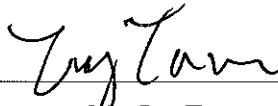


Civil Engineering and Development Department

**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 August 2020
(Version 1.0)**

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

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

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

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Our Ref: IECL20200911-1

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 September 2020

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 August 2020**

I refer to the email dated 11 September 2020 of the Environmental Team concerning the captioned. I have no adverse comment on the Monthly Environmental Monitoring and Audit Report for August 2020 and verify the report according to section 1.9 of Environmental Permit with permit number EP-510/2016.

Yours faithfully,

Kevin W.M. Li
Independent Environmental Checker

cc. CEDD - Andrew CHEUNG
AECOM - Gloria TANG
ET Leader – Ivy TAM

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EXECUTIVE SUMMARY**Introduction**

1. This is the 2nd monthly Environmental Monitoring and Audit (EM&A) Report under the Work Contract (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 August 2020.

Summary of Construction Works undertaken during the Reporting Month

2. The major site activities undertaken in the reporting month include:
 - Tree felling works
 - Temporary road construction at Portion B1
 - Site formation at Portion D
 - Retaining walls construction
 - Slope upgrading works

Environmental Monitoring and Audit Progress

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

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

EM&A Activities	Date
Air Quality Monitoring	17 th , 18 th , 21 st , 24 th , 27 th , 28 th August 2020
Noise Monitoring	18 th , 21 st , 24 th , 27 th August 2020
Ecological Monitoring	17 th August 2020
Environmental Site Inspection	21 st , 28 th August 2020

Breaches of Action and Limit Levels

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

Table II Summary Table for Events Recorded in the Reporting Month

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

Air Quality

5. Due to COVID-19 cases, the construction site was closed since 1st August 2020 and construction works resumed on 12th August 2020. Construction air quality monitoring from 1st August 2020 to 14th August 2020 was temporarily suspended and resumed on 17th August 2020. Construction air quality monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise

6. Due to COVID-19 cases, the construction site was closed since 1st August 2020 and construction works resumed on 12th August 2020. Construction noise monitoring from 1st August 2020 to 14th August 2020 was temporarily suspended and resumed on 18th August 2020. Construction noise monitoring was conducted as scheduled in the reporting month. One Action Level exceedance was recorded due to the documented complaints received in this reporting month. No Limit Level exceedance was recorded in the reporting month.

Ecological Monitoring

7. 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

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

Environmental Complaint

9. One environmental complaint was received in the reporting month.

Notification of Summons and Successful Prosecutions

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

Reporting Changes

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

Future Key Issues

12. The major site activities for the coming three months include:
- Tree felling and transplant works
 - Ground investigation field works
 - Pre-drilling works
 - Site formation at Portion D
 - Retaining walls construction
 - Piling works (foundation socketed H-piles)
 - Road and associated works at Kong Nga Po Road
 - Slope upgrading works
13. Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, noise, water quality and waste management.

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 (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.

Purpose of the report

1.2 This is the 2nd 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 August 2020. The major construction works for the Project commenced on 3rd July 2020.

Structure of the report

1.3 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 monitoring undertaken within the reporting month.
- Section 6: **Environmental Site Inspection** – summarises the audit findings of the weekly site inspections undertaken within the reporting month.
- Section 7: **Environmental Non-conformance** – summarises any monitoring exceedance, environmental complaints, environmental summons and successful prosecutions within the reporting month.
- Section 8: **Future Key Issues** – summarises the impact forecast and monitoring schedule for the next three months.
- Section 9: **Conclusions and Recommendations**

2 PROJECT INFORMATION

Background

- 2.1 The Project consists of site formation works and building works for the co-location of various police facilities in the Project site at Kong Nga Po as well as road improvement works to a section of the existing Kong Nga Po Road between the police facilities and Man Kam To Road. The police facilities include:
- Lo Wu Firing Range (LWFR) to be relocated from Lo Wu;
 - Ma Tso Lung Firing Range (MTLFR) to be relocated from Ma Tso Lung;
 - Weapons Training Facilities (WTF) and Police Driving and Traffic Training Facilities (PD&TTF) to be relocated from Fan Garden;
 - Helipad to be relocated from Lo Wu;
 - A Proposed Police Training Facility (PTF); and
 - A new internal access road network with underpass within the Project site
- 2.2 The improvement works to Kong Nga Po Road between the police facilities and Man Kam To Road includes roadworks, viaduct of less than 100m between abutments, and associated works such as slopeworks and retaining walls.
- 2.3 In addition to the above, associated supporting infrastructure and utilities including an underground stormwater storage tank, sewage pumping station, petrol / diesel filling station, a multi-storey training complex associated with the PD&TTF, and other ancillary facilities will also be provided.
- 2.4 The Project is a Designated Project under the Environmental Impact Assessment Ordinance (EIAO). An Environmental Impact Assessment (EIA) Report (Report No.: AEIAR-201/2016) for the Project was approved under EIAO in October 2016 in accordance with the EIA Study Brief (No. ESB-276/2014) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The corresponding Environmental Permit was issued (EP no.: EP-510/2016) by the Director of Environmental Protection (DEP) in November 2016.
- 2.5 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 The major construction activities of the Project are site formation and infrastructure works which will include site clearance, excavation and filling, construction of access road, utilities laying and landscaping works. As such, an air quality and noise monitoring programme is recommended in the approved Environmental Monitoring and Audit (EM&A) Manual during the construction phases of this Project to monitor the expected dust and noise nuisances. Baseline air quality and noise monitoring were conducted by ET from 14th March 2020 to 2nd April 2020 to establish the background conditions of the designated sensitive

receivers prior to the commencement of the Project's construction works.

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

Project Organization

2.8 Different parties with different levels of involvement in the Project organization include:

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

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

Table 2.1 Key Contacts of the Project

Party	Role	Contact Person	Phone No.	Fax No.
Civil Engineering and Development Department, HKSAR (CEDD)	Project Proponent	Mr. Andrew Cheung	3152 3500	3547 1658
<i>Supervisor / Supervisor's Representative</i> (AECOM)	Chief Resident Engineer	Ms. Gloria Tang	9325 0836	3922 9797
Environmental Team (Wellab Limited)	Environmental Team Leader	Ms. Ivy Tam	2151 2090	2898 7076
Independent Environmental Checker (Acuity Sustainability Consulting Limited)	Independent Environmental Checker	Mr. Kevin Li	9779 2247	2693 9383
Contractor (Build King Construction Limited)	Site Agent	Mr. Book Kin Man	2272 3128	2528 1751
	Environmental Officer	Mr. Kyan Yan	5308 4367	

Summary of Construction Works Undertaken During Reporting Month

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

- Tree felling works
- Temporary road construction at Portion B1
- Site formation at Portion D
- Retaining walls construction
- Slope upgrading works

Construction Programme

2.11 A copy of Contractors' construction programme is provided in **Appendix A**.

Status of Environmental Licences, Notifications and Permits

2.12 A summary of the relevant permits, licences, and/or notifications on environmental

protection for this Project is presented in **Table 2.2**.

Table 2.2 Status of Environmental Licences, Notifications and Permits

Permit / Licence No.	Valid Period		Status
	From	To	
Environmental Permit (EP)			
EP-510/2016	N/A	N/A	Valid
Construction Noise Permit (CNP)			
GW-RN0362-20	15-6-2020	14-8-2020	Expired
GW-RN0363-20	15-6-2020	14-8-2020	Expired
GW-RN0585-20	15-8-2020	14-2-2021	Valid
GW-RN0584-20	15-8-2020	14-2-2021	Valid
GW-RN0579-20	12-8-2020	2-12-2020	Valid
Notification pursuant to Air Pollution Control (Construction Dust) Regulation			
EPD Ref no.: 451555	N/A	N/A	N/A
Billing Account for Construction Waste Disposal			
Account No. 7036173	24-12-2019	N/A	Valid
Registration of Chemical Waste Producer			
Waste Producer No. 5213-641-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

Summary of EM&A Requirement

2.13 The EM&A programme requires construction noise monitoring, air quality monitoring, ecological monitoring and environmental site audits. The EM&A requirements are described in the following sections, including:

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event / Action Plans;
- Environmental mitigation measures, as recommended in the Project EIA study final report; and
- Environmental requirements in contract documents.

Status of Compliance with Environmental Permits Conditions

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

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

EP Conditions	Submission	Submission Date	Approval Status
1.12	Notification of Commencement Date of Construction	3 rd June 2020	-
2.7	Proposal on the Reporting Mechanism and Curriculum Vitae of the IEC	6 th February 2020	-
2.11	Management Organizations	9 th March 2020	-
2.12	Construction Works Schedule and Location Plans	20 th March 2020	-
2.13 & 2.14	Detailed Vegetation Survey Report (Version 1.0)	2 nd April 2020	Approved
	Detailed Vegetation Survey Report (Version 2.0)	8 th May 2020	Approved
	Detailed Vegetation Survey Report (Version 3.0)	9 th July 2020	No approval required
2.4 & 2.14	Transplantation Proposal (Version 1.0)	2 nd April 2020	Approved
	Transplantation Proposal (Version 2.0)	8 th May 2020	Approved
	Transplantation Proposal (Version 3.0)	9 th July 2020	No approval required
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
2.18 & 2.19	Landscape and Visual Mitigation Plan	7 th April 2020	Pending approval
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	-
2.23	Helicopter Flight Plan	To be submitted at least one month before the commencement of operation of the Helipad	-
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	-

3 AIR QUALITY MONITORING

Monitoring Requirements

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

Monitoring Location

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

Table 3.1 Location for Air Quality Monitoring Stations

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

Monitoring Equipment

- 3.4 **Table 3.2** summarizes 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	2

- 3.5 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 is presented in **Appendix G**.
- 3.6 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

- 3.7 **Table 3.3** summarizes 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***

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

(AEROCET-831)

- The dust meter is placed at least 1.3 meters above ground.
- Remove the red rubber cap from the AEROCET-831 inlet nozzle.
- Turn on the power switch that is located on the right side of the AEROCET-831.
- On power up the product intro screen is displayed for 3 seconds. The intro screen displays the product name and firmware version.
- Then the main counter screen will be displayed.
- Press the START button. Internal vacuum pump start running. After 1 minute the pump will stop and the 0.5 μ m and 5 μ m channels will show the cumulative counts of particles larger than 0.5 μ m and 5 μ m per cubic foot.
- The AEROCET-831 is now checked out and ready for use.
- To switch off the AEROCET-831 power to stop the measuring after sampling.
- Information such as sampling date, time, and display value and site condition were recorded during the monitoring period.

Maintenance/Calibration

- 3.10 The following maintenance/calibration was required for the direct dust meters:
- Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

Results and Observations

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

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

Monitoring Station	Concentration ($\mu\text{g}/\text{m}^3$)		Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
	Average	Range		
AM1	104.5	89.7 – 159.1	308	500
AM2	84.1	71.0 – 96.0	311	

- 3.12 Due to COVID-19 cases, the construction site was closed since 1st August 2020 and construction works resumed on 12th August 2020. Construction air quality monitoring from 1st August 2020 to 14th August 2020 was temporarily suspended and resumed on 17th August 2020. Air quality monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedances were recorded.
- 3.13 According to our field observations, the major dust source identified at the designated air quality monitoring stations in the reporting month are shown in **Table 3.5**:

Table 3.5 Observation at Dust Monitoring Stations

Monitoring Station	Major Dust Source
AM1	Dump truck, road traffic
AM2	Road traffic

Event and Action Plan

- 3.14 Should project-related non-compliance of the criteria occur, action in accordance with the 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 (L_{eq}) 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 conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix B** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Location

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

Table 4.1 Location of Noise Monitoring Stations

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

Note: *The location of NM5 as shown in Figure 3.1 of 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 Meter was used for impact noise monitoring. The meters are Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x) that

also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 4.2** summarizes the noise monitoring equipment being used. Copies of calibration certificates are attached in **Appendix C**.

Table 4.2 Noise Monitoring Equipment

Equipment	Model	Quantity
Integrating Sound Level Meter	SVAN 977, BSWA 308 and BSWA 801	4
Acoustical Calibrator	4231, SV 30A	3

Monitoring Parameters, Frequency and Duration

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

Table 4.3 Noise Monitoring Parameters, Duration and Frequency

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

Remarks:

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

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

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

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

Monitoring Methodology and QA/QC Procedures

- 4.5 The monitoring procedures are as follows:

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

-
- frequency weighting : A
 - time weighting : Fast
 - time measurement : $L_{eq(30 \text{ min.})}$ dB(A)
(as six consecutive $L_{eq, 5\text{min}}$ readings) during non-restricted hours (i.e. 0700-1900 hrs on normal weekdays)

- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re- calibration or repair of the equipment;
- During the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet;
- Noise measurement was paused temporarily during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible and observation record during measurement period should be provided; and
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. The wind speed should be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Maintenance and Calibration

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

Results and Observations

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

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

Monitoring Station	Range L_{eq} (30 min) dB(A)	Baseline Level dB(A)	Limit Level dB(A)
NM1 ^[1]	71.1 – 71.4	54.9	75.0
NM2 ^[1]	59.5 – 60.1	56.7	
NM3	55.9 – 56.2	54.5	
NM4	59.3 – 59.7	58.7	
NM5	55.2 – 57.0	57.0	
NM6 ^[1]	54.4 – 55.4	56.0	
NM7	51.6 – 54.4	49.8	
NM8 ^[1]	52.8 – 54.8	57.6	
NM9 ^[1]	54.7 – 56.3	55.9	
NM10 ^[1]	53.0 – 54.9	52.8	
NM11	45.3 – 54.0	46.4	
NM12	52.9 – 55.4	54.7	
NM13 ^[1]	45.1 – 51.2	61.3	
NM14 ^[1]	52.6 – 53.1	59.6	

Remarks:

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

- 4.10 Due to COVID-19 cases, the construction site was closed since 1st August 2020 and construction works resumed on 12th August 2020. Construction noise monitoring from 1st August 2020 to 14th August 2020 was temporarily suspended and resumed on 18th August 2020. Noise monitoring was conducted as scheduled in the reporting month. One Action Level exceedance was recorded due to the documented complaints received in this reporting month. No Limit Level exceedance was recorded in the reporting month. The summary of exceedance record in reporting month is shown in **Appendix J**.
- 4.11 According to our field observations, the major noise sources identified at the designated noise monitoring stations in the reporting month are as follows:

Table 4.5 Observation at Noise Monitoring Stations

Monitoring Station	Major Noise Source
NM1	Road traffic, dump truck, lorry
NM2	Road traffic, dump truck, lorry
NM3	Road traffic, dump truck, lorry
NM4	Road traffic, dump truck, lorry
NM5	Road traffic, dump truck, lorry
NM6	Road traffic, dump truck, lorry
NM7	Road traffic, dump truck, lorry
NM8	Road traffic
NM9	Road traffic
NM10	Road traffic, dump truck, lorry
NM11	N.A.
NM12	Road traffic
NM13	Road traffic
NM14	Road traffic

Event and Action Plan

- 4.12 Should any project related non-compliance of the criteria occur, action in accordance with the 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 8.3.2.1 of EM&A Manual, monitoring of flora species of conservation interest was conducted by ET on monthly basis to make sure that the flora species of conservation interest identified in the detailed vegetation survey are not affected by the construction activities of the Project. The location of flora species of conservation interest is shown in **Figure 4A – 4F**.
- 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. The implementation of erection and maintenance of the temporary protective fence enclosing the flora species of conservation interest was reviewed for the effectiveness. The conditions of the individuals of flora species of conservation interest were recorded.

Results and Observations

- 5.3 Monthly monitoring of flora species of conservation interest was conducted on 17th August 2020. The flora species of conservation interest identified under the detailed vegetation survey include Cycad-fern *Brainea insignis*, Ladies Tresses *Spiranthes sinensis*, Fortune's Keteleeria *Keteleeria fortunei* and Incense Tree *Aquilaria sinensis*. Temporary protective fence was properly erected and maintained for enclosing the flora species of conservation interest. No construction activity such as material storage was observed at the location of the flora species of conservation interest. The ecological monitoring result is presented in **Appendix H**.

6 ENVIRONMENTAL SITE INSPECTION

Site Audits

- 6.1 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.
- 6.2 Site audits were conducted on 21st and 28th August 2020 in the reporting month. A joint site audit with the representative of the Supervisor's Representative, the Contractor and IEC was carried out on 21st August 2020.
- 6.3 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 6.1**.

Table 6.1 Observations and Recommendations of Site Audit

Parameters	Date	Observations	Follow Up Action
Air Quality	21/8/2020	<u>Reminder</u> Contractor was reminded to provide dust suppression measures during loading and unloading of dusty materials.	Rectification was in progress. Follow-up action is needed to be reviewed.
	28/8/2020	<u>Reminder</u> Provide sufficient dust suppression measures for the exposed site area, slope and stockpiles of soil.	Follow-up action is needed to be reported in the following month.
Construction Noise Impact	--	--	--
Water Quality	31/7/2020	<u>Reminder</u> Temporary drainage system was setting up in progress and improvement and rectified action will be followed up.	Rectification was in progress. Follow-up action is needed to be reviewed.
	21/8/2020	<u>Reminder</u> Contractor was reminded to check and keep existing U-channel clear from blockage with necessary protection measures to avoid any silt and sediment at nearby exposed / excavation area from setting into the drainage.	Rectification was in progress. Follow-up action is needed to be reviewed.
	28/8/2020	<u>Reminder</u> Keep check and clear the site drainage regularly to avoid drain blockages.	Follow-up action is needed to be reported in the following month.
Waste/ Chemical Management	31/7/2020	<u>Reminder</u> Drip tray should be well maintained at Portion D.	Improvement/Rectification was observed during follow-up audit session on 21/8/2020.
	31/7/2020	<u>Reminder</u> Preventive measures should be adopted to prevent chemical leakage from the oil container opening.	Improvement/Rectification was observed during follow-up audit session on 21/8/2020.

Parameters	Date	Observations	Follow Up Action
Landscape and Visual	--	--	--
Ecology	--	--	--
Permit/Licences	21/8/2020	<u>Reminder</u> Contractor was reminded to display the latest valid Construction Noise Permit at site entrance.	Improvement/Rectification was observed during follow-up audit session on 28/8/2020.

Implementation Status of Environmental Mitigation Measures

- 6.4 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**.

Solid and Liquid Waste Management Status

- 6.5 Waste generated from this Project includes inert construction and demolition (C&D) materials, non-inert C&D wastes and general refuse. The amount of wastes generated by the construction works of the Project during the reporting month is shown in **Appendix L**.
- 6.6 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 summited in **Appendix K**.

7 ENVIRONMENTAL NON-CONFORMANCE

Summary of Exceedances

- 7.1 One Action Level exceedance for noise monitoring was recorded due to the documented complaints received in this reporting month. No exceedance of Limit Level of construction noise was recorded in the reporting month.
- 7.2 No exceedance of Action and Limit Levels of air quality was recorded in the reporting month.
- 7.3 Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that the Action / Limit Levels are exceeded, the actions in accordance with the Event and Action Plans in **Appendix I** be carried out. The summary of exceedance record in reporting month is shown in **Appendix J**.

Summary of Environmental Non-Compliance

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

Summary of Environmental Complaint

- 7.5 One environmental complaint was 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

- 7.6 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**.

8 FUTURE KEY ISSUES

Key Issues in the Coming Two Months

- 8.1 The tentative construction programme for the Project is provided in **Appendix A**. The major construction activities undertaken in the coming three months will include:
- Tree felling and transplant works
 - Ground investigation field works
 - Predrilling works
 - Site formation at Portion D
 - Retaining walls construction
 - Piling works (foundation socketed H-piles)
 - Road and associated works at Kong Nga Po Road
 - Slope upgrading works
- 8.2 Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, noise, water quality and waste management.

