under the detailed vegetation survey.	conservation interest /			bright-coloured fencing of 1.5m in height
b) To set up a protection zone at least	retained tree are not affected			was also erected to protect the 3
1m from the plant / retained tree and	by the construction activities			individuals of Aquilaria sinensis.
erect robust, bright-coloured fencing	of the Project			-
of 1.5m in height.				
Maintenance of the Protection Zone	To avoid potential impact on	Refers to para(s) 2.7,	^	a) Post-transplantation monitoring was
for Flora Species of Conservation	flora species of conservation	4.41 and 5.1 of the		conducted once per week in the first three
Interest / Retained Tree	importance / retained tree from	Transplantation		months (October 2020 to January 2021)
a) Monthly monitoring of flora species	construction activities such as	Proposal		and once per month during the 12-month
of conservation interest identified in	materials storage; To make			establishment period and the post-
the detailed vegetation survey	sure that the flora species of			establishment period until the end of
should be conducted.	conservation interest /			construction phase of the Project. In
b) To inspect the temporary protective	retained tree are not affected			addition, monthly monitoring of 3
fence whether it is properly erected	by the construction activities			individuals of Aquilaria sinensis was
and maintained during construction.	of the Project			conducted during the construction phase

Recommended Mitigation Measures	Objective of the Measures	Reference to paragraph(s) in this	Implementation Status	Remarks
		Transplantation		
		Proposal		
				by ET to make sure that the flora species
				of conservation interest are not affected by
				the construction activities of the Project.
				No construction activity was observed
				within the area of 3 individuals of
				Aquilaria sinensis.
				b) The temporary protective fence during the
				monthly monitoring was also inspected.
				Temporary protective fence was properly
				erected and maintained for the 3
				individuals of Aquilaria sinensis.
Post-transplantation Monitoring	To allow early detection of the	Refers to para(s) 4.38	^	Post-transplantation monitoring was
a) Weekly post-transplantation	growth status of transplanted	to 4.40 and 4.42 of the		conducted once per week in the first three
monitoring of transplanted species	species, sign of construction	Transplantation		months (October 2020 to January 2021) and
in the first three months and	activity within and nearby the	Proposal		once per month during the 12-month
monthly afterwards.	receptor site, and any			establishment period and the post-
	environmental change of the			establishment period until the end of

Recommended Mitigation Measures	Objective of the Measures	Reference to	Implementation	Remarks
		paragraph(s) in this	Status	
		Transplantation		
		Proposal		
	receptor site.			construction phase of the Project. No
				construction activity was observed within the
				area of 3 individuals of Aquilaria sinensis.
				Due to the poor health condition of
				transplanted Aquilaria sinensis, the
				monitoring frequency was increased to bi-
				weekly in the period between Nov 2021 to
				July 2022 upon recommended by ET and IEC.
Maintenance of Transplanted Species	To allow health growth of the	Refers to para(s) 4.43	^	Maintenance works were conducted
a) To keep the soil moist by watering	transplanted species.	to 4.46 of the		for the first year of establishment to
the receptor sites properly and		Transplantation		allow health growth of the
adequately.		Proposal		transplanted species. In view of the
b) To apply mulches on the soil surface				condition of transplanted individuals
over the plant root system, if				after the 12-month establishment
required.				period, maintenance works have been
c) To remove unwanted weeds found				extended during the Post-
in receptor sites.				establishment Period until the end of

Recommended Mitigation Measures	Objective of the Measures	Reference to	Implementation	Remarks
		paragraph(s) in this	Status	
		Transplantation		
		Proposal		
				Construction Phase. Watering was
				conducted in daily practice subject to
				the site condition during the first three
				months after the transplantation and
				during dry season. Watering frequency
				was 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 were also conducted if
				required.
Other Protection Measures for Flora	To avoid potential impact on	Refers to para(s) 5.1	^	A 1.5m in height, robust, bright-coloured
Species of Conservation Interest /	Flora Species of Conservation	of the Transplantation		temporary protective fence and 1m protection
Retained Tree / Vegetated Areas	Interest / Retained Tree /	Proposal		zone has been properly set up enclosing the 3
a) All works should be confined within	Vegetated Areas from	-		individuals of Aquilaria sinensis. No
the site boundary.	construction activities of the			construction activity was observed within the
b) Access of site staff should be	Project			area of 3 individuals of Aquilaria sinensis.

Recommended Mitigation Measures	Objective of the Measures	Reference to	Implementation	Remarks
		paragraph(s) in this	Status	
		Transplantation		
		Proposal		
controlled.				The guidelines (a to j) have been followed
c) Care should be taken to prevent				to protect the 3 individuals of Aquilaria
trees/plants being damaged by				sinensis.
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				

The Permit Holder and any person constructing (*or "operating" as the case may be*) the Project shall fully implement all mitigation measures in this Plan/Report. Key measures are included in the Implementation Schedule (IS) below for focusing on key issues and easier checking. However, all measures in this Plan/Report, whether included in the IS or not, shall be fully carried out.