Monitoring Schedule for the Next Month

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

9 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 9.1 This Monthly EM&A Report presents the EM&A work undertaken in August 2020 in accordance with EM&A Manual.
- 9.2 One Action Level exceedance for noise monitoring was recorded due to the documented complaints received in this reporting month. No exceedance of Limit Level of construction noise was recorded in the reporting month.
- 9.3 No exceedance of Action and Limit Levels of air quality was recorded in the reporting month.
- 9.4 Environmental site inspection was conducted on 21st and 28th August 2020 by ET in the reporting month. No environmental non-compliance was recorded in the reporting month.
- 9.5 One environmental complaints, no notification of summons or successful prosecutions were received in the reporting month.
- 9.6 The ET would keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Recommendations

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

Air Quality Impact

- To enhance the dust suppression measures such as water spraying on all haul roads, exposed work site area and stockpile of soil; and
- To enhance the dust suppression measures during loading and unloading of dusty materials.

Construction Noise Impact

- To select quieter plant;
- To provide sufficient noise mitigation measures (e.g. movable noise barrier, noise enclosure, acoustic shed, noise insulating fabric etc.) for the site activities on nearby NSRs where appropriate; and
- To strengthen site supervision and 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.

Water Impact

- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge; and
- To avoid any silt and sediment setting into the drainage, resulting in blockage of existing U-channel.

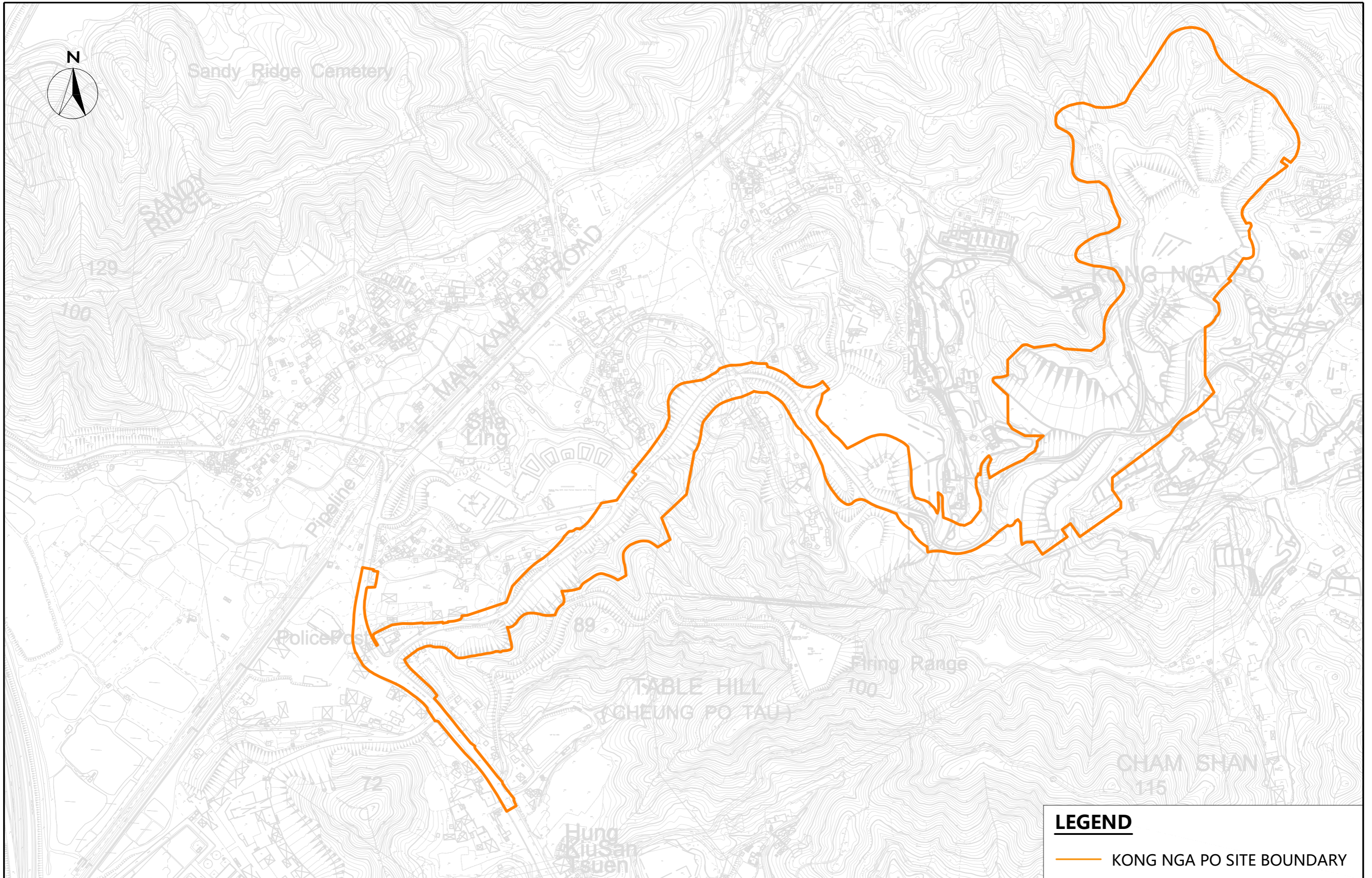
Waste/Chemical Management

- To maintain the drip tray well for chemical storage; and
- To prevent chemical leakage from opening of oil container.

Permit and Licences

- To display valid permits and licences at site entrance for inspection.

FIGURE(S)

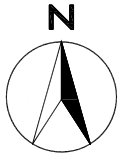


LEGEND			
—		KONG NGA PO SITE BOUNDARY	

WELLAB

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

SCALE	A3 @1:40000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JDB No.	WMA20001	FIGURE No.	1
		REV	—

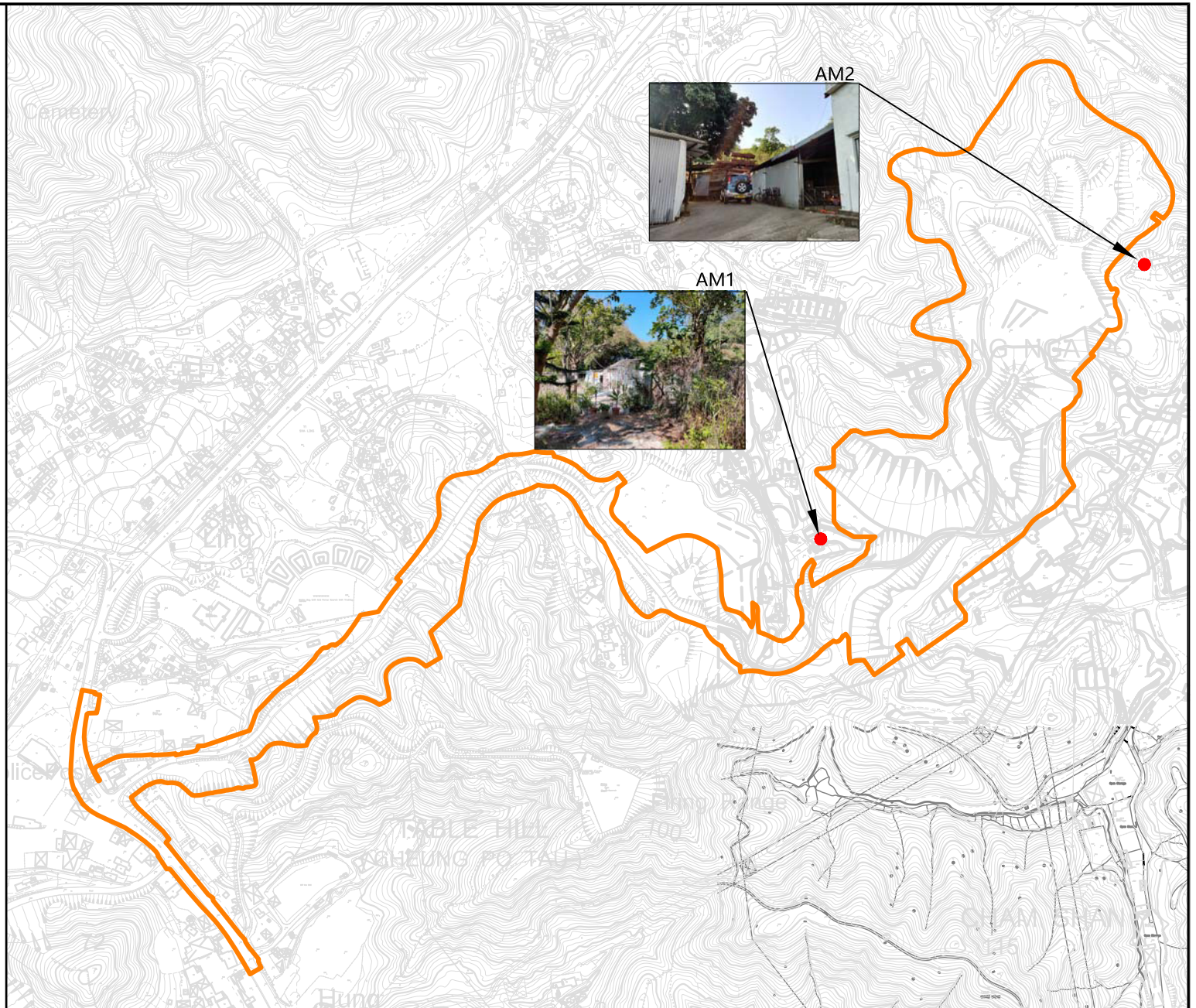


LEGEND

 SITE BOUNDARY

 AIR QUALITY MONITORING STATIONS

AIR QUALITY MONITORING STATIONS	
I.D	Description
AM1	Village House, Kong Nga Po
AM2	Village House, Kong Nga Po



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

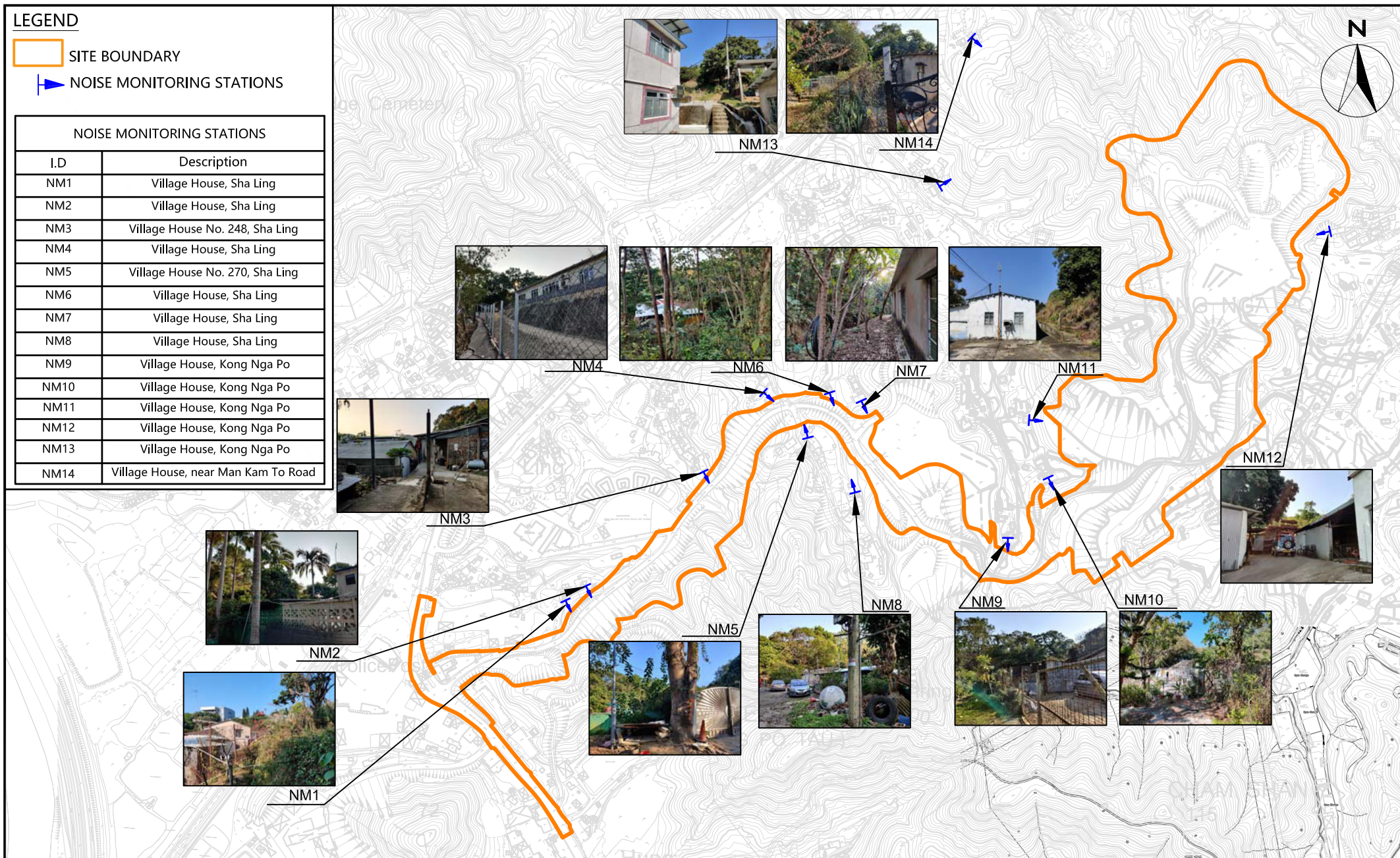
Air Quality Monitoring Stations

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CHECK	IT	DRAWN	NL	
JOB No.	WMA20001	FIGURE NO.	2	REV —

LEGEND

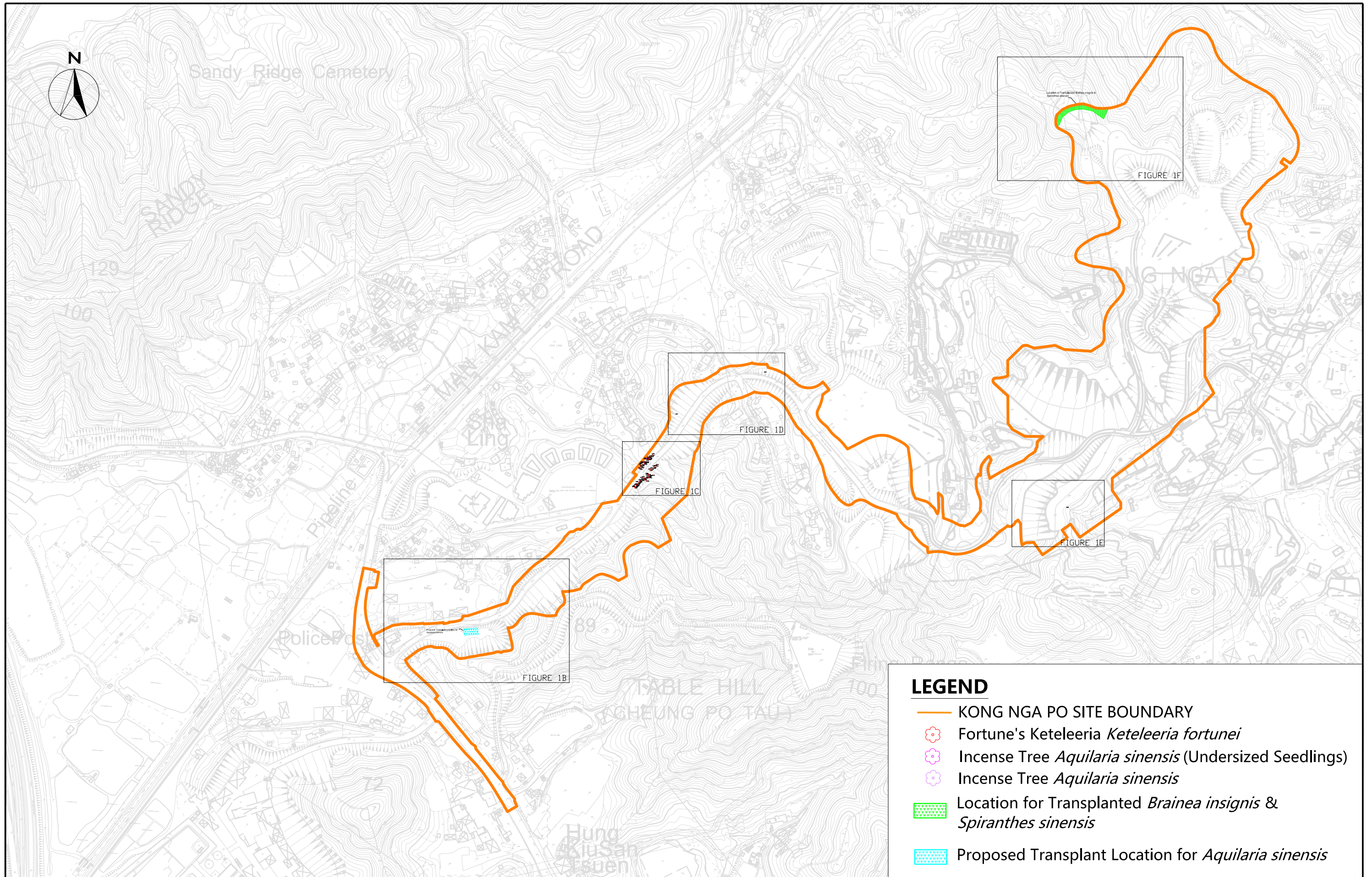
- SITE BOUNDARY
- ▶ NOISE MONITORING STATIONS

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



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

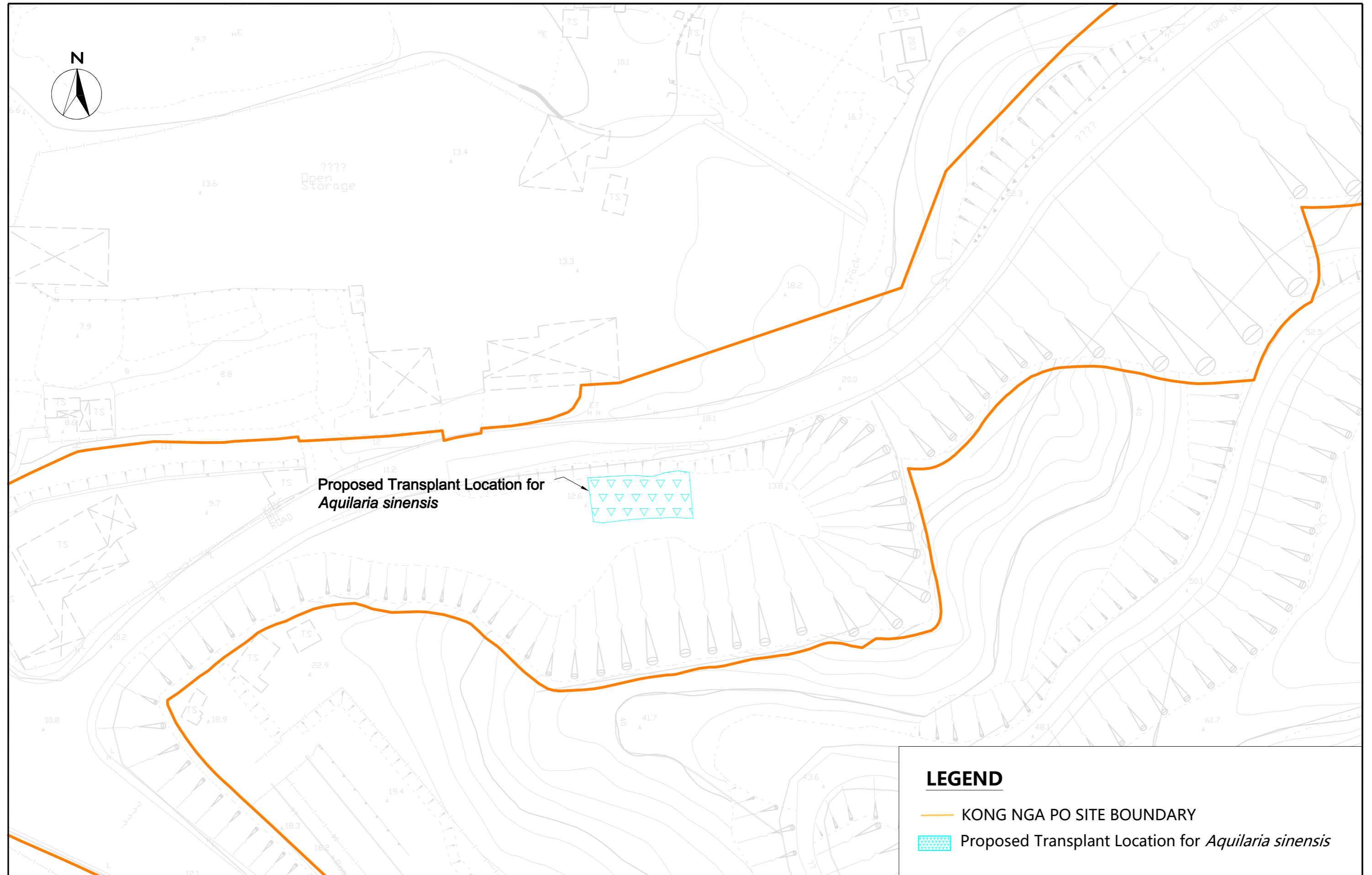
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CHECK	IT	DRAWN	NL	
JOB No.	WMA20001	FIGURE NO.	3	REV —