Recommended Mitigation Measures	Objective of the Measures	Reference to	Implementation	Remarks
		paragraph(s) in this	Status	
		Transplantation		
		Proposal		
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 and properly implemented

APPENDIX I EVENT ACTION PLANS

Appendix I:

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

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

	ACTION				
EVENT	ЕТ	IEC	ER	CONTRACTOR	
	8. If exceedance stops, cease additional monitoring.				
LIMIT LEVEL					
1.Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; and Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and the ER informed of the results. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; and Monitor the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; and Ensure remedial measures properly implemented. 	 Take immediate action to avoid furthrt exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; and Amend proposal if appropriate. 	
2.Exceedance for two or more consecutive samples	 Notify IEC, the ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss amongst ER, ET, and Contractor on the potential remedial actions; 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with IEC, agree with the Contractor on the remedial measures to be implemented; 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; 	

EXTENIT	ACTION						
EVENT	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 	 4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and 5. Monitor implementation of 	 4. Ensure remedial measures properly implemented; and 5. If exceedance continues, consider what portion of the work is responsible and instruct the 	 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. 			
	of the results; and 8. If exceedance stops, cease additional monitoring.	remedial measures.	Contractor to stop that portion of work until the exceedances is abated.				

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

EVENT		АСТ	TION	
	ЕТ	IEC	ER	CONTRACTOR
Action Level	 Notify ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the IEC and Contractor on remedial measures required; and Increase monitoring frequency to check mitigation effectiveness. 	 Review the monitoring data submitted by the ET; Review the proposed remedial measures by the Contractor and advise ER; and Advise the ER on the effectiveness of the proposed remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measure to be implemented: and Supervise the implementation of remedial measure. 	 Submit noise mitigation proposals to IEC and ER; and Implement noise mitigation proposals.
Limit Level	 Inform IEC, ER and Contractor and EPD; Repeat measurements to confirm findings; Increase the monitoring frequency; Identify source and investigate the cause of exceedance; Carry out analysis of Contractor's working procedures; Discuss with the IEC, Contractor and ER on 	 Discuss amongst the ER, ET, and Contractor on the potential remedial actions; and Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 	 Confirm receipt of notification of failure in writing; Notify the Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; and If exceedance continues, consider 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to the IEC and ER within 3 working days of notification; Implement the agreed proposals; Submit further proposal if problem still not under control; and Stop the relevant portion of works as

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

WMA20001\App I - Event Action Plan

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

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

EVENT		АСТ	TION	
	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.CheckContractor'sworking method.Discusswith ET andContractor on possibleremedial measures.AdviseER oneffectivenessofproposedremedialmeasures.Checkimplementationof remedial measures.	Notify Contractor. Ensure remedial measures are properly implemented	Amendworkingmethodstopreventrecurrenceofnonconformity.Rectifydamageandundertakeadditionalaction 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.	Checkmonitoringreport.CheckContractor'sworkingmethod.Discuss with ET andContractor on possiblecontractor on possibleneedial measures.AdviseERoneffectivenessofproposedremedialmeasures.Superviseimplementationofremedial measures.of	Notify Contractor. Ensure remedial measures are properly implemented.	Amend working methods to prevent recurrence of nonconformity. Rectify damage and undertake additional action necessary.

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

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		roject related dance	No. of Exceedance related to the Construction Activities of this Contract		Cumulative No. of Exceedance	
		Action Level	Limit Level	Action Level	Limit Level	recorded	
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 Exceed to the Con Activities of t	Cumulative No. of Exceedance	
8		Action Level	Limit Level	Action Level	Limit Level	recorded
Noise	Leq(30 min.) dB(A)	0	0	0	0	7