LEGEND



- KONG NGA PO SITE BOUNDARY
- 🌸 Fortune's Keteleeria *Keteleeria fortunei*
- 🌸 Incense Tree *Aquilaria sinensis* (Undersized Seedlings)
- 🌸 Incense Tree *Aquilaria sinensis*
- Location for Transplanted *Brainea insignis* & *Spiranthes sinensis*
- Proposed Transplant Location for *Aquilaria sinensis*

SCALE	A3 @1:40000	DATE	JUL 2020
CHECK	IT	DRAWN	NL
JOB No.	WMA20001	FIGURE No.	4A
		REV	—

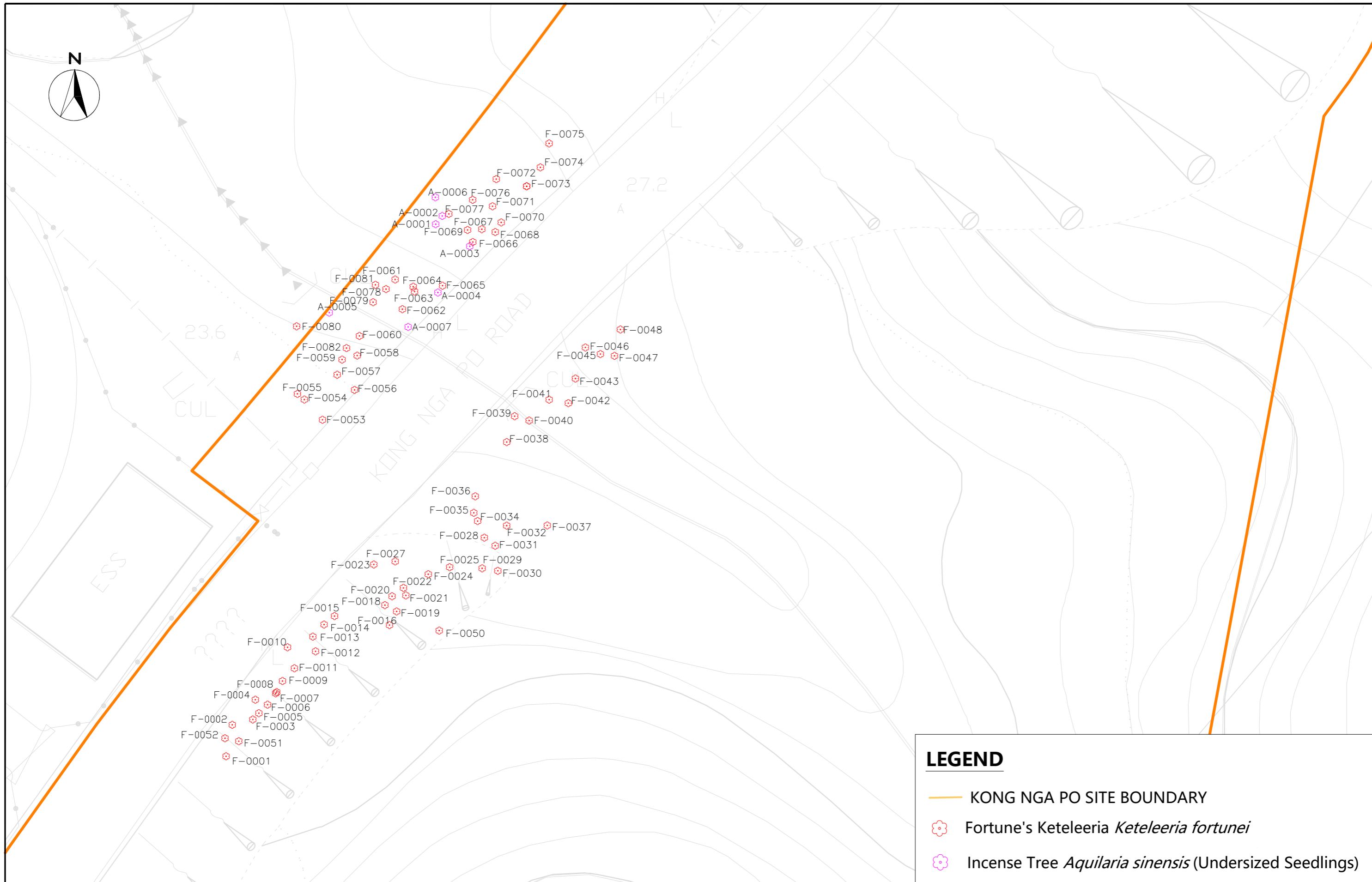


Proposed Transplant Location for *Aquilaria sinensis*

LEGEND

-  KONG NGA PO SITE BOUNDARY
-  Proposed Transplant Location for *Aquilaria sinensis*

SCALE	A3 @1:5000	DATE	JUL 2020
CHECK	IT	DRAWN	NL
JOB No.	WMA20001	DRAWING No.	4B
		REV	—



LEGEND

- KONG NGA PO SITE BOUNDARY
- ⊗ Fortune's Keteleeria *Keteleeria fortunei*
- ⊗ Incense Tree *Aquilaria sinensis* (Undersized Seedlings)



Service Contract No. NDO 07/2019 Environmental Team for Site
 Formation and Infrastructure Works for Police Facilities in Kong Nga Po
 Location of Fortune's Keteleeria *Keteleeria fortunei* & Incense Tree *Aquilaria sinensis* (Undersized Seedlings)

SCALE	A3 @1:2000	DATE	JUL 2020
CHECK	IT	DRAWN	NL
JOB No.	WMA20001	DRAWING No.	4C
		REV	—



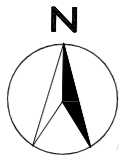
LEGEND

- KONG NGA PO SITE BOUNDARY
- ✿ Incense Tree *Aquilaria sinensis*





Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
 Location of Incense Tree *Aquilaria sinensis*

SCALE	A3 @1:3000	DATE	JUL 2020
CHECK	IT	DRAWN	NL
JOB No.	WMA20001	DRAWING No.	4D
		REV	—



LEGEND

-  KONG NGA PO SITE BOUNDARY
-  Incense Tree *Aquilaria sinensis*

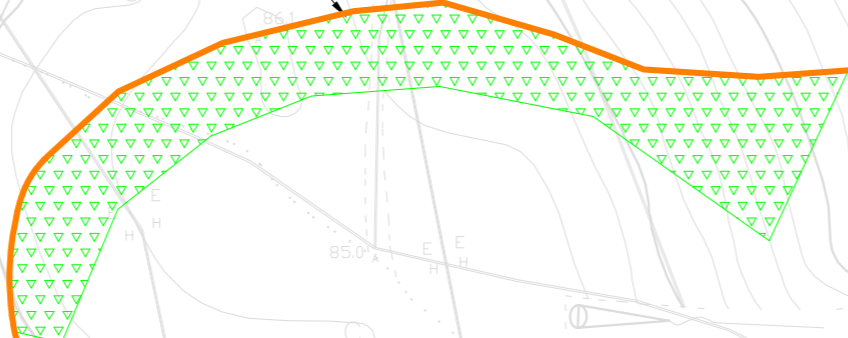
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Service Contract No. NDO 07/2019 Environmental Team for Site
Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Location of Incense Tree *Aquilaria sinensis*



SCALE	A3 @1:2500	DATE	JUL 2020
CHECK	IT	DRAWN	NL
JOB No.	WMA20001	DRAWING No.	4E
		REV	—



Location of Transplanted *Brainea insignis* & *Spiranthes sinensis*



LEGEND

-  KONG NGA PO SITE BOUNDARY
-  Location of Transplanted *Brainea insignis* & *Spiranthes sinensis*

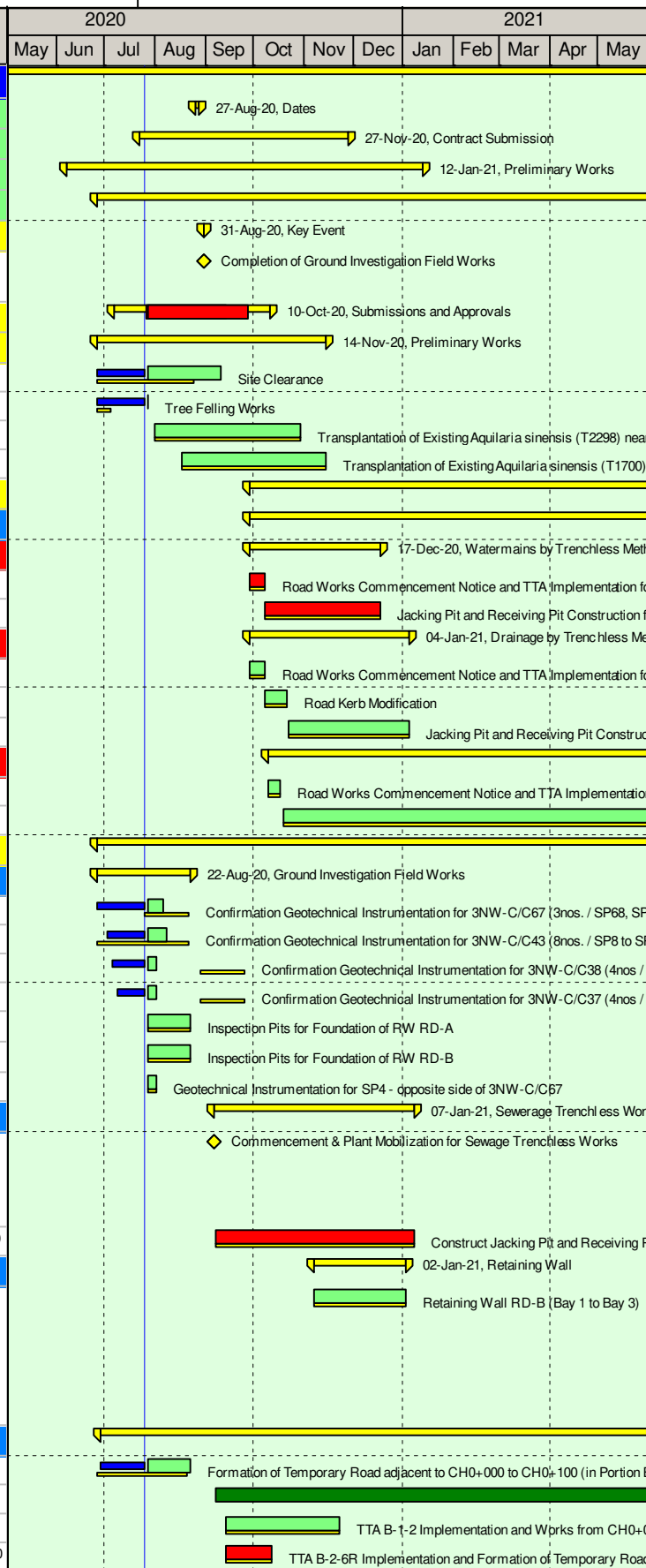


Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Location of Transplanted *Brainea insignis* & *Spiranthes sinensis*

SCALE	A3 @1:5000	DATE	JUL 2020
CHECK	IT	DRAWN	NL
JOB No.	WMA20001	DRAWING No.	4F
		REV	—

**APPENDIX A
CONSTRUCTION PROGRAMME**

Activity ID	Activity Name	Calendar	Original Duration	Actual Duration	Total Float	TRA	Start	Finish	Activity % Complete	Predecessors	Successors	2020												2021				
												May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May				
Site Formation and Infrastructure Works for Police Facilities in																												
Dates		ND201801_7d	2	0	0	0	25-Aug-20	27-Aug-20				27-Aug-20, Dates																
Contract Submission		ND201801_7d	155	3	790	0	23-Jul-20A	27-Nov-20				27-Nov-20, Contract Submission																
Preliminary Works		ND201801_6d	165	40	602	0	08-Jun-20A	12-Jan-21				12-Jan-21, Preliminary Works																
Works in KD1 and KD2 (Portion A, A1, B, B1, & B2)																												
Key Event		ND201801_7d	0	0	637	0	31-Aug-20	31-Aug-20				31-Aug-20, Key Event																
KD.KE-1000	Completion of Ground Investigation Field Works	ND201801_7d	0	0	637	0		31-Aug-20	0%	KD.GM-1400, KD.B.GI-1450, KD.B.GI-1500, KD.GM-1500, KD.GM-1450	KD1	Completion of Ground Investigation Field Works																
Submissions and Approvals																												
Preliminary Works			110	17	678	28	07-Jul-20A	10-Oct-20				10-Oct-20, Submissions and Approvals																
KD.PW-1150	Site Clearance	ND201801_6d	50	25	702	0	26-Jun-20A	10-Sep-20	20%	CS-1650, AS-1100		14-Nov-20, Preliminary Works																
KD.B.RD-1100	Tree Felling Works	ND201801_6d	7	25	42	0	26-Jun-20A	27-Jul-20	100%	KD.B.RD-1050	KD.B.RD-1600	Site Clearance																
KD.PW-1850	Transplantation of Existing Aquilaria sinensis (T2298) near Slope F16	ND201801_7d	90	0	27	3	01-Aug-20*	29-Oct-20	0%		KD.B.RW-RD-B-1000	Tree Felling Works																
KD.PW-1800	Transplantation of Existing Aquilaria sinensis (T1700) near Slope C38	ND201801_7d	90	0	408	3	17-Aug-20*	14-Nov-20	0%		S1.B.SF-1300	Transplantation of Existing Aquilaria sinensis (T2298) near Slope F16																
Portion A and A1																												
Road, Drain and Utilities Works																												
Watermains by Trenchless Method																												
KD.A.RD-1400	Road Works Commencement Notice and TTA Implementation for Watermains Trenchless Works	ND201801_6d	7	0	0	2	28-Sep-20	07-Oct-20	0%	KD.XP-1150, KD.AS-1500	KD.A.RD-1450	17-Dec-20, Watermains by Trenchless Method																
KD.A.RD-1450	Jacking Pit and Receiving Pit Construction for Watermains Trenchless at Man Kam To Road	ND201801_6d	60	0	0	2	08-Oct-20	17-Dec-20	0%	KD.A.RD-1400	KD.A.RD-1500	Road Works Commencement Notice and TTA Implementation for Watermains Trenchless Works																
Drainage by Trenchless Method																												
KD.A.RD-1700	Road Works Commencement Notice and TTA Implementation for Drainage Trenchless Works at MCTR North Bound	ND201801_6d	7	0	31	2	28-Sep-20	07-Oct-20	0%	KD.AS-1550, KD.XP-1150	KD.A.RD-2500	Jacking Pit and Receiving Pit Construction for Watermains Trenchless at Man Kam To Road																
KD.A.RD-2500	Road Kerb Modification	ND201801_6d	12	0	31	1	08-Oct-20	21-Oct-20	0%	KD.A.RD-1700	KD.A.RD-1750	Road Works Commencement Notice and TTA Implementation for Drainage Trenchless Works																
KD.A.RD-1750	Jacking Pit and Receiving Pit Construction for Drainage Trenchless Works	ND201801_6d	60	0	31	2	22-Oct-20	04-Jan-21	0%	KD.A.RD-2500, KD.AS-1550	KD.A.RD-1800	Road Kerb Modification																
Sewerage																												
KD.A.RD-1900	Road Works Commencement Notice and TTA Implementation for Sewerage Works	ND201801_6d	7	0	146	1	10-Oct-20	17-Oct-20	0%	KD.XP-1150, KD.AS-1650	KD.A.RD-1950	Jacking Pit and Receiving Pit Construction for Drainage Trenchless Works																
KD.A.RD-1950	Sewerage Works adjacent to Footpath of Man Kam To Road	ND201801_6d	300	0	146	5	19-Oct-20	22-Oct-21	0%	KD.AS-1650, KD.A.RD-1900	KD.KE-1450	Road Works Commencement Notice and TTA Implementation for Sewerage Works																
Portion B, B1 and B2																												
Ground Investigation Field Works																												
KD.B.GI-1050	Confirmation Geotechnical Instrumentation for 3NW-C/C67 (3nos. / SP8, SP5, SP6)	ND201801_6d	24	25	316	0	26-Jun-20A	06-Aug-20	60%	KD.B.GI-1100	KD.SDR.FT-1200, KD.B.GI-1400, KD.GM-1050	22-Aug-20, Ground Investigation Field Works																
KD.B.GI-1150	Confirmation Geotechnical Instrumentation for 3NW-C/C43 (8nos. / SP8 to SP15)	ND201801_6d	48	20	280	0	03-Jul-20A	08-Aug-20	75%	KD.B.GI-0000	KD.GM-1150, KD.B.GI-1200, KD.SDR.FT-1100	Confirmation Geotechnical Instrumentation for 3NW-C/C67 (3nos. / SP8, SP5, SP6)																
KD.B.GI-1300	Confirmation Geotechnical Instrumentation for 3NW-C/C38 (4nos. / SP18, SP19, SP21, SP22)	ND201801_6d	24	18	434	0	06-Jul-20A	01-Aug-20	75%	KD.B.GI-1400	KD.SDR.FT-1050, KD.GM-1300	Confirmation Geotechnical Instrumentation for 3NW-C/C43 (8nos. / SP8 to SP15)																
KD.B.GI-1250	Confirmation Geotechnical Instrumentation for 3NW-C/C37 (4nos. / SP16, SP17, SP20, SP20)	ND201801_6d	24	15	339	0	09-Jul-20A	01-Aug-20	75%	KD.B.GI-1200	KD.SDR.FT-1000, KD.B.GI-1350, KD.GM-1250	Confirmation Geotechnical Instrumentation for 3NW-C/C38 (4nos. / SP18, SP19, SP21, SP22)																
KD.B.GI-1550	Inspection Pits for Foundation of RW RD-A	ND201801_6d	24	0	370	0	27-Jul-20	22-Aug-20	0%	KD.B.GI-1200	KD.B.RW-RD-A-1000	Confirmation Geotechnical Instrumentation for 3NW-C/C37 (4nos. / SP16, SP17, SP20, SP20)																
KD.B.GI-1600	Inspection Pits for Foundation of RW RD-B	ND201801_6d	24	0	78	0	27-Jul-20	22-Aug-20	0%	KD.B.GI-1000	KD.B.RW-RD-B-1000	Inspection Pits for Foundation of RW RD-A																
KD.B.GI-1500	Geotechnical Instrumentation for SP4 - opposite side of 3NW-C/C67	ND201801_6d	6	0	517	0	27-Jul-20	01-Aug-20	0%		KD.KE-1000, KD.GM-1500	Inspection Pits for Foundation of RW RD-B																
Sewerage Trenchless Works																												
KD.B.TR-0000	Commencement & Plant Mobilization for Sewage Trenchless Works	ND201801_7d	0	0	1	0	06-Sep-20		0%	GS-1050, KD.GM-1450, KD.MS-1250, GS-1500, CS-0000, KD.DS-1100, CS-1000	KD.B.TR-1150, KD.B.TR-1000	Geotechnical Instrumentation for SP4 - opposite side of 3NW-C/C67																
KD.B.TR-1000	Construct Jacking Pit and Receiving Pit	ND201801_6d	100	0	0	3	07-Sep-20	07-Jan-21	0%	KD.B.TR-0000	KD.B.TR-1050, KD.B.RD-1200	Commencement & Plant Mobilization for Sewage Trenchless Works																
Retaining Wall																												
KD.B.RW-RD-B-1000	Retaining Wall RD-B (Bay 1 to Bay 3)	ND201801_6d	45	0	16	0	07-Nov-20	02-Jan-21	0%	KD.MS-1150, KD.SDR.FD-1050, KD.AS-1150, KD.GM-1600, KD.DS-1150, KD.B.GI-1000, KD.SDR.FT-1400, KD.B.GI-1600, KD.B.RW-RD-0000, KD.PW-1850, KD.B.RD-1150, CS-1560	S1.B.SF-1010, KD.B.RW-RD-A-1000, KD.KE-1050, KD.B.RD-1150.01	Construct Jacking Pit and Receiving Pit																
Road, Drain and Utilities Works																												
KD.B.RD-1000	Formation of Temporary Road adjacent to CH0+000 to CH0+100 (in Portion B1)	ND201801_6d	47	23	435	0	29-Jun-20A	22-Aug-20	50%	AD-P5	KD.B.RD-1250	Retaining Wall RD-B (Bay 1 to Bay 3)																
KD.B.RD-1200	CH0+500 to CH0+600 (Sewerage Trenchless Works)	ND201801_6d	380	0	0	3	07-Sep-20	15-Dec-21	0%	KD.B.TR-1050, KD.B.TR-1000		Formation of Temporary Road adjacent to CH0+000 to CH0+100 (in Portion B1)																
KD.B.RD-1250.01	TTA B-1-2 Implementation and Works from CH0+050 to CH0+100	ND201801_6d	57	0	17	3	14-Sep-20	23-Nov-20	0%	KD.B.RD-0000	KD.B.RD-1300, S1.B.SF-1100, KD.KE-1150	CH0+500 to CH0+600 (Sewerage Trenchless Works)																
KD.B.RD-1600	TTA B-2-6R Implementation and Formation of Temporary Road adjacent to CH0+800 to CH0+950	ND201801_6d	22	0	0	3	14-Sep-20	12-Oct-20	0%	KD.B.RD-0000, KD.B.RD-1100	KD.B.RD-1600.01, KD.KE-1150	TTA B-1-2 Implementation and Works from CH0+050 to CH0+100																