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
Air Quality I	mpact – Const	ruction Phase					
3.91	2.2	Dust Control Measures	Construction Dust	Contractor	Project	Construction	
		To achieve compliance with the FSP, RSP and TSP criteria			construction site /	phase	
		during the construction phase, good practices for dust control			Duration of the		
		should be implemented to reduce dust impacts. The dust control			construction phase		
		measures are detailed as follows:			/ Prior to		
		• Use of regular water spraying (once every 1.25 hours or 8			commencement of		^
		times per day) to reduce dust emissions from heavy			operation		
		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.					
		Relevant dust control practices as stipulated in the Air Pollution					
		Control (Construction Dust) Regulation should be adopted:					
		Good Site Management					
		Good site management is important to help reduce					^
		potential air quality impact down to an acceptable level.					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		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.					
		Disturbed Parts of the Roads					
		• 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.					
		Exposed Earth					
		• Exposed earth should be properly treated by compaction,					^
		hydroseeding, vegetation planting or seating with latex,					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		vinyl, bitumen within six months after the last					
		construction activity on the site or part of the site where					
		the exposed earth lies.					
		Loading, Unloading or Transfer of Dusty Materials					
		• All dusty materials should be sprayed with water					^
		immediately prior to any loading or transfer operation so					
		as to keep the dusty material wet.					
		Debris Handing					
		• 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.					
		Transport of Dusty Materials					
		• 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.					
		Wheel Washing					
		• Vehicle wheel washing facilities should be provided at					*
		each construction site exit. Immediately before leaving the					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		construction site, every vehicle should be washed to					
		remove any dusty materials from its body and wheels.					
		Use of Vehicles					
		• 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					
		entirely by clean impervious sheeting to ensure that the					
		dusty materials do not leak from the vehicle.					
		Site hoarding					
		• 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.					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
Noise Impact	– Constructio	on Phase		Γ	ſ	1	
4.4.6	3.2	Good Site Practice	Maintain good site practice	Contractor	Within the	Construction Phase	
		Good site practice and noise management can significantly	to minimise / avoid		Project site /		
		reduce the impact of construction site activities on nearby NSRs.	construction noise impact		During		
		The following package of measures should be followed during			construction		
		each phase of construction:			phase / Prior to		
		• Only well-maintained plant to be operated onsite and			commencement		^
		plant should be serviced regularly during the construction			of operation.		
		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.					
4.4.6	3.2	Adoption of QPME	Minimise/ avoid	Contractor	Within the	Construction Phase	
1.1.0	5.2	QPME should be adopted as far as applicable.	construction noise	Contractor	within the	Construction I liase	^

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
4.4.6	3.2	Use of Movable Barriers	impacts to the		Project site /		
		• Movable noise barriers should be placed along the active	surrounding NSRs		During		^
		works area and mobile plants to block the direct line of			construction		
		sight between PME and the NSRs.			phase / Prior to		
4.4.6		Use of Noise Enclosure/ Acoustic Shed			commencement		
		• Noise enclosure or acoustic shed should be used to cover			of operation.		N/A
		stationary PME such as air compressor and generator.					
4.4.6		Use of Noise Insulating Fabric					^
		• Noise insulating fabric can also be adopted for certain					
		PME (e.g. pilling machine etc.).					
Water Qualit	y Impact – Coi	nstruction Phase					
5.6.1.1	4.2	General Construction Activities	Maintain good site practices	Contractor	Within the Project	Construction Phase	
		The following measures should be implemented:	to avoid pollution of water		site / During		
		Construction waste, debris and refuse generated on-site	courses		construction phase		^
		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					^

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		excavated material should be covered when not in use to					
		reduce the potential for water pollution.					
5.6.1.2	4.2	Construction Site Runoff	Minimise / control	Contractor	Within the Project	Construction Phase	
		The site practices outlined in ProPECC Note PN 1/94 should be	construction site runoff to		site / During		
		followed as far as practicable in order to minimise surface runoff	avoid pollution of water		construction phase		
		and the chance of erosion. The following measures are	courses				
		recommended:					
		• 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					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		rainstorms are forecast.					
		• 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					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		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.					
		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).					
5.6.1.3	4.2	Accidental Spillage of Chemicals	Prevent accidental discharge	Contractor	Within the Project	Construction phase	
		In accordance with the Waste Disposal (Chemical Waste)	of chemicals into the		site / During		
		(General) Regulation (Cap 354C), the following measures should	surrounding environment		construction phase		
		be implemented:					
		• 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					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		facilities such as oil and grease traps.					
		• 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.					
5.6.1.4	4.2	Sewage from Construction Workforce	Prevent discharge of sewage	Contractor	Within the Project	construction phase	
		Portable toilets should be available throughout the construction	into the surrounding		site / During		^
		phase and regularly maintained, collected and disposed by a	environment		construction phase		
		licensed waste collector to a public sewage treatment works for					
		suitable treatment.					
5.6.1.5	4.2	Construction Works in Close Proximity to Inland	Minimise/ control	Contractor	Within the Project	construction phase	
		Watercourses	construction site discharges		site / During		
		Mitigation measures such as such as temporary diversions of	to avoid pollution of nearby		construction phase		
		existing drainage culverts/ watercourses before construction	watercourses				
		commences and during construction should be implemented, in					
		addition to those listed in ProPECC Note PN1/94 Construction					