█ Remaining Level of Effort
 █ Actual Work
 █ Critical Remaining ...
█ Primary Baseline
 █ Remaining Work
 ◆ Milestone

Three Months Rolling Programme

Activity ID	Activity Name	Calendar	Original Duration	Actual Duration	Total Float	TRA	Start	Finish	Activity % Complete	Predecessors	Successors	2020					2021				
												May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Site Formation and Slope Upgrading Works												06-Sep-20, Site Formation and Slope Upgrading Works									
S2.C.SF-0000	Commencement of Site Formation Works & Plant Mobilization	ND201801_7d	0	0	412	0	06-Sep-20	06-Sep-20	0%	GS-1050, AD-P2, KD.XP-1200, S2.DS-1150, CS-1000, S2.AS-1050, S2.C.PW-1100, GS-1500, CS-0000	S2.C.SF-1400, S2.C.SF-1300, S2.C.SF-1450, S2.C.RW-1000, S2.C.SF-1100, S2.C.SF-1250, S2.C.SF-1050, S2.CS-1150, S2.C.SF-1500, S2.C.SL-1000, S2.C.SF-1200	06-Sep-20, Site Formation and Slope Upgrading Works									
Section 3 (Portion D, D1)												28-Jan-21, Submissions and Approvals									
Submissions and Approvals												05-Nov-20, Key Event									
Key Event												05-Nov-20, Key Event									
S3.D.RW-0000	Commencement and Plant Mobilization for Retaining Walls Construction	ND201801_6d	0	0	49	0	07-Sep-20	05-Nov-20	0%	GS-1500, S3.MS-1000, S3.DS-1100, CS-0000, S3.D.PW-1100	S3.D.RW-DA-M-1400, S3.D.RW-DA-K-1000, S3.D.RW-DA-F-1100, S3.D.RW-DA-A-1100, S3.D.RW-DA-M-1300, S3.D.RW-DA-C-1000, S3.D.RW-DA-A-1000, S3.D.RW-DA-I-1000, S3.D.RW-DA-J-1000, S3.D.RW-DA-L-1000, S3.D.RW-DA-G-1000, S3.D.RW-DA-E-1000	05-Nov-20, Key Event									
S3.D.RD-0000	Commencement and Plant Mobilization for Road, Drain and Utilities Works	ND201801_6d	0	0	118	0	24-Sep-20		0%	GS-1500, S3.MS-1250, S3.DS-1100, CS-0000, S3.D.PW-1100, S3.MS-1450	S3.D.RD-1400, S3.D.RD-1050, S3.D.RD-1250, S3.D.RD-1350, S3.D.RD-1550, S3.D.RD-1100, S3.D.RD-1600, S3.D.RD-1300, S3.D.RD-1150, S3.D.RD-1700, S3.D.RD-1200, S3.D.RD-1500, S3.D.RD-1000, S3.D.RD-1450, S3.D.RD-1650	05-Nov-20, Key Event									
S3.KE-1000	Completion of Ground Investigation Field Works	ND201801_7d	0	0	351	0		05-Nov-20	0%	S3.D.GI-1700, S3.D.GI-1300, S3.D.GI-1450	PC.S3, S3.KE-1500	05-Nov-20, Key Event									
Preliminary Works												08-Jun-21									
S3.D.PW-1200	Tree Felling and Formation of Haul Road for Piling Platform	ND201801_6d	35	50	739	0	27-May-20A	30-Jul-20	90%	S3.D.PW-1400	S3.D.GI-1150, S3.D.GI-1050, S3.D.GI-1100	08-Jun-21									
S3.D.PW-1250	Tree Felling	ND201801_6d	430	22	484	0	30-Jun-20A	08-Jun-21	40%	CS-1000, S3.MS-1150, S3.D.PW-1150		08-Jun-21									
S3.D.PW-1450	Transplantation of Existing Aquilaria sinensis (T5153)	ND201801_7d	90	0	27		26-Jul-20	23-Oct-20	0%		S3.D.SF-1550	08-Jun-21									
Portion D												08-Sep-21									
Platform I (+54.5mPD), Platform H (+64.5mPD) & Platform J (+64.5mPD)												14-Apr-21									
Ground Investigation Field Works												21-Nov-20, Ground Investigation Field Works									
S3.D.GI-3000	Geotechnical Instrumentation (1no. / SP49) - near RW DA-K1	ND201801_6d	6	0	714	0	27-Jul-20	01-Aug-20	0%	S3.D.GI-2950	S3.GM-2850, S3.D.GI-2850	21-Nov-20, Ground Investigation Field Works									
S3.D.GI-3650	Inspection Pits for Foundation of RW DA-M (Bay 52-61)	ND201801_6d	24	0	97	0	27-Jul-20	22-Aug-20	0%	S3.D.GI-3200	S3.D.GI-3700, S3.SDR.FD-1650, S3.SDR.FD-1600	21-Nov-20, Ground Investigation Field Works									
S3.D.GI-3700	Inspection Pits for Foundation of RW DA-M (Bay 40-51)	ND201801_6d	24	0	97	0	24-Aug-20	19-Sep-20	0%	S3.D.GI-3650	S3.SDR.FD-1600	21-Nov-20, Ground Investigation Field Works									
S3.D.GI-3150	Inspection Pits for Foundation of RW DA-K	ND201801_6d	24	0	12	0	24-Sep-20	23-Oct-20	0%	S3.D.SF-1350	S3.SDR.FD-1500, S3.D.GI-3400, S3.SDR.FD-1450	21-Nov-20, Ground Investigation Field Works									
S3.D.GI-3400	Inspection Pits for Foundation of RW DA-J	ND201801_6d	24	0	12	0	24-Oct-20	21-Nov-20	0%	S3.D.SF-1350, S3.D.GI-3150	S3.SDR.FD-1450	21-Nov-20, Ground Investigation Field Works									
Site Formation												25-Jan-21, Site Formation									
S3.D.SF-1250	Trim near RW DA-L to +54.5mPD at Platform I	ND201801_6d	75	24	5	4	27-Jun-20A	23-Sep-20	32%	S3.D.SF-1250.01, S3.D.SF-1250.02		25-Jan-21, Site Formation									
S3.D.SF-1250.01	Formation of Access to Platform +54.5mPD	ND201801_6d	28	24	5	2	27-Jun-20A	30-Jul-20	85.71%	S3.AS-1150, S3.GM-1100	S3.D.SF-1250, S3.KE-1150, S3.D.SF-1250.02, S3.D.GI-3200	25-Jan-21, Site Formation									
S3.D.SF-1250.02	Formation of Access from Platform +54.5mPD to Feature L	ND201801_6d	28	0	5	3	31-Jul-20	01-Sep-20	0%	S3.D.SF-1250.01	S3.D.SF-1250.03, S3.KE-1150	25-Jan-21, Site Formation									
S3.D.SF-1250.03	Temporary Cut to Bottom of RW DA-L	ND201801_6d	19	0	5		02-Sep-20	23-Sep-20	0%	S3.D.SF-1250.02	S3.D.SF-1350, S3.D.SF-1250, S3.D.RW-DA-L-1000, S3.KE-1150	25-Jan-21, Site Formation									
S3.D.SF-1350	Trim 3NW-C/C403 and 3NW-C/C404 at Platform H/J	ND201801_6d	100	0	5	3	24-Sep-20	25-Jan-21	0%	S3.D.SF-1250.03	S3.D.GI-3400, S3.D.GI-3150, S3.D.RW-DA-K-1000, S3.D.SF-1750, S3.KE-1150, S3.D.RW-DA-J-1000, S3.D.RD-1400	25-Jan-21, Site Formation									
Retaining Wall												14-Apr-21									
S3.D.RW-DA-L-1000	Construct RW DA-L	ND201801_6d	70	0	159	3	24-Sep-20	17-Dec-20	0%	S3.SDR.FD-1550, S3.D.SF-1250.03, S3.D.RW-0000, S3.AS-1250	S3.D.SF-2250, S3.D.SF-2300, S3.KE-1200	14-Apr-21									
S3.D.RW-DA-M-1300	Construct RW DA-M (Bay 40-51)	ND201801_6d	120	0	97	1	16-Nov-20	14-Apr-21	0%	S3.D.RW-0000, S3.GM-1150, S3.SDR.FD-1600, S3.D.RW-DA-M-1350	S3.D.SF-2150, S3.D.SF-2200, S3.KE-1200	14-Apr-21									
Platform G (+70.0mPD)												10-Dec-20, Platform G (+70.0mPD)									
Ground Investigation Field Works												19-Sep-20, Ground Investigation Field Works									

█ Remaining Level of Effort
 █ Actual Work
 █ Critical Remaining ...
▬ Primary Baseline
 █ Remaining Work
 ◆ Milestone

Three Months Rolling Programme

**APPENDIX B
ACTION AND LIMIT LEVELS**

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

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

TableB-2 Action and Limit Levels for Construction Noise

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

Noted:

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

**APPENDIX C
COPIES OF CALIBRATION
CERTIFICATES**

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	33783A
Date of Issue:	2020-07-09
Date Received:	2020-07-07
Date Tested:	2020-07-07
Date Completed:	2020-07-09
Next Due Date:	2020-09-08

Page: 1 of 1

ATTN: Mr. W. K. Tang

Certificate of Calibration

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)	1.133
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PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	33783B
Date of Issue:	2020-07-09
Date Received:	2020-07-07
Date Tested:	2020-07-07
Date Completed:	2020-07-09
Next Due Date:	2020-09-08

Page: 1 of 1

ATTN: Mr. W. K. Tang

Certificate of Calibration

Item for Calibration:

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

Test Conditions:

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

Test Specifications & Methodology:

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

Results:

Correlation Factor (CF)	1.112
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PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	32049A
Date of Issue:	2019-09-16
Date Received:	2019-09-13
Date Tested:	2019-09-13
Date Completed:	2019-09-16
Next Due Date:	2020-09-15

Page: 1 of 1

ATTN: Mr. W. K. Tang

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 977
Serial No.	: 45482
Microphone No.	: 63626
Equipment No.	: N-08-14

Test conditions:

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

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	32667
Date of Issue:	2019-12-06
Date Received:	2019-12-04
Date Tested:	2019-12-04
Date Completed:	2019-12-06
Next Due Date:	2020-12-05

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ATTN: Mr. W. K. Tang

Certificate of Calibration

Item for calibration:

Description	: Sound & Vibration Analyser
Manufacturer	: BSWA
Model No.	: BSWA 801
Serial No.	: 35924
Equipment No.	: N-13-01

Test conditions:

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

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	32667B
Date of Issue:	2019-12-06
Date Received:	2019-12-04
Date Tested:	2019-12-04
Date Completed:	2019-12-06
Next Due Date:	2020-12-05

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ATTN: Mr. W. K. Tang

Certificate of Calibration

Item for calibration:

Description	: Sound & Vibration Analyser
Manufacturer	: BSWA
Model No.	: BSWA 801
Serial No.	: 35927
Equipment No.	: N-13-03

Test conditions:

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

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.: 33250D
Date of Issue: 2020-03-11
Date Received: 2020-03-10
Date Tested: 2020-03-10
Date Completed: 2020-03-11
Next Due Date: 2021-03-10

Page: 1 of 1

ATTN: Mr. W. K. Tang

Certificate of Calibration

Item for calibration:

Description : Sound Level Meter
Manufacturer : BSWA
Model No. : BSWA 308
Serial No. : 580007
Equipment No. : WN-01-05

Test conditions:

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

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

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



PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	31951-V1
Date of Issue:	2020-04-07
Date Received:	2019-08-16
Date Tested:	2019-08-16
Date Completed:	2019-08-20
Next Due Date:	2020-08-19
Page:	1 of 1

ATTN: Mr. W. K. Tang

Certificate of Calibration

Item for Calibration:

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

Test Conditions:

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

Methodology:

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

Results:

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

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.**


PATRICK TSE
Laboratory Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	33963
Date of Issue:	2020-08-21
Date Received:	2020-08-19
Date Tested:	2020-08-19
Date Completed:	2020-08-21
Next Due Date:	2021-08-20
Page:	1 of 1

ATTN: Mr. W. K. Tang

Certificate of Calibration

Item for Calibration:

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

Test Conditions:

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

Methodology:

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

Results:

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

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.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	32243
Date of Issue:	2019-09-30
Date Received:	2019-09-27
Date Tested:	2019-09-27
Date Completed:	2019-09-30
Next Due Date:	2020-09-29

Page: 1 of 1

ATTN: Mr. W. K. Tang

Certificate of Calibration

Item for calibration:

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

Test conditions:

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

Methodology:

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

Results:

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

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1701, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	32243A
Date of Issue:	2019-09-30
Date Received:	2019-09-27
Date Tested:	2019-09-27
Date Completed:	2019-09-30
Next Due Date:	2020-09-29

Page: 1 of 1

ATTN: Mr. W. K. Tang

Certificate of Calibration

Item for calibration:

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

Test conditions:

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

Methodology:

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

Results:

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

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


PATRICK TSE
General Manager

**APPENDIX D
ENVIRONMENTAL MONITORING
SCHEDULES**

Service Contract No. NDO 07/2019
Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Impact Air Quality, Noise and Ecological Monitoring Schedule (August 2020)

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

Remark: Due to COVID-19 cases, construction site was closed since 1 August 2020. Impact monitoring was then temporary suspended due to site close.

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, Noise and Ecological Monitoring Schedule (September 2020)

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

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

Air Quality Monitoring Station(s)

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

Noise Monitoring Station(s)

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

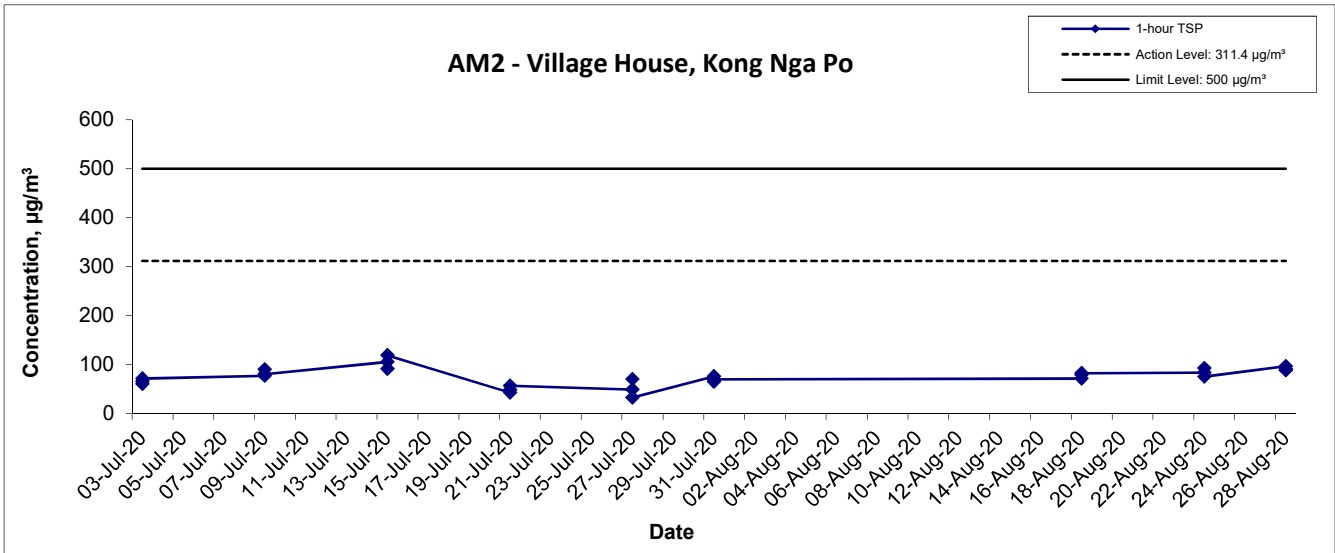
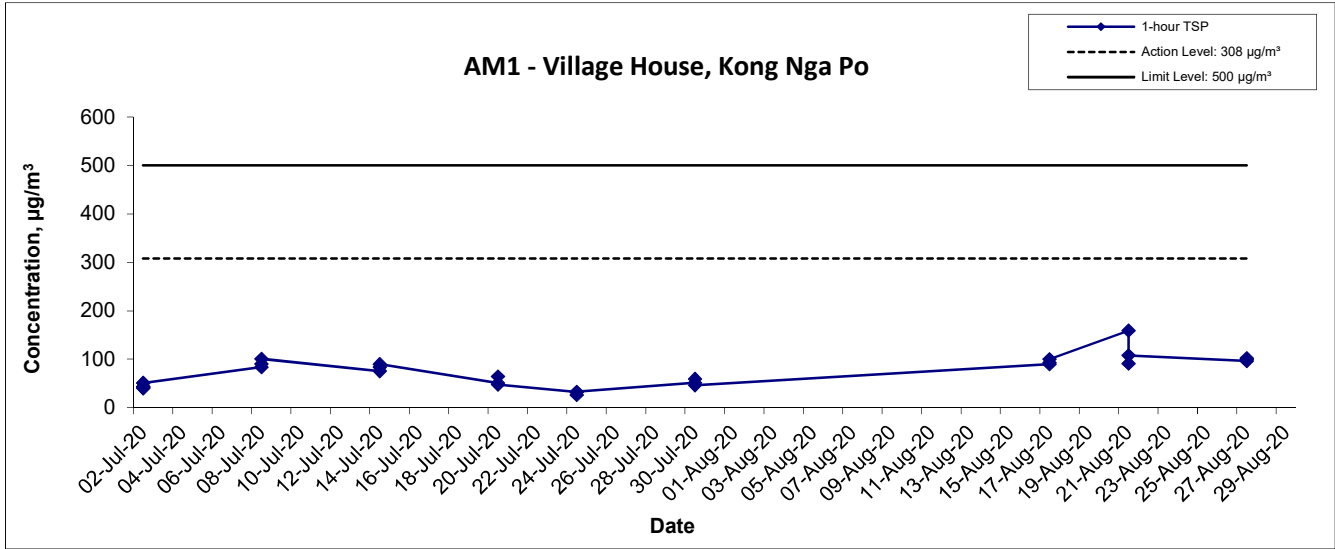
**APPENDIX E
AIR QUALITY MONITORING RESULTS
AND GRAPHICAL PRESENTATION**


Appendix E - 1-hour TSP Monitoring Results

Location AM1 - Village House, Kong Nga Po			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
17-Aug-20	9:00	Cloudy	89.7
17-Aug-20	10:00	Cloudy	93.0
17-Aug-20	11:00	Cloudy	100.6
21-Aug-20	9:00	Sunny	159.1
21-Aug-20	10:00	Sunny	91.3
21-Aug-20	11:00	Sunny	108.2
27-Aug-20	9:00	Cloudy	96.7
27-Aug-20	10:00	Cloudy	99.4
27-Aug-20	11:00	Cloudy	102.4
		Minimum	89.7
		Maximum	159.1
		Average	104.5

Location AM2 - Village House, Kong Nga Po			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
18-Aug-20	9:00	Cloudy	71.0
18-Aug-20	10:00	Cloudy	78.7
18-Aug-20	11:00	Cloudy	81.9
24-Aug-20	9:00	Sunny	83.6
24-Aug-20	10:00	Sunny	92.1
24-Aug-20	11:00	Sunny	75.2
28-Aug-20	13:00	Fine	96.0
28-Aug-20	14:00	Fine	87.7
28-Aug-20	15:00	Fine	90.4
		Minimum	71.0
		Maximum	96.0
		Average	84.1

1-hr TSP Concentration Levels



Title	Service Contract No. NDO 07/2019	Scale	Project No.	 consulting . testing . research
	Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	N.T.S	WMA20001	
Graphical Presentation of 1-hour TSP Monitoring Results		Date	Appendix	
		Aug 20	E	

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

Appendix F - Noise Monitoring Results

Location NM1 - Village House, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
21-Aug-20	Sunny	09:58	68.7	70.1	58.7	71.4	54.9
		10:03	72.3	75.6	59.9		
		10:08	73.8	74.7	59.0		
		10:13	71.1	73.9	51.0		
		10:18	71.1	73.6	61.7		
10:23	69.3	71.2	54.0				
27-Aug-20	Cloudy	08:15	70.3	71.9	60.5	71.1	
		08:20	71.8	73.6	61.7		
		08:25	70.7	72.3	60.9		
		08:30	70.8	72.6	60.9		
		08:35	71.6	73.1	61.3		
08:40	71.1	72.8	60.7				

Location NM2 - Village House, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
21-Aug-20	Sunny	10:09	60.1	63.3	54.8	60.1	56.7
		10:14	57.5	59.7	51.4		
		10:19	60.3	62.2	54.2		
		10:24	59.8	61.7	51.1		
		10:29	61.5	64.8	51.8		
10:24	60.4	63.3	52.8				
27-Aug-20	Cloudy	09:45	59.7	61.9	55.3	59.5	
		09:50	58.3	60.5	53.1		
		09:55	59.2	62.3	55.6		
		10:00	59.6	61.5	55.1		
		10:05	60.3	62.8	55.7		
10:10	59.8	61.6	55.3				

Location NM3 - Village House No. 248, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
21-Aug-20	Sunny	14:07	56.4	60.7	44.9	55.9	54.5
		14:12	57.9	61.5	48.2		
		14:17	57.9	62.7	47.1		
		14:22	54.2	57.4	46.4		
		14:27	54.9	59.2	46.3		
14:32	50.0	52.1	43.1				
27-Aug-20	Cloudy	10:25	56.1	58.3	45.6	56.2	
		10:30	56.5	58.7	45.7		
		10:35	56.7	58.8	45.9		
		10:40	55.9	57.3	44.6		
		10:45	55.5	57.1	44.5		
10:50	56.2	58.8	45.3				

Appendix F - Noise Monitoring Results

Location NM4 - Village House, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
21-Aug-20	Sunny	13:06	56.0	60.3	45.0	59.7	58.7
		13:11	57.4	61.6	43.7		
		13:16	58.1	62.0	43.4		
		13:21	58.2	60.7	55.4		
		13:26	58.3	60.8	55.2		
13:31	64.3	63.2	55.5				
27-Aug-20	Cloudy	11:00	59.3	61.5	48.6	59.3	
		11:05	58.7	60.9	48.1		
		11:10	58.9	61.3	48.2		
		11:15	58.5	60.8	48.1		
		11:20	59.7	62.4	48.7		
		11:25	60.3	62.2	48.5		

Location NM5 - Village House No. 270, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
21-Aug-20	Sunny	11:25	58.7	59.7	48.1	55.2	57.0
		11:30	53.6	57.0	47.1		
		11:35	54.1	57.2	47.0		
		11:40	51.8	55.3	41.8		
		11:45	54.8	59.3	43.4		
11:50	54.7	59.4	47.2				
27-Aug-20	Cloudy	14:45	59.3	60.8	47.6	57.0	
		14:50	55.7	58.1	47.3		
		14:55	55.8	58.3	47.2		
		15:00	56.3	59.1	48.3		
		15:05	57.6	59.4	48.5		
		15:10	56.4	58.7	48.1		

Location NM6 - Village House, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
21-Aug-20	Sunny	13:15	57.4	59.7	38.0	54.4	56.0
		13:20	51.8	57.1	40.4		
		13:25	51.7	53.9	39.2		
		13:30	54.7	58.5	39.7		
		13:35	53.9	57.5	40.0		
13:40	54.5	58.5	41.3				
27-Aug-20	Cloudy	13:05	57.3	58.7	50.3	55.4	
		13:10	57.1	58.5	50.1		
		13:15	55.4	57.7	50.1		
		13:20	52.9	54.8	49.2		
		13:25	53.6	55.1	49.8		
		13:30	53.8	55.3	49.9		

Appendix F - Noise Monitoring Results

Location NM7 - Village House, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
21-Aug-20	Sunny	10:41	48.2	52.0	40.0	51.6	49.8
		10:46	46.4	50.3	38.0		
		10:51	43.4	45.8	37.5		
		10:56	47.1	50.9	39.0		
		11:01	54.1	56.1	39.2		
11:06	56.3	57.1	41.2				
27-Aug-20	Cloudy	14:00	53.1	55.8	48.5	54.4	
		14:05	52.9	55.6	48.3		
		14:10	55.8	57.3	49.1		
		14:15	55.6	56.9	48.8		
		14:20	53.7	55.5	48.3		
14:25	54.1	55.8	48.7				

Location NM8 - Village House, Sha Ling							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
18-Aug-20	Cloudy	11:30	55.1	56.2	49.2	54.8	57.6
		11:35	54.6	55.8	48.3		
		11:40	54.9	56.0	48.3		
		11:45	54.2	55.7	48.1		
		11:50	55.3	56.4	48.6		
11:55	54.5	56.1	49.3				
24-Aug-20	Sunny	11:25	52.6	55.9	42.0	52.8	
		11:30	53.4	55.8	41.5		
		11:35	52.5	56.3	40.3		
		11:40	52.6	54.1	41.4		
		11:45	53.0	54.3	40.3		
11:50	52.9	55.2	42.3				

Location NM9 - Village House, Kong Nga Po							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
18-Aug-20	Cloudy	09:20	53.6	55.5	46.4	54.7	55.9
		09:25	55.3	57.9	47.2		
		09:30	54.4	56.3	46.9		
		09:35	55.1	57.3	46.9		
		09:40	55.2	57.6	47.4		
09:45	54.5	56.5	47.0				
24-Aug-20	Sunny	10:45	57.2	62.3	45.7	56.3	
		10:50	56.8	60.9	43.6		
		10:55	56.8	59.0	45.1		
		11:00	56.7	59.8	47.0		
		11:05	55.1	58.1	40.9		
11:10	54.3	58.7	41.7				

Appendix F - Noise Monitoring Results

Location NM10 - Village House, Kong Nga Po							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
21-Aug-20	Sunny	10:58	55.1	58.8	49.9	53.0	52.8
		11:03	53.1	55.4	50.7		
		11:08	53.4	55.5	50.4		
		11:13	52.7	54.7	50.0		
		11:18	52.6	55.2	48.2		
11:23	49.5	51.5	46.9				
27-Aug-20	Cloudy	09:00	56.5	57.3	50.1	54.9	
		09:05	55.7	57.1	50.3		
		09:10	55.3	56.4	49.8		
		09:15	53.8	55.3	49.1		
		09:20	53.6	55.2	49.1		
		09:25	53.2	54.9	48.5		

Location NM11 - Village House, Kong Nga Po							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
18-Aug-20	Cloudy	14:10	45.7	47.8	41.2	45.3	46.4
		14:15	42.6	44.5	40.9		
		14:20	46.3	48.0	41.4		
		14:25	46.0	47.9	41.8		
		14:30	44.3	45.9	40.5		
		14:35	45.9	47.9	42.1		
24-Aug-20	Sunny	10:00	53.7	54.2	53.1	54.0	
		10:05	54.3	55.0	52.9		
		10:10	53.8	54.3	53.2		
		10:15	53.9	54.5	53.2		
		10:20	54.3	55.1	53.0		
		10:25	53.7	54.5	52.9		

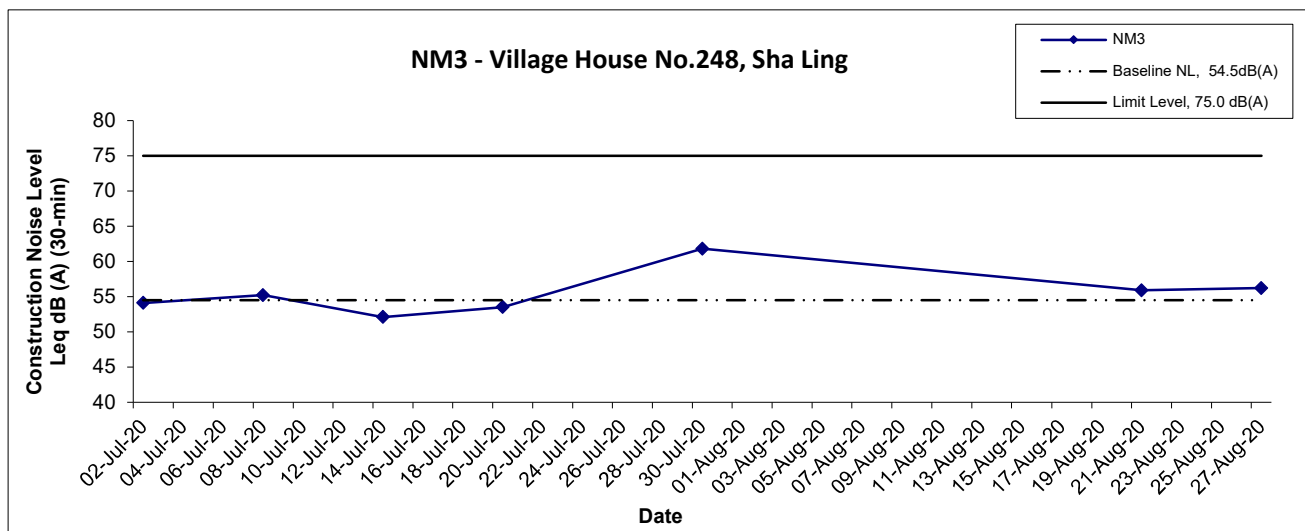
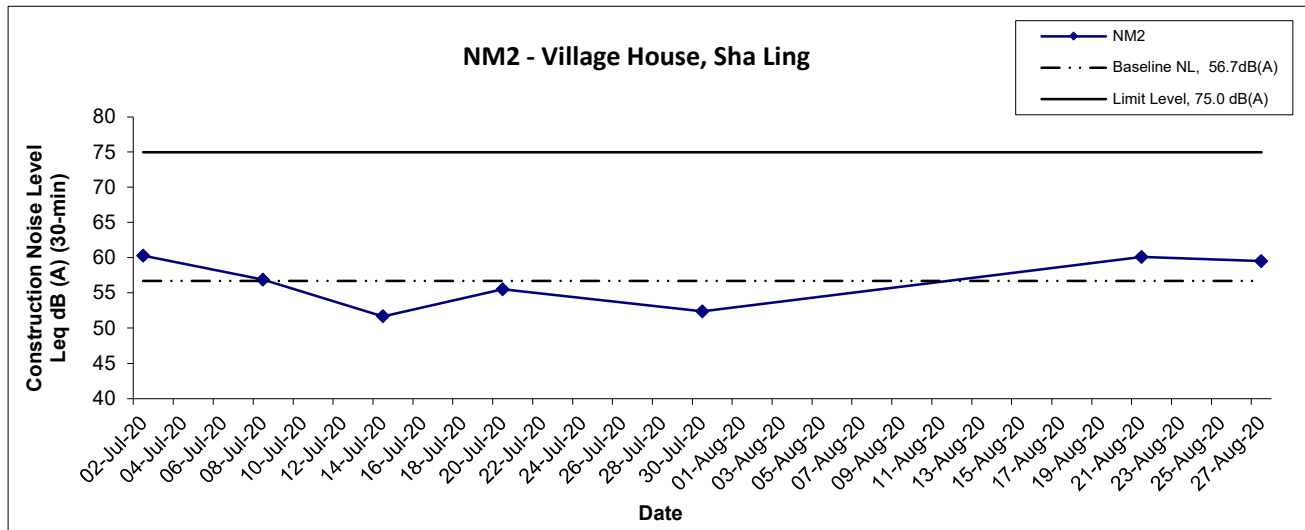
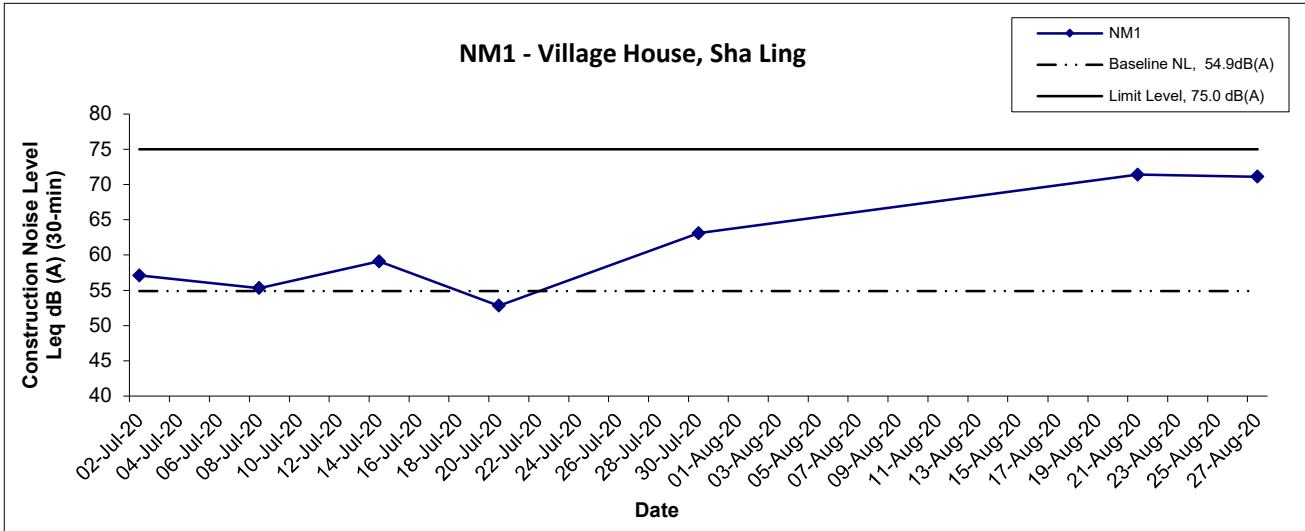
Location NM12 - Village House, Kong Nga Po							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
18-Aug-20	Cloudy	11:25	55.4	56.9	52.3	55.4	54.7
		11:30	55.8	57.2	52.5		
		11:35	56.3	57.6	52.7		
		11:40	55.1	56.7	52.2		
		11:45	54.7	55.9	51.8		
		11:50	55.2	56.9	52.6		
24-Aug-20	Sunny	09:05	52.8	53.3	52.0	52.9	
		09:10	52.3	52.7	51.8		
		09:15	53.4	54.9	51.8		
		09:20	53.0	54.1	51.7		
		09:25	52.8	53.9	51.2		
		09:30	53.3	54.1	51.1		

Appendix F - Noise Monitoring Results

Location NM13 - Village House, Kong Nga Po							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
18-Aug-20	Cloudy	10:10	50.1	51.8	44.0	51.2	61.3
		10:15	49.9	51.2	44.1		
		10:20	51.7	53.1	45.2		
		10:25	51.4	52.8	43.8		
		10:30	51.7	53.2	44.5		
		10:35	51.9	53.6	44.6		
24-Aug-20	Sunny	10:00	45.7	47.7	42.0	45.1	
		10:05	45.2	48.1	43.0		
		10:10	44.6	45.5	42.2		
		10:15	45.3	47.5	41.9		
		10:20	45.0	46.3	40.9		
		10:25	44.7	46.8	41.4		

Location NM14 - Village House, near Man Kam To Road							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
18-Aug-20	Cloudy	13:20	55.2	56.7	46.9	52.6	59.6
		13:25	52.1	54.2	44.3		
		13:30	51.9	53.2	43.9		
		13:35	52.5	54.6	44.4		
		13:40	50.7	53.1	44.2		
		13:45	51.8	54.2	44.5		
24-Aug-20	Sunny	09:15	48.7	51.2	44.2	53.1	
		09:20	49.0	52.1	44.1		
		09:25	57.5	62.5	44.5		
		09:30	55.4	61.5	46.3		
		09:35	49.6	51.4	43.7		
		09:40	48.2	49.9	42.4		