Appendix K – Implementation Schedule and Recommended Mitigation Me	easures
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EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		Site Drainage and ETWB TC (Works) No. 5/2005 Protection of					
		Natural Streams/rivers from Adverse Impacts Arising from					
		Construction Works. Measures include the following:					
		• Stockpiling of construction materials and spoil, should be					N/A
		properly covered and located away from any natural					
		stream/river.					
		• Construction works close to the inland waters should be					N/A
		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					N/A
		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.					
Waste Manag	gement Implice	ations – Construction Phase					
7.5.1.1	6.2	Good Site Practice	Implement good site	Contractor	Project	Construction phase	
		Recommendations for good site practices during the construction	practices to minimize waste		construction site /		
		activities include:	generation		Throughout		
		• Nomination of an approved person, such as a site			construction stage		^
		manager, to be responsible for good site practices,			/ Until completion		
		arrangements for collection and effective disposal to an			of all construction		

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		appropriate facility, of all wastes generated at the site			activities		
		• 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					٨
		such that adverse environmental impact from transporting					
		the inert or non-inert C&D materials is not anticipated					
7.5.1.2	6.2	Waste Reduction Measures	Implement good	Contractor	Project	Construction phase	

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		Good management and control can prevent the generation of a	management and control to		construction site /		
		significant amount of waste. Waste reduction is best achieved at	minimize waste generation		Throughout		
		the planning and design stage, as well as by ensuring the			construction stage		
		implementation of good site practices. Recommendations to			/ Until completion		
		achieve waste reduction include:			of all construction		
		• Sort non-inert C&D materials to recover any recyclable			activities		^
		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					
7.5.1.3	6.2	Inert and Non-inert C&D Materials	Minimise impacts resulting	Contractor	Project	Construction phase	
		In order to minimise impacts resulting from collection and	from collection and		construction site /		^
		transportation of inert C&D materials for off-site disposal, the	transportation of inert C&D		Throughout		

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		inert C&D materials should be reused on-site as fill material as	materials		construction stage		
		far as practicable. In addition, inert C&D materials generated			/ Until completion		
		from excavation works could be reused as fill materials in local			of all construction		
		projects that require public fill for reclamation.			activities		
		The surplus inert C&D materials will be disposed of at the					^
		Government's PFRFs for beneficial use by other projects in					
		Hong Kong.					
		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.					
		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					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		Management on Construction Site					
7.5.1.4	6.2	Chemical Waste	Implement good practices to	Contractor	Project	Construction phase	
		If chemical wastes are produced at the construction site, the	avoid chemical waste		construction site /		^
		Contractor will be required to register with the EPD as a	impact.		Throughout		
		chemical waste producer and to follow the guidelines stated in			construction stage		
		the"Code of Practice on the Packaging Labelling and Storage of			/ Until completion		
		Chemical Wastes". Good quality containers compatible with the			of all construction		
		chemical wastes should be used, and incompatible chemicals			activities		
		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.					
		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					

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
7.5.1.5	6.2	General Refuse	Implement good practices to	Contractor	Project	Construction phase	
		General refuse should be stored in enclosed bins or compaction	avoid odour nuisance or		construction site /		^
		units separated from inert C&D materials. A reputable waste	pest/vermin problem and		Throughout		
		collector should be employed by the Contractor to remove	waste impact.		construction stage		
		general refuse from the site, separately from inert C&D			/ Until completion		
		materials. Preferably an enclosed and covered area should be			of all construction		
		provided to reduce the occurrence of 'windblown' light material.			activities		
Land Contam	ination – Con	struction Phase		·			
8.6.1	7.2	In any case where contaminated soil is identified after the	Assessment is required for	Contractor	Project	Design phase	N/A
		commencement of works, a Contamination Assessment Plan	EPD approval in any case		construction site /		
		(CAP) is required to be prepared for EPD's endorsement prior to	where contaminated soil is		Before		
		the site investigation. The Contamination Assessment Report	identified		construction stage		
		(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.					
8.6.1	7.2	The following mitigation measures are proposed for	Minimise impacts resulting	Contractor	Project	Construction phase	

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		contaminated material excavation and transportation of	from excavation and		construction site /		
		contaminated materials (if any), in order to minimise the	transportation in the of		Throughout		
		potentially adverse effects health and safety of construction	contaminated materials		construction stage		
		workers and impacts arising from the disposal of potentially			/ Until completion		
		contaminated materials:			of all construction		N/A
		• To minimise the chance for construction workers to come			activities		
		into contact with any contaminated materials, bulk					
		earth-moving excavation equipment should be employed;					N/A
		• 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;					N/A
		• Stockpiling of contaminated excavated materials on site					
		should be avoided as far as possible;					N/A
		• The use of any contaminated soil for landscaping purpose					
		should be avoided unless pre-treatment was carried out;					N/A
		• Vehicles containing any excavated materials should be					
		suitably covered to reduce dust emissions and / or release					
		of contaminated wastewater;					N/A
		• Truck bodies and tailgates should be sealed to stop any					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		discharge;					N/A
		• 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;					N/A
		• Speed control for trucks carrying contaminated materials					
		should be exercised;					N/A
		• 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					N/A
		• Maintain records of waste generation, disposal quantities					
		and disposal arrangements.					
Ecological Imp	pact						
9.7.1	8.3	Temporary Protective Fence for Flora Species of	To avoid potential impact on	Contractor	Project	Construction phase	
		Conservation Interest	flora species of conservation		construction site /		
		During construction phase, erection and maintenance of a	interest from construction		Throughout		^
		temporary protective fence enclosing the flora species of	activities such as materials		construction stage		
		conservation interest identified under the detailed vegetation	storage;		/ Until completion		
		survey is recommended.	To make sure that the flora		of all construction		
		Monthly monitoring of any other flora species of conservation	species of conservation		activities		

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		interest identified in the detailed vegetation survey should be	interest are not affected by				
		conducted during the construction phase.	the construction activities of				
			the project.				
Golden-headea	l Cisticola (R	ecommended Mitigation Measures from Baseline Survey	Report of Golden-headed	Cisticola)			
-	-	The following mitigation measures are proposed for minimizing	Construction noise	Contractor	Project area –	Construction phase	
		noise impacts induced by construction works:			areas adjacent to		
		• Silencers or mufflers on well-maintained construction			sensitive receivers		N/A
		equipment should be utilized and properly maintained			/ During		
		during the construction program			construction phase		
		• 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					
-	-	The following mitigation measures are proposed for minimizing	To minimize the light	Contractor	Project area –	Construction phase	
		light impacts:	disturbance to avifauna		areas adjacent to		
		• Adjusting the outdoor lighting to lower intensity			sensitive receivers		^
		• Use of directional lighting to avoid light spill into			/ During		^
		sensitive areas			construction phase		
		• Control/timing of lighting periods of some facilities,					^
		particularly those close to the ecological sensitive					
		receivers					

Appendix K – Im	plementation	Schedule and	Recommended	Mitigation Measures

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
-	-	Drainage system	Prevent discharge of	Contractor	Project area –	Construction phase	
		• Proper drainage system should be installed to collect and	pollutant into the		areas adjacent to		^
		dispose rainwater	surrounding environment		sensitive receivers		
		• Installation of sediment/rubbish trapping facilities (e.g.			/ During		^
		catch pits or sand/silt traps to contain the increase in			construction phase		
		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	To avoid potential impact on	Contractor	Project area –	Construction phase	
		• Placement of stockpiling into designated area should be	Golden-headed Cisticola		areas adjacent to		^
		selected at disturbed area in order to minimize the			sensitive receivers		
		disturbance to wildlife			/ During		
		• Open fire should be strictly prohibited			construction phase		^
		• 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					

Appendix K – Im	plementation	Schedule and	Recommended	Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures?	Implementation Status
			address (What			(When)	
			Requirements)				
Landscape and	l Visual Impo	acts – Construction Phase		I	I	I	1
Table 10.11	Table	CM01: Trees / woodland within the Project Site which are	Preserve and protect	Contractor	Project area /	Design and	*
	9.1	unaffected by the works shall be protected and preserved during	existing trees		During design	construction phase	
		the detailed design stage and construction phase. The tree			stage /		
		preservation proposals shall be coordinated with the layout and			construction phase		
		design of the engineering and architectural works at detailed			/ Establishment		
		design stage for further retention of individual trees. The			Period		
		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.					
Table 10.11	Table	CM02: If removal of trees unavoidable due to construction	Preserve and protect	Contractor	Project area /	Design and	^
	9.1	impacts, trees will be transplanted where technically feasible in	existing trees		During design	construction phase	
		accordance with "Guidelines on Tree Transplanting" by DEVB			stage /		
		and HQ/GN/13 and HQ/GN/13 – Interim Guidelines for			construction phase		
		Tree Transplanting Works under Highways Department's			/ Establishment		
		Vegetation Maintenance Ambit where applicable.			Period		
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	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
	9.1	the landscape and visual impacts arising from the construction	visual impacts.		During design		
		activities are minimised. This includes the reduction of the extent			stage /		
		and location of working areas to avoid sensitive LRs, siting of			construction phase.		
		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.					
Table 10.11	Table	CM04: Replanting of existing / disturbed vegetation shall be	Maximise the mitigation	Contractor	Project area /	Construction phase	N/A
	9.1	undertaken as soon as technically feasible during the	effect of the planting to		During design		
		construction phase. The priority shall be areas at the periphery of	minimise landscape and		stage /		
		the site to ensure that proposed planting fulfils its role in	visual impacts.		construction phase		
		mitigating the predicted impacts including screening views of the			/ Establishment		
		proposals as early as possible during the operation phase.			Period		
Table 10.11	Table	CM05: Decorative screen hoarding will be erected along areas of	Minimise landscape and	Contractor	Project area –	Construction phase	^
	9.1	the construction works site boundary where the works site	visual impacts.		areas adjacent to		
		borders publically accessible routes and/or is close to visually			sensitive receivers		
		sensitive receivers (VSRs) to screen undesirable views of the			/ During		
		works site. It is proposed that the screening be compatible with			construction phase.		
		the surrounding environment and where possible, non-reflective,					
		recessive colours be used.					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Ion 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
Landscape and	Visual Impa	acts (Recommended Mitigation Measures from Landscape	e and Visual Mitigation Pla	an)			
-	_	 Tree protection and preservation 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. 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. 	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	*
-	-	Tree transplantation 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.	To preserve the trees with conservation interest which are unavoidably affected by the construction activities.	CEDD's Contractors	The location of three <i>Aquilaria</i> <i>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	Λ
-	-	Work area and temporary works area	To minimize the landscape	CEDD's and	CEDD: Along	Construction	^