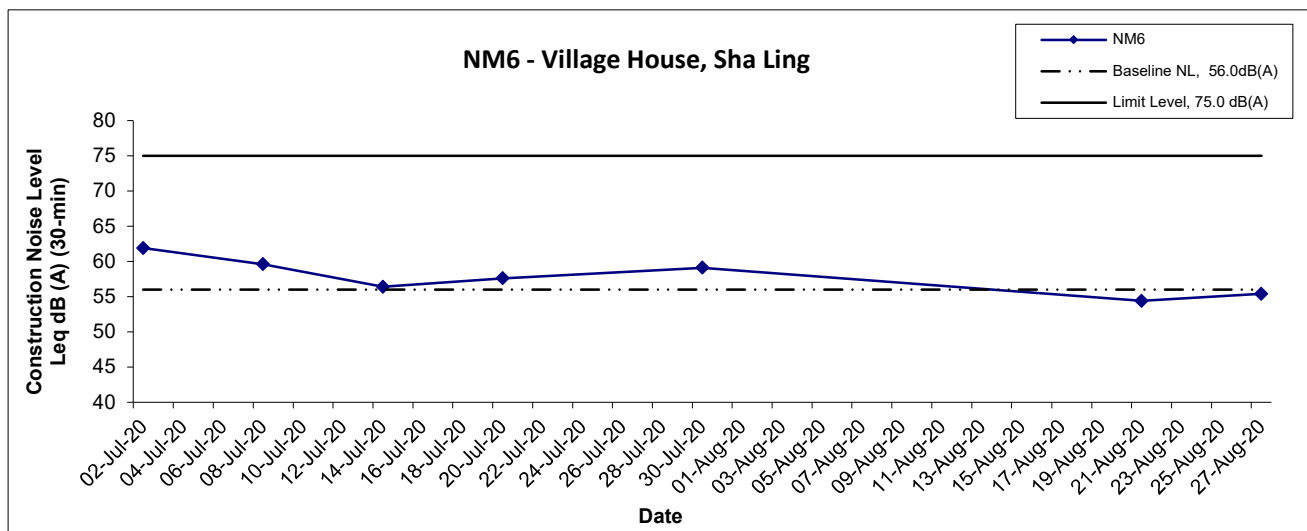
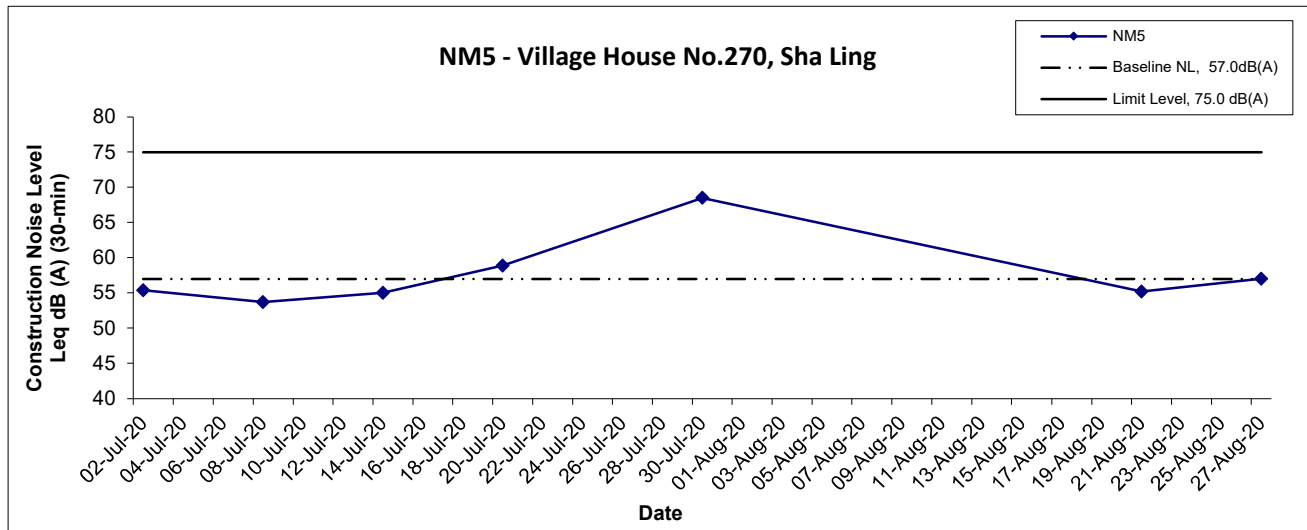
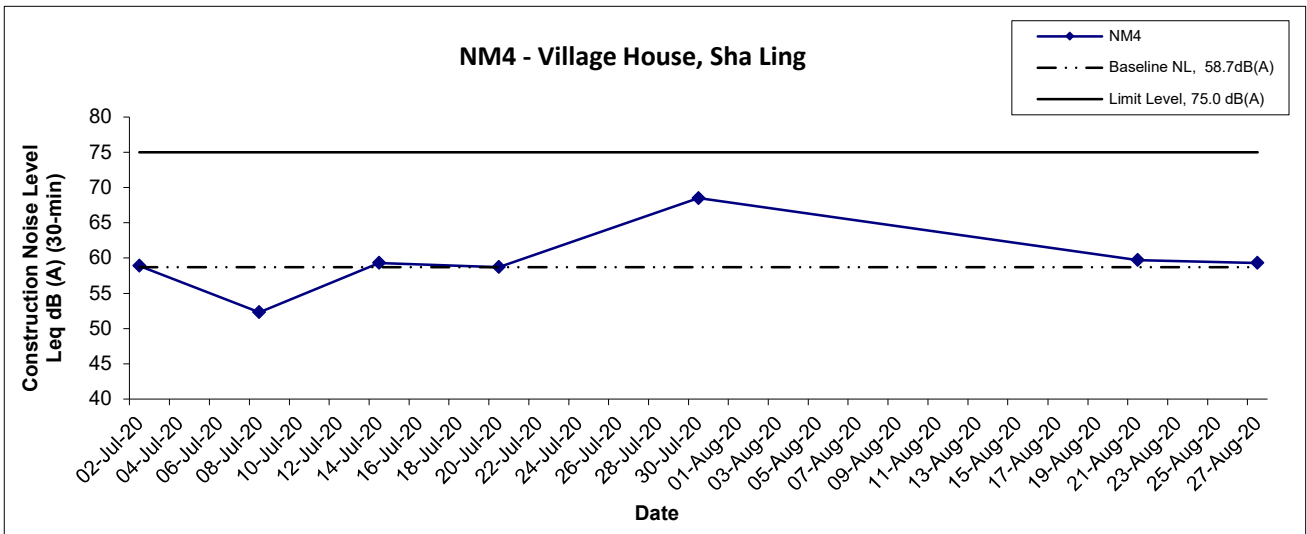
Noise Levels



Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	Scale	N.T.S	Project No.	WMA20001
	Date	Aug 20	Appendix	F



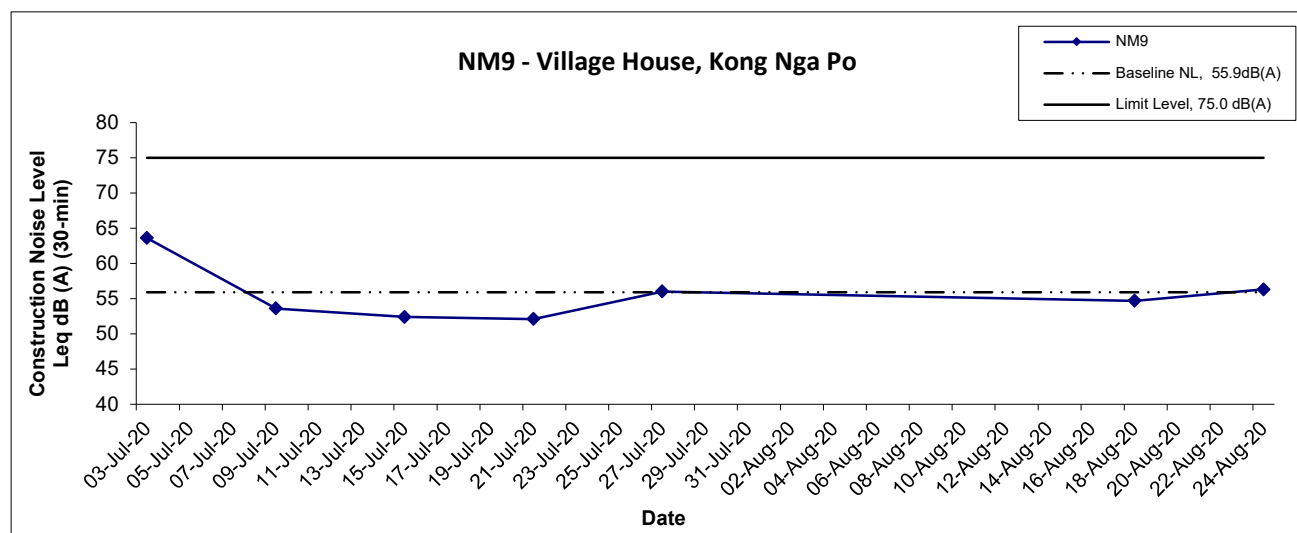
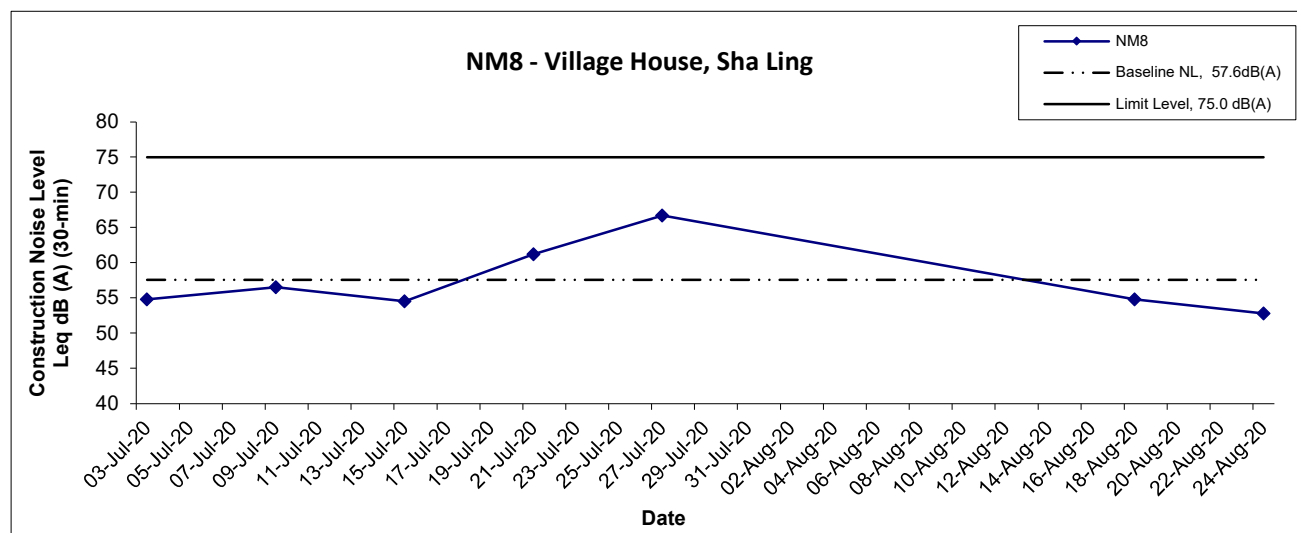
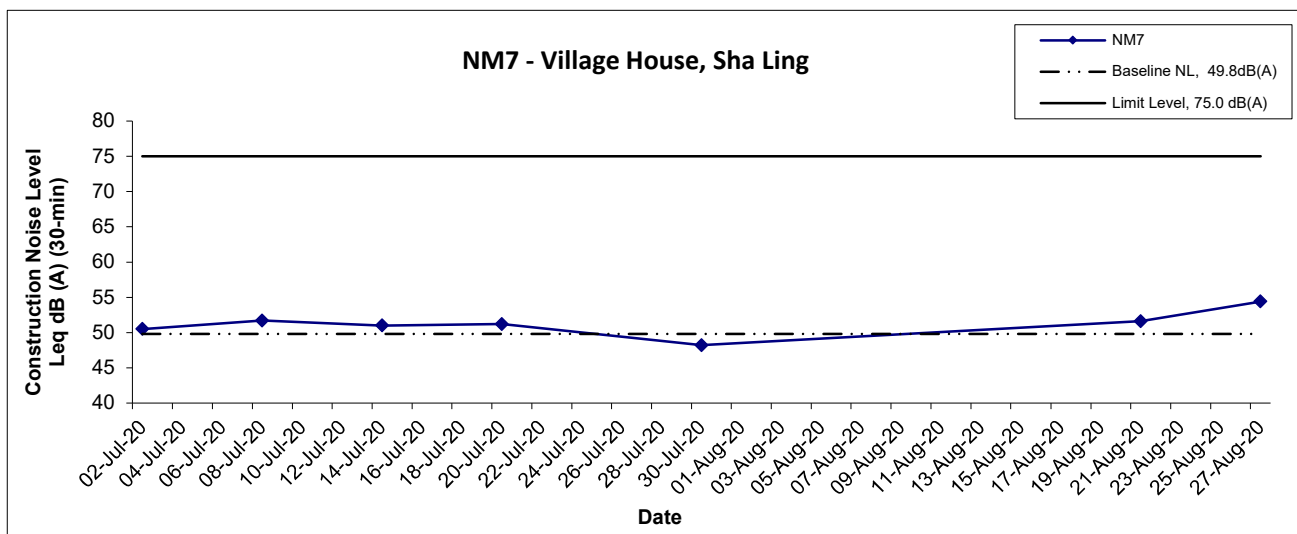
Noise Levels



Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	Scale	N.T.S	Project No.	WMA20001
	Date	Aug 20	Appendix	F



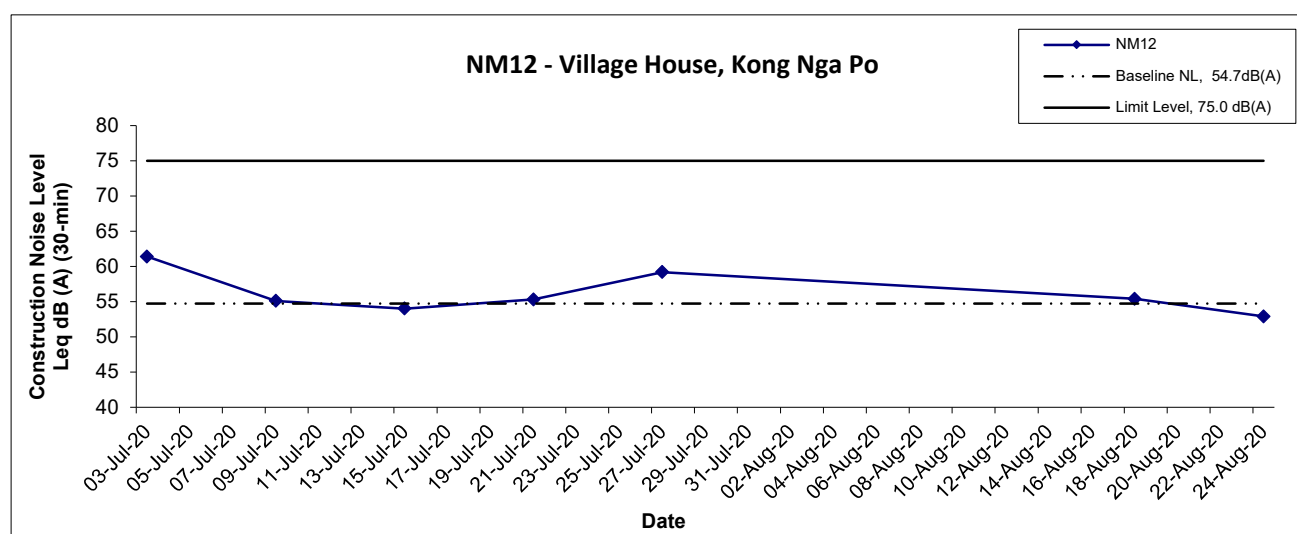
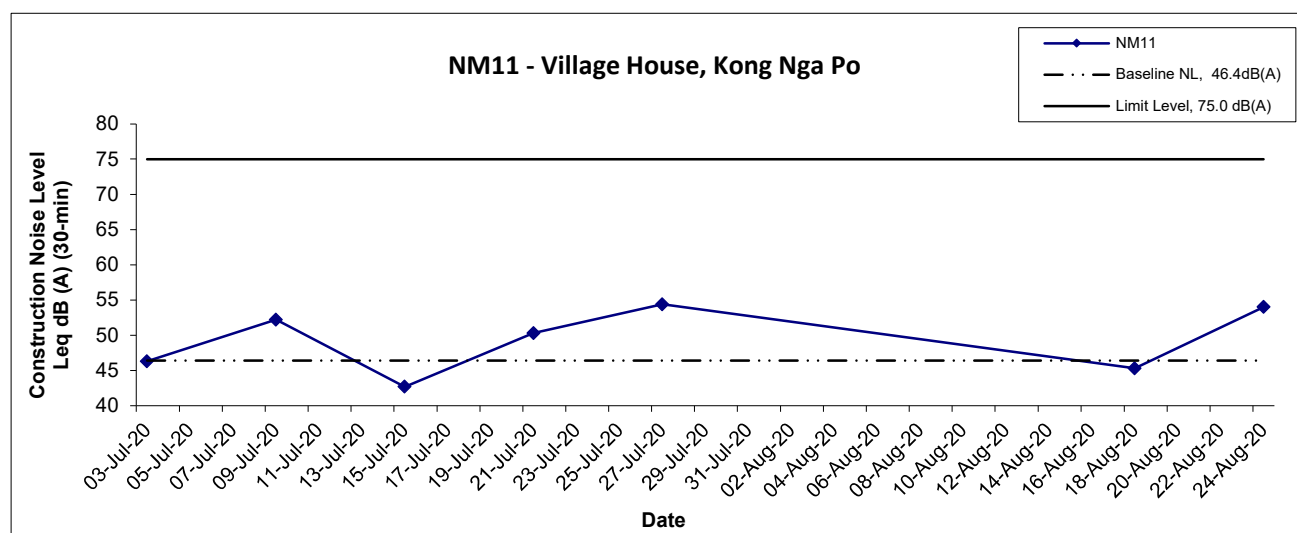
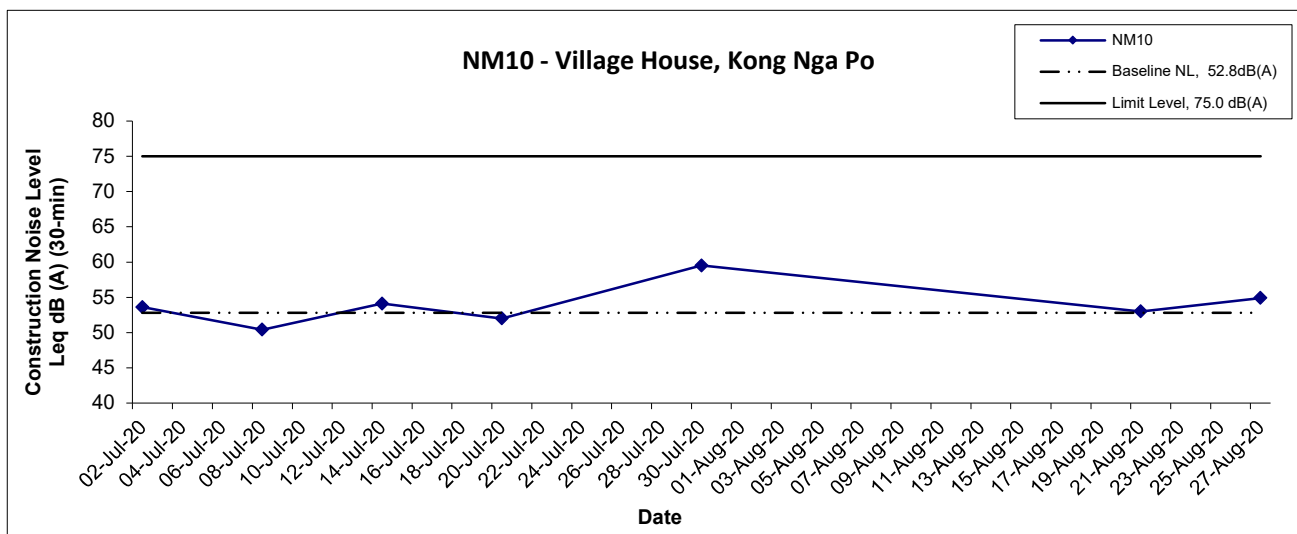
Noise Levels



Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	Scale	N.T.S	Project No.	WMA20001
	Date	Aug 20	Appendix	F