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

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

Appendix K – Implementation Schedule and Recommended Mitigation Measures

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

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

Appendix K – Imp	lementation Sche	dule and Recomme	nded Mitigation Measures

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

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

Appendix K – Im	plementation	Schedule and	Recommended	Mitigation Measures

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to implement	Location of the	When to	Implementation
	Log	(What Measures)	recommended Measures	the measures?	measures	Implement the	Status
	Ref		& Main Concerns to	(Who)	(Where)	measures?	
			address (What			(When)	
			Requirements)				
		a. Green paving approach such as grass-crete or grass-grid to	hard paving		Police Facilitate	of ArchSD's	
		maximise the area of planting and reduce the area of hard paving			Site	Contracts	
		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.					
-	-	Light control (operation)	To minimize glare impact to	HKPF and HyD	HKPF: Within	Operation Stage	N/A
		a. Street and night time lighting glare will be controlled	adjacent VSRs during the		KNP Police		
			operation stage.		Facilitate Site		
					HyD: Along Kong		
					Nga Po Road		

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

Ref*	Proposed Construction	Location/Working Period	Major	Recommended Mitigation Measures	Photo Records (Partial)
EIA 5.6.1.2; EM&A Log 4.2	Method** Reinforced Concrete Structure Construction (Bridge Deck)	Kong Nga Po Road	Impacts Waste water pollution control	 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			Noise	 Well-planning of concreting works to prevent working in restricted hours Deploy Quality Powered Mechanical Equipment (QPME) if possible 	

Ref*	Proposed	Location/Working	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Construction	Period	Major		
	Method**		Impacts		
EIA	(Cont')	(Cont')	Working in	• Valid construction noise permit should	
4.4.6;	Reinforced	Kong Nga Po Road	Restricted	be obtained and displayed on site	
EM&A	Concrete		Hours	• In case of non-compliance with the	
Log	Structure			construction noise criteria, more	
3.2	Construction			frequent monitoring and action should	
	(Bridge			be carried out	
	Deck)				
					By main contractor at KNP road
EIA			Chemicals	• Chemical for concreting works should	
7.5.1.4;			for	be stored in designated area with proper	
EM&A			concreting	labelling and packing	
Log			works	• Designated location for residual	
6.2				concrete washout	By sub-contractor at KNP Road

Ref*	Proposed Construction	Location/Working Period	Anticipated Major	Recommended Mitigation Measures	Photo Records (Partial)
	Method**	1 CHOU	Impacts		
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	 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	 Deploy desilting/sedimentation devices for wastewater treatment prior to discharge Establish soil berm with retention pit to control water outflow 	By sub-contractor at KNP Road

Ref*	Proposed Construction	Location/Working Period	Anticipated Major	Recommended Mitigation Measures	Photo Records (Partial)
	Method**		Impacts		
EIA 4.4.6; EM&A Log 3.2	(Cont') Slope Upgrading Works	(Cont') Kong Nga Po Main Site Kong Nga Po Road	Noise	 Regular inspection and maintenance of plant and equipment in good condition Provide noise barriers for soil nailing works where near the sensitive receiver 	By sub-contractor at KNP Road
EIA			Ecology	• Provide training to frontline workers for	
10.11,			Concern	the conservative species	- PT
EM&A				• Provision of protective fence for the	
Log				conservative species	
9.4				• Regular inspection for concerned vegetation	By main contractor at KNP Main Site

Ref*	Proposed	Location/Working	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Construction Method**	Period	Major Impacts		
EIA Table 10.11 EM&A Table 9.1	(Cont') Slope Upgrading Works	(Cont') Kong Nga Po Main Site Kong Nga Po Road	Landscape and visual impact	 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 	By main contractor at KNP Road
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	 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 	By main contractor at KNP Road

Ref*	Proposed Construction	Location/Working Period	Anticipated Major	Recommended Mitigation Measures	Photo Records (Partial)
	Method**		Impacts		
EIA	(Con't)	(Con't)	Water	• Provide desilting/sedimentation devices	my million or and the
5.6.1.2; EM&A	Road and Associated	Kong Nga Po Main Site		for wastewater treatment before discharge	
Log 4.2	Works	Kong Nga Po Road			10.07.2023
					By main contractor at KNP Road
EIA 4.4.6; EM&A Log 3.2			Noise from roadworks	• Enclose the noisy part of machineries with noise isolating mats during hard surface breaking / for operating plants	
					By sub-contractor at KNP Road

Ref*	Proposed	Location/Working	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Construction	Period	Major		
	Method**		Impacts		
EIA	(Con't)	(Con't)	Chemical	• Drip tray and chemical spillage kit shall	
7.5.1.4;	Road and	Kong Nga Po Main	Waste	be provided on site	
EM&A	Associated	Site			
Log 6.2	Works	Kong Nga Po Road			RE (500 257) Re (500 257) Re (25 kg) 2 A A A A A A A A A A A A A A A A A A A
					By main contractor at KNP Road
EIA			Landscape	• Properly fenced off the conservative	
Table			and visual	species	
10.11			impact	• Properly implement temporary traffic	
EM&A				arrangement which control construction	
Table 9.1				area to minimize landscape and visual impacts	
					By main contractor at KNP Road

APPENDIX L WASTE GENERATION IN THE REPORTING MONTH

		Actual	Quantities of In	nert C&D Waste	Generated Mo	nthly		Actual Quantitie	es of C&D Waste	Generated Month	nly
Month	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 '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

		Actual	Quantities of In	nert C&D Waste	Generated Mo	nthly		Actual Quantitie	es of C&D Waste	Generated Mont	hly
Month	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 '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

		Actual	Quantities of I	nert C&D Waste	Generated Mo	nthly		Actual Quantitie	es of C&D Waste	Generated Montl	nly
Month	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 '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

		Actual	Quantities of I	nert C&D Waste	Generated Mo	nthly		Actual Quantitie	es of C&D Waste	Generated Mont	hly
Month	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 '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	6.16174	N/A	0.00000	0.37018	5.71394	0.00000	0.00000	0.00000	0.00000	0.00000	0.07762
Mar	1.48006	N/A	0.00000	0.00000	1.41025	0.00000	0.00000	0.00000	0.00000	0.00000	0.06981
Apr	0.64705	N/A	0.00000	0.00000	0.59785	0.00000	0.00000	0.00000	0.00000	0.00000	0.04921
May	0.61516	N/A	0.00000	0.00000	0.48302	0.00000	0.00000	0.00000	0.00000	0.00000	0.13215
Jun	0.93964	N/A	0.00000	0.00000	0.89660	0.00000	0.00000	0.00000	0.00000	0.00000	0.04303
Sub-Total	863.48415	0.00000	334.98767	400.04510	116.14764	5.61413	0.00000	0.00000	0.00000	0.00000	6.68960
Jul	1.55613	N/A	0.00000	0.00000	1.53049	0.00000	0.00000	0.00000	0.00000	0.00000	0.02564
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	865.04027	0.00000	334.98767	400.04510	117.67813	5.61413	0.00000	0.00000	0.00000	0.00000	6.71524

	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

APPENDIX M COMPLAINT LOG

Appendix M - Complaint Log

Reporting month: July 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.	undertaken the follow up action as follow:	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
	EPD Log Ref.	Location Kong Nga Po Road		Details of Complaint The complainant complained about the polluting effluent discharged from construction site, leading	Investigation / Mitigation Actionto the nearby residents during working hours as well as restricted hours.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.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.	Status
				to flooding and pollution problem.	 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: Provision of soil berm at edge near retaining wall DAM Bay 43-46 Setting up of wastewater treatment facilities near wheel washing bay 	

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					 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 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. 	
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 outflew from the site to the location of complaint was observed. Potential source of	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. Continuous improvement works on the temporary	
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.	 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. In addition, the Contractor has taken the following mitigation measures to minimize the water quality impact arising from the construction works: 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. The environmental condition of the site and the control of work will be continuously reviewed and monitored by the Supervisor, ET and IEC. 	

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.	 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. Upon receipt of the complaint, the Contractor had undertaken the follow up action as follow: 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. Nevertheless, the Contractor was reminded to fully implement the relevant noise mitigation measures according to the EM&A Manual on site , such as 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
					 increase awareness of their environmental responsibilities and minimize the noise impact to the nearby residents during working hours as well as restricted hours; 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.	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. Existing U-channel near slope toe had been covered	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					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.	
					 Upon receipt of the complaint, the Contractor had undertaken the follow up action as follow: 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.	up action as follow:	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					 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; o 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	 Noise mitigation measures have been implemented for sheet-piling works as below: 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. In addition, noise mitigation measures have been implemented for rock breaking activities as below: 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
					 soundproofing material; 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 	
					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. 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.	

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	 vehicles and plants leaving the works areas; the section before the site exits have been paved with backfall to prevent the wheel washing water 	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

Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
		GD0460 at Kong Nga Po Road		 Noise from construction activities that caused nuisance to public Vibration may cause damage to nearby structure Suspected muddy water discharged into private drainage 	 during the investigation as below: <u>Noise & Vibration</u> 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. 	

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					 Leq,T = 58.7dB(A) that no exceedance of noise level from the pre-boring works. 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. <u>Muddy Water Discharge</u> 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)	 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: no vibration was noticed during the site inspection at Works Area "RD-A" for the preboring 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 has already reduced the vibration transmission to the Sensitive Receiver The following additional measures were implemented by the Contractor: 	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					 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	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. 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. 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	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	Initial diamage.According to the investigation, Kong Nga Po RoadInvolves different road users besides the constructionSite under Contract No. ND/2018/01 including somWorkshops and container yards while they also haveInterfaces with the public traffic road and vehicle inand and mud broughtInterfaces with the public traffic road and vehicle inand-out activities.Referring to the site inspection, no sand and mud at thesite exit points were observed. Wheel washing measurewas provided and wheel washing has beenimplementing at site exit points. As a preventivemeasures, workers performed road washing regularitto maintain cleanliness at interfaces.Based on the site condition and observationabovementioned, the complaint is considered nonproject-related.		Closed
C-016	N/A	Works area "RD-D" at Kong Nga Po Road	6 th Mar 23	The complainant complained about dust generated from construction activities without proper dust suppression measures	 ities 	

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					the dump truck to a practical minimum to prevent construction dust generation. According to the video provided by the complainant, the complaint is project related.	
C-017	N/A	Works area "Feature M" at Kong Nga Po Road	16 th Mar 23	The complainant complained about dust generated from construction sites	 According to the video provided by the complainant, the suspected location of complaint was the works area of Platform A under management of another contract where above the works area of Feature M under Contract No. ND/2018/01. 1) Dust was generated from works area at Platform A which is under management of another Contract. 2) Dust generated from works area at Platform A of another contract passing the works area of Feature M under Contract No. ND/2018/01where below Platform A. 3) No construction dust was observed at works area of Feature M during inspection on 18 March 2023. 4) Regular water spraying on exposed earth surfaces has been implementing for dust suppression for the works area of Feature M under Contract No. ND/2018/01. The complaint is project related since part of the location of complaint us under Contract No. ND/2018/01. 	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
C-018	EP3/N07/RN/06950- 23	Works area at RD-C1 at Kong Nga Po Road	15 th Mar 23	The complainant complained about noise generated from construction activities	Closed	
C-019	N/A	Works Area – Feature M at Kong Nga Po Road	16 th June 2023	Public complaint via 1823 received by DSD on 16 June 2023 and referred to CEDD on 21 June 2023. The complainant concerned the muddy water discharge from outfall and potential impact to the downstream natural stream during heavy rain.	 Level, 75B(A) exceedance was recorded. The complaint is not project-related due to the investigation results as follow: - manholes have been covered and no rain water can enter the drainage system at Feature M. the level of manholes opening is higher than the backfill level of the platform and no surface runoff can enter the drainage system at Feature M. no muddy water or surface runoff entering the drainage system at Feature M was observed. the treatment of surface runoff at Feature M has followed the Temporary Drainage Management Plan (TDMP) rev. H that the surface runoff is diverted into and captured at the retention pit and then pumped into the Wastewater Treatment Plant at Abutment B for treatment before discharging into the existing catch pit. 	Closed

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
					 constructed outfall. monthly sampling and testing for discharged effluent from the wastewater treatment plant has been conducted on 30 June 2022 and no exceedance was recorded. 	

Cumulative Complaint Log

Reporting Period	Total no. of Complaint Received
This reporting month	0
From 3 rd July 2020 to end of the reporting month	19

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