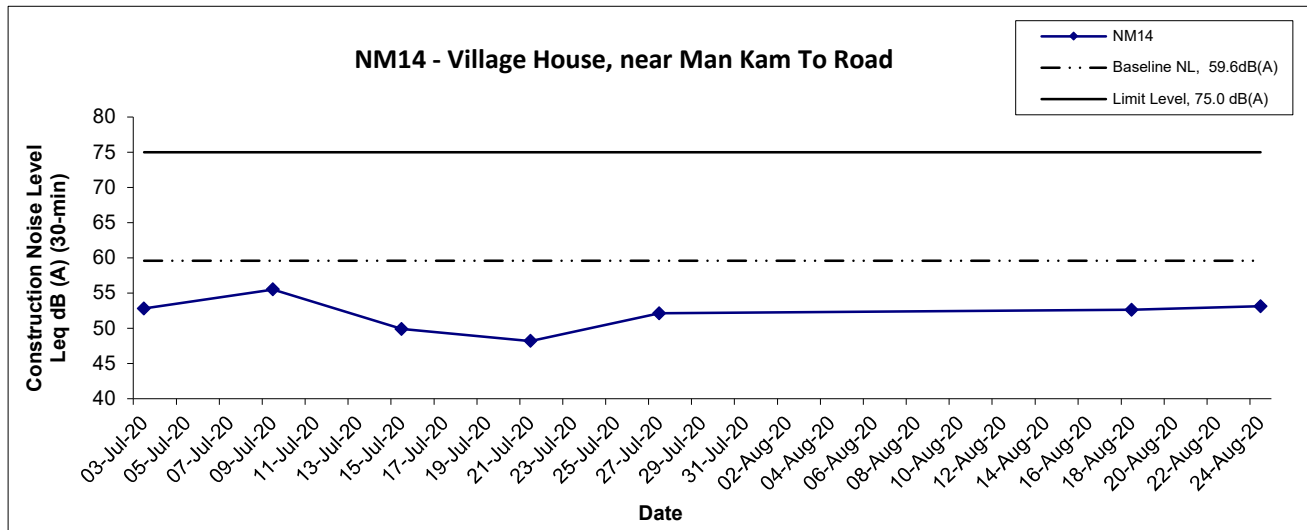
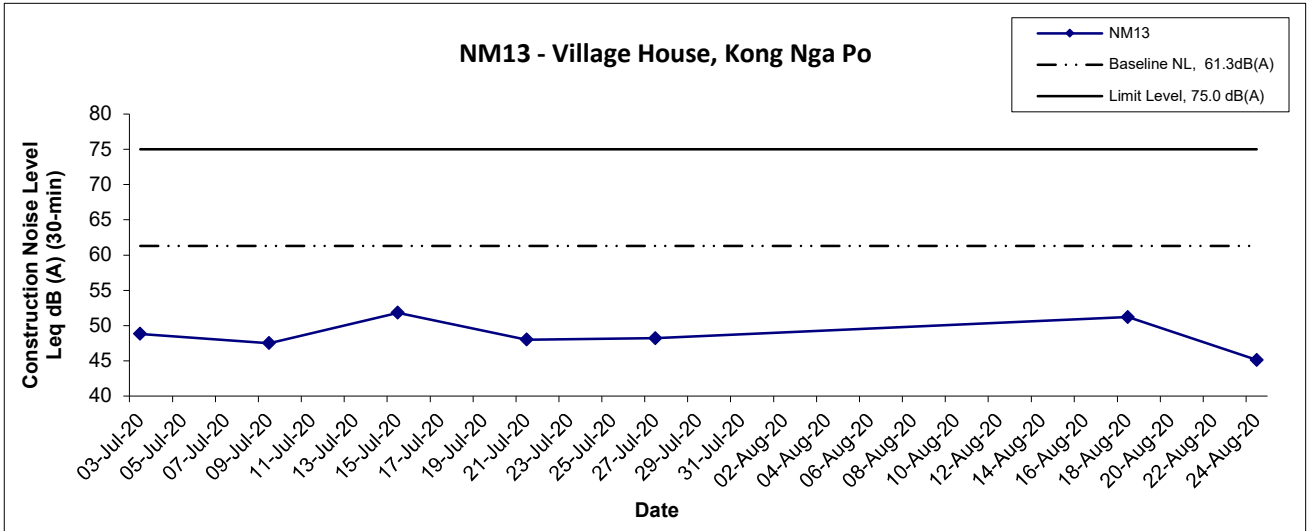


Noise Levels



Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	Scale	Project No.	consulting . testing . research
	N.T.S	WMA20001	
	Date	Appendix	
	Aug 20	F	

Noise Levels



Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. WMA20001	consulting . testing . research
	Date Aug 20	Appendix F	

**APPENDIX G
WEATHER CONDITION**

Appendix G – General Weather Conditions during the Monitoring Period (August 2020)

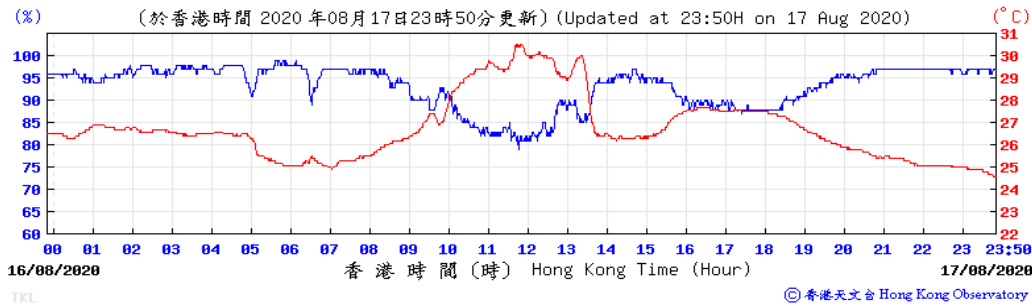
Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 Aug 2020	27.7	87	28.3
2 Aug 2020	27.5	89	25.6
3 Aug 2020	26.5	93	46.9
4 Aug 2020	27.5	87	4.7
5 Aug 2020	27.8	88	53.3
6 Aug 2020	29.1	85	1.7
7 Aug 2020	30.1	80	0.2
8 Aug 2020	30.5	76	-
9 Aug 2020	29.9	76	-
10 Aug 2020	30	76	-
11 Aug 2020	30.3	78	0.6
12 Aug 2020	27.8	88	29.4
13 Aug 2020	28.1	86	16.5
14 Aug 2020	29.3	80	9.3
15 Aug 2020	29.8	76	-
16 Aug 2020	30.1	76	Trace
17 Aug 2020	28.2	84	16.6

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
18 Aug 2020	27.3	85	52.7
19 Aug 2020	26.6	91	119.5
20 Aug 2020	29	83	Trace
21 Aug 2020	29.8	77	-
22 Aug 2020	29.7	77	-
23 Aug 2020	29.8	77	-
24 Aug 2020	30.2	76	-
25 Aug 2020	30.6	77	1.1
26 Aug 2020	29.7	81	12.3
27 Aug 2020	28.5	83	3.1
28 Aug 2020	28.9	82	22.6
29 Aug 2020	29.9	77	3.2
30 Aug 2020	29.6	80	0.6
31 Aug 2020	29.8	76	0.2

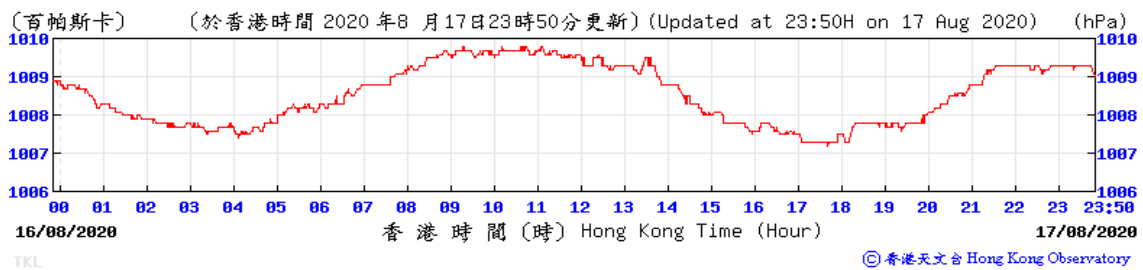
* The above information was extracted from the daily weather summary by Hong Kong Observatory.

17 August 2020

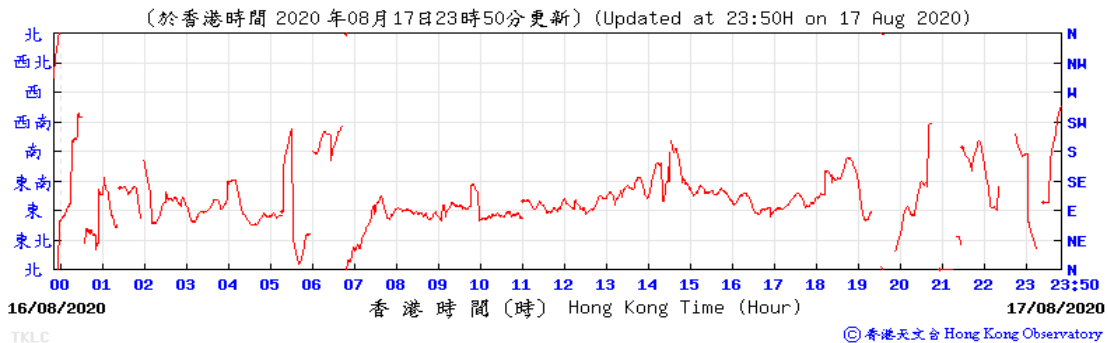
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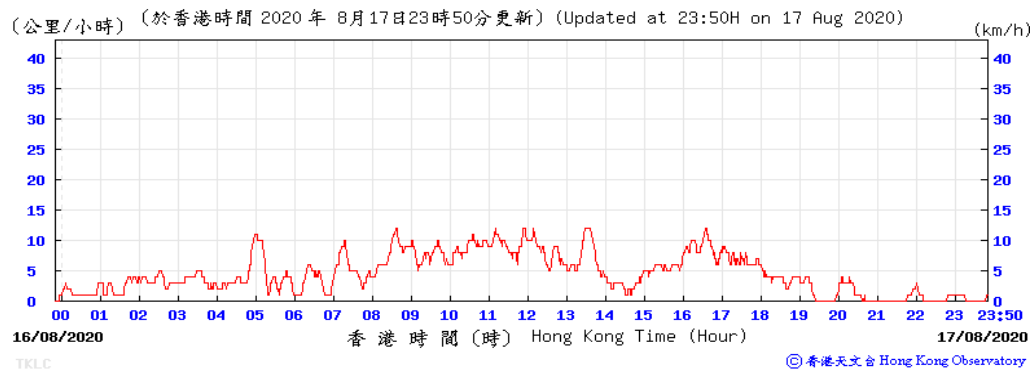
Pressure:




Wind Direction:



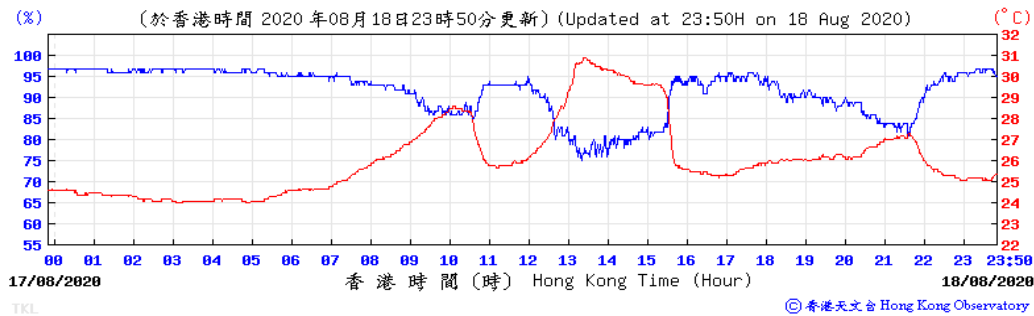
Wind Speed:



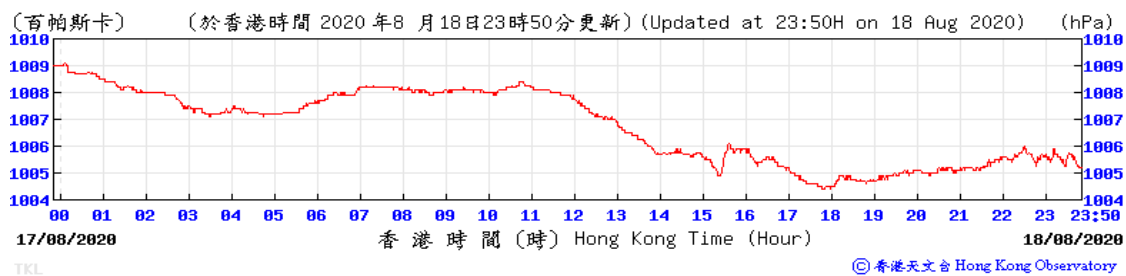
Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale N.T.S	Project No. WMA20001	 consulting . testing . research
	Date Aug 20	Appendix G	

18 August 2020

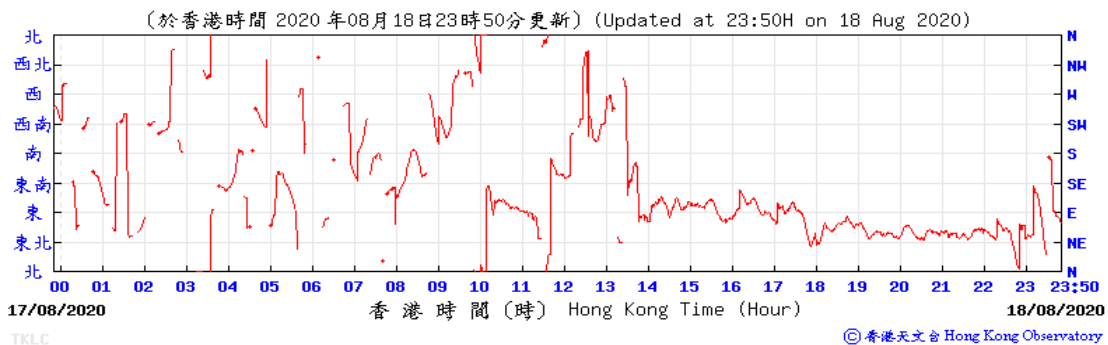
Temperature/Humidity:



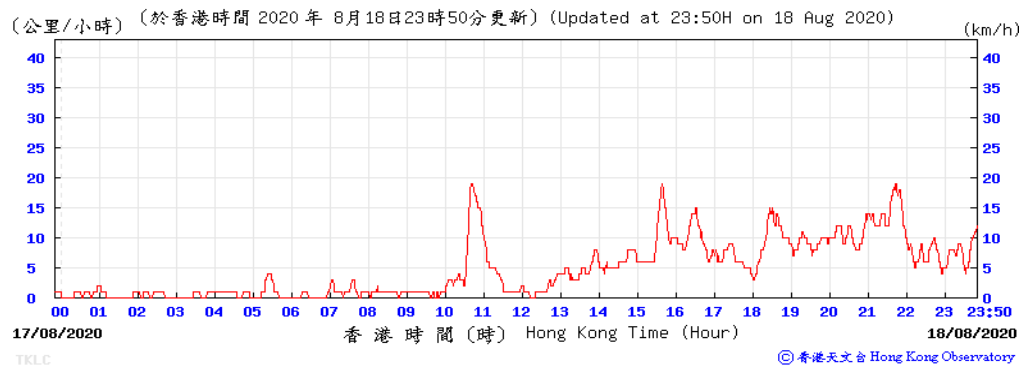
Pressure:




Wind Direction:



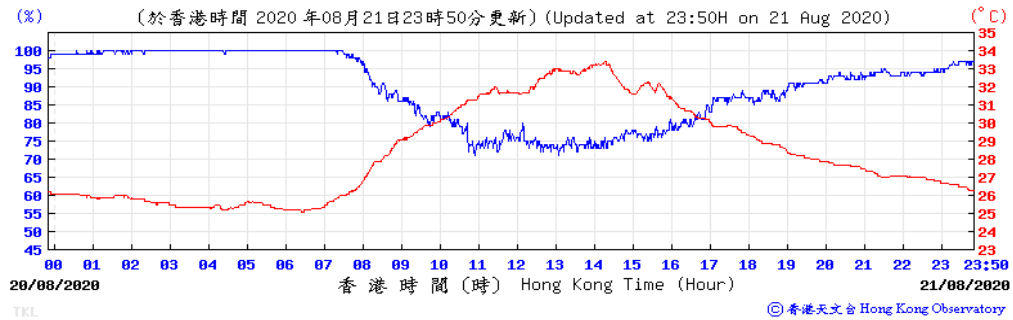
Wind Speed:



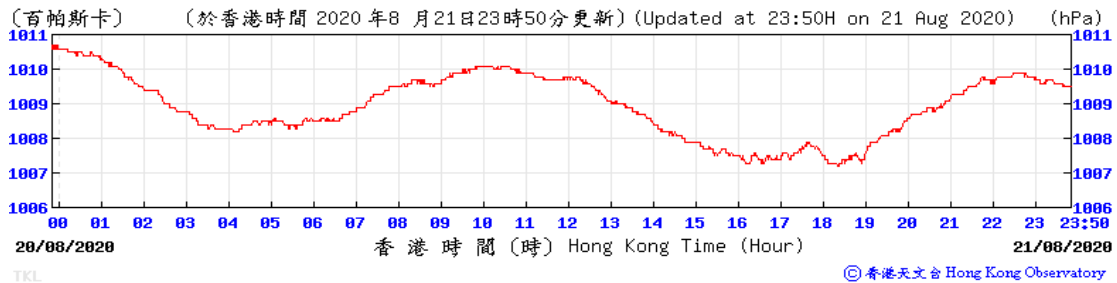
Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale N.T.S	Project No. WMA20001	 consulting . testing . research
	Date Aug 20	Appendix G	

21 August 2020

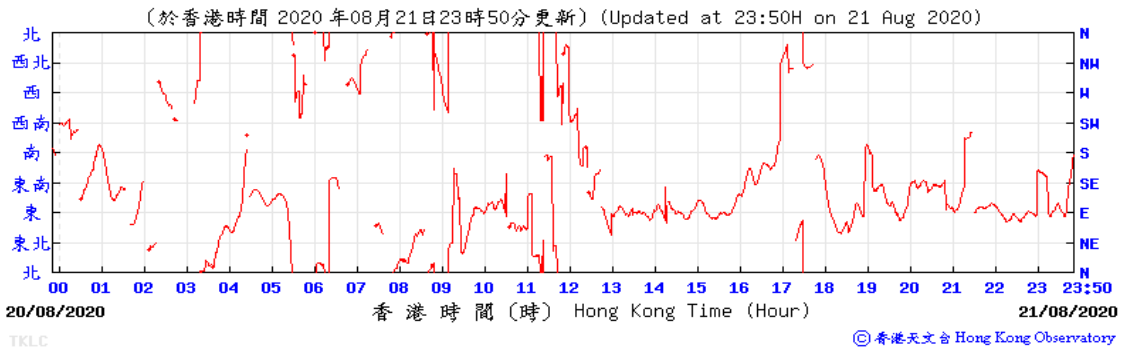
Temperature/Humidity:



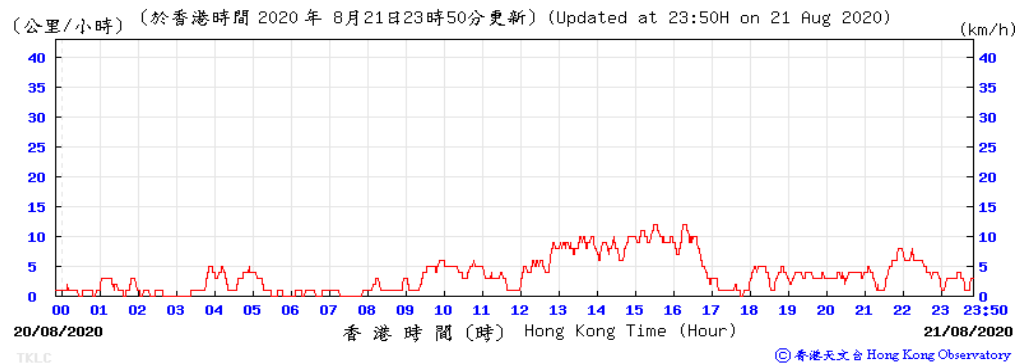
Pressure:




Wind Direction:



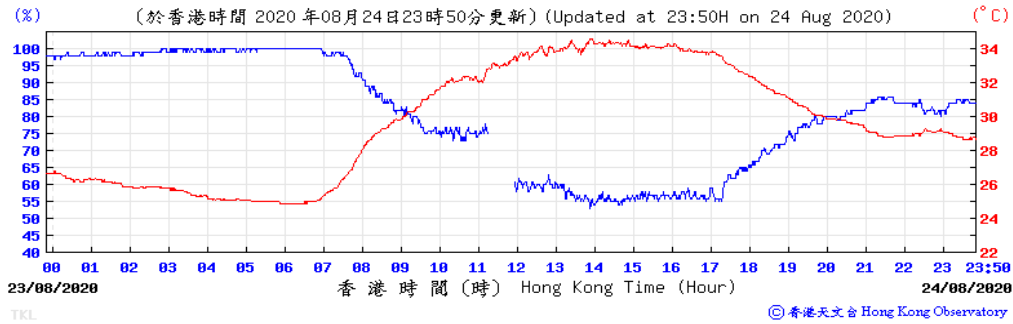
Wind Speed:



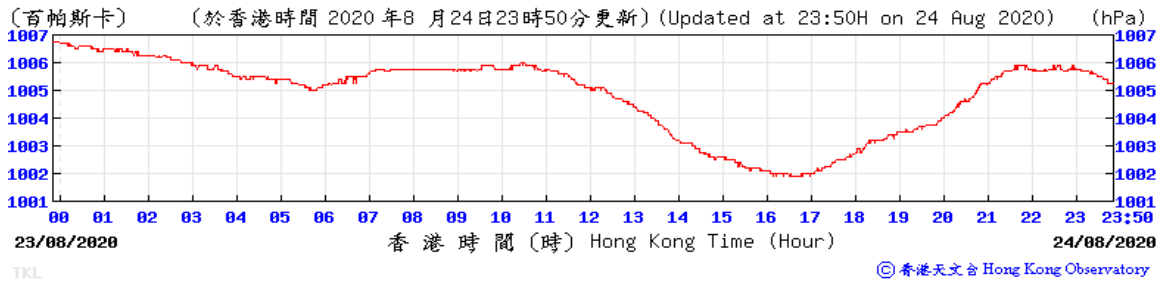
Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale N.T.S	Project No. WMA20001	 consulting . testing . research
	Date Aug 20	Appendix G	

24 August 2020

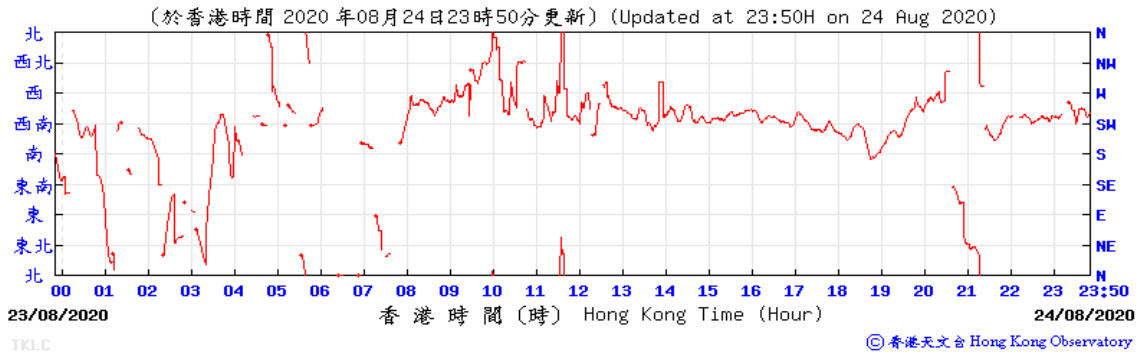
Temperature/Humidity:



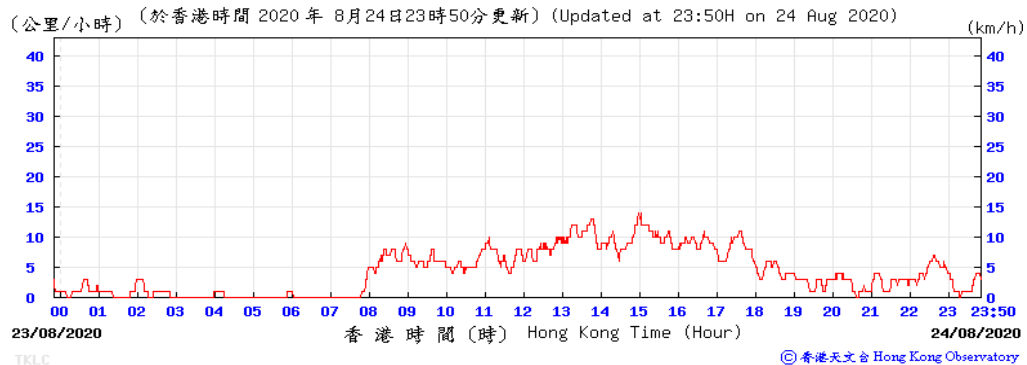
Pressure:




Wind Direction:



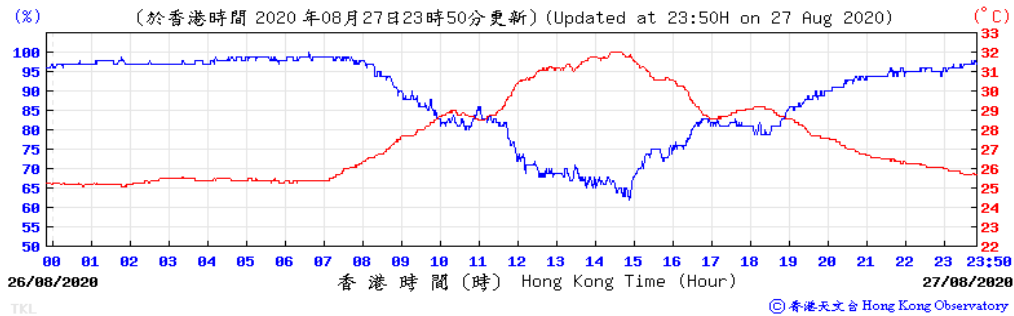
Wind Speed:



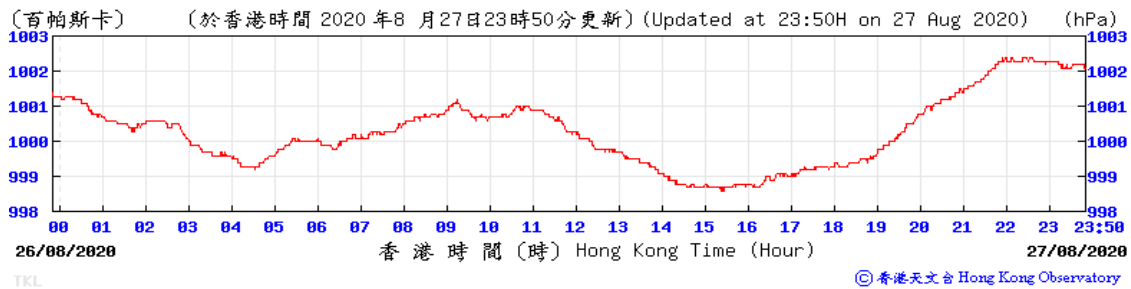
Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale N.T.S	Project No. WMA20001	 consulting . testing . research
	Date Aug 20	Appendix G	

27 August 2020

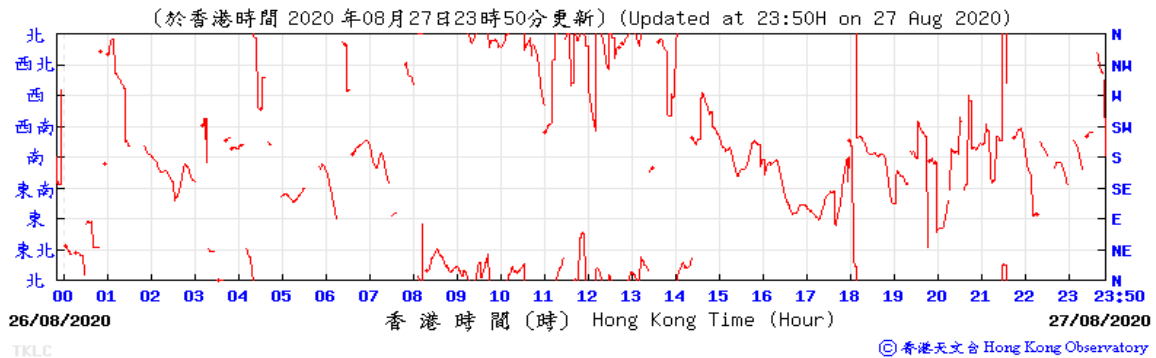
Temperature/Humidity:



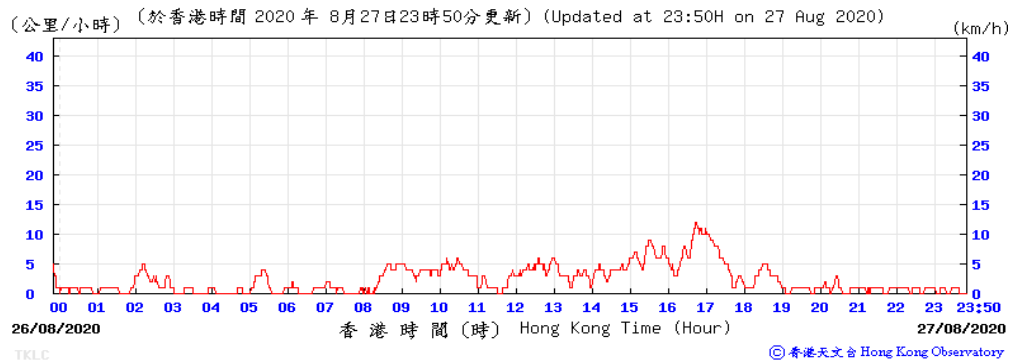
Pressure:




Wind Direction:



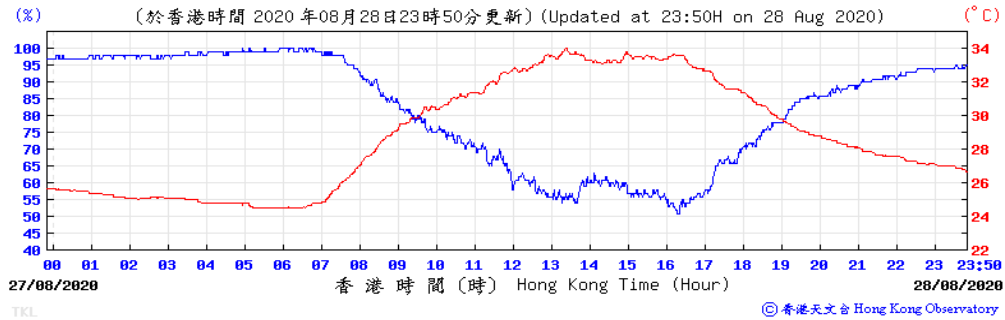
Wind Speed:



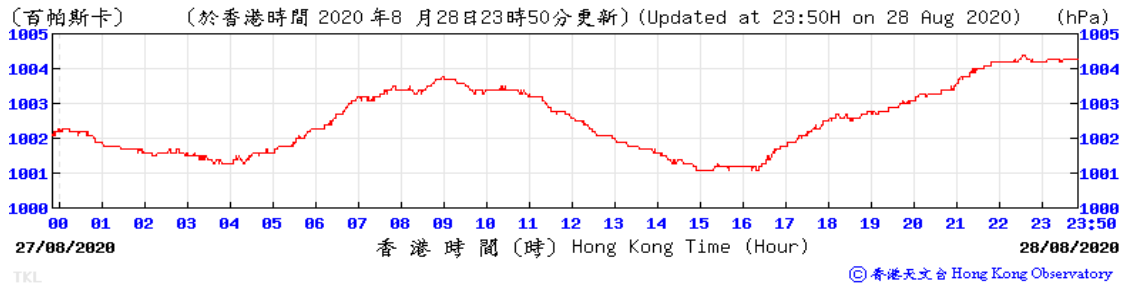
Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale N.T.S	Project No. WMA20001	 consulting . testing . research
	Date Aug 20	Appendix G	

28 August 2020

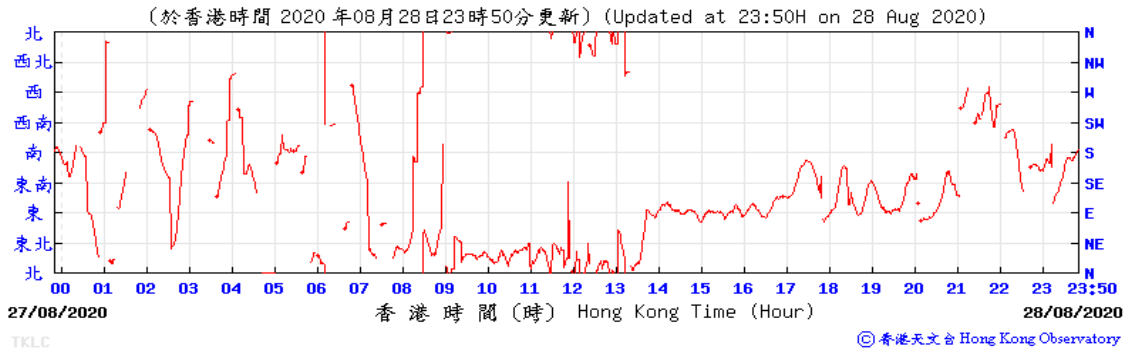
Temperature/Humidity:



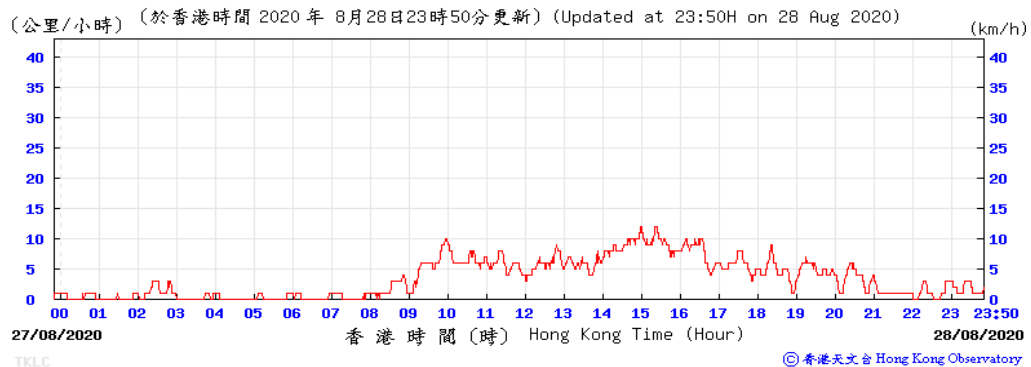
Pressure:



Wind Direction:



Wind Speed:



Title Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Meteorological Data at Ta Kwu Ling Weather Station	Scale N.T.S	Project No. WMA20001	
	Date Aug 20	Appendix G	

**APPENDIX H
ECOLOGICAL MONITORING RESULTS**

Appendix H – Ecological Monitoring Results – Implementation Schedule (IS)

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in this Transplantation Proposal	Implementation Status
<p>Identification of Plant Species of Conservation Importance to be Retained / Transplanted</p> <p>To mark trees/plants proposed to be retained and to be transplanted on the layout plan prior to commencement of site construction works.</p>	<p>To identify the plant species of conservation importance and ensure no plant species of conservation importance / retained tree will be affected.</p>	<p>Contractor / Resident Site Engineer / ET / IEC</p>	<p>Project Site Area(s)</p>	<p>During design stage / throughout construction stage / Until completion of all construction activities</p>	<p>Refers to para(s) 5.1 of the Transplantation Proposal</p>	<p>^</p>
<p>Protection of Plant Species of Conservation Importance prior to Site Clearance / Transplantation Works</p> <p>a) No site clearance shall be started at the locations of flora species of conservation interest until the transplantation works completed.</p> <p>b) Set up buffer zone to enhance the protection of flora species of</p>	<p>To make sure that the flora species of conservation interest are not affected by the site clearance works of the Project</p>	<p>Contractor / Resident Site Engineer / ET / IEC</p>	<p>Location(s) of Plant Species of Conservation Importance and Transplantation Area(s) for Plant Species of Conservation Importance</p>	<p>Prior to Site Clearance / Transplantation Works</p>	<p>Refers to para(s) 2.11 and 2.12 of the Transplantation Proposal</p>	<p>^</p>

Appendix H – Ecological Monitoring Results – Implementation Schedule (IS)

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in this Transplantation Proposal	Implementation Status
<p>conservation importance to be preserved / transplanted including the proposed location for transplantation when the site clearance works shall commence before the transplantation works completed.</p>						
<p>Temporary Protective Fence for Flora Species of Conservation Interest / Retained Tree</p> <p>a) To erect a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey.</p> <p>b) To set up a protection zone at least 1m from the plant / retained tree and erect robust,</p>	<p>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</p>	<p>Contractor / Resident Site Engineer / ET / IEC</p>	<p>Location(s) of Plant Species of Conservation Importance / Retained Tree</p>	<p>Throughout construction stage / Until completion of all construction activities</p>	<p>Refers to para(s) 2.7, 4.41 and 5.1 of the Transplantation Proposal</p>	<p>^</p> <p>^</p>

Appendix H – Ecological Monitoring Results – Implementation Schedule (IS)

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in this Transplantation Proposal	Implementation Status
bright-coloured fencing of 1.5m in height.	construction activities of the Project					
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.	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	Contractor / Resident Site Engineer / ET / IEC	Location(s) of Plant Species of Conservation Importance / Retained Tree	Throughout construction stage / Until completion of all construction activities	Refers to para(s) 2.7, 4.41 and 5.1 of the Transplantation Proposal	^ ^
Post-transplantation Monitoring a) Weekly post-transplantation monitoring of transplanted	To allow early detection of the growth status of transplanted species,	Contractor / Resident Site Engineer / ET /	Location(s) of transplanted species	The first year of establishment period after	Refers to para(s) 4.38 to 4.40 and 4.42 of the	^

Appendix H – Ecological Monitoring Results – Implementation Schedule (IS)

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in this Transplantation Proposal	Implementation Status
species in the first three months and monthly afterwards.	sign of construction activity within and nearby the receptor site, and any environmental change of the receptor site.	IEC		transplantation	Transplantation Proposal	
Maintenance of Transplanted Species a) To keep the soil moist by watering the receptor sites properly and adequately. b) To apply mulches on the soil surface over the plant root system, if required. c) To remove unwanted weeds found in receptor sites.	To allow health growth of the transplanted species.	Contractor / Resident Site Engineer / ET / IEC	Location(s) of transplanted species	The first year of establishment period after transplantation	Refers to para(s) 4.43 to 4.46 of the Transplantation Proposal	^ ^ ^
Other Protection Measures for Flora Species of Conservation Interest / Retained Tree /	To avoid potential impact on Flora Species of Conservation Interest	Contractor / Resident Site Engineer / ET /	Project Site Area(s)	Throughout construction stage / Until completion	Refers to para(s) 5.1 of the Transplantation	

Appendix H – Ecological Monitoring Results – Implementation Schedule (IS)

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in this Transplantation Proposal	Implementation Status
<p>Vegetated Areas</p> <p>a) All works should be confined within the site boundary.</p> <p>b) Access of site staff should be controlled.</p> <p>c) Care should be taken to prevent trees/plants being damaged by mechanical equipment or stockpile both during site clearance works and construction works.</p> <p>d) No fixings should be driven into trees/plants.</p> <p>e) No workshop, canteens, or similar should be installed beneath trees/plants, nor will equipment maintenance etc. be carried out under trees/plants.</p> <p>f) No excavation, including that</p>	<p>/ Retained Tree / Vegetated Areas from construction activities of the Project</p>	<p>IEC</p>		<p>of all construction activities</p>	<p>Proposal</p>	<p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p>

Appendix H – Ecological Monitoring Results – Implementation Schedule (IS)

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in this Transplantation Proposal	Implementation Status
<p>for services or changes in ground level will take place within the spread of the crown of the trees / plants.</p> <p>g) No soil, debris or construction materials should be deposited around and against the trunk of a tree/plant as this causes bark damage and compaction of the soil.</p> <p>h) No fire should be lit below the branches and no petrol, oil or caustic substances stored near the trees/plants.</p> <p>i) No trees/plants should be used for anchoring or winching purposes or for the display of signs.</p> <p>j) Any damage or injury to the</p>						<p>^</p> <p>^</p> <p>^</p> <p>^</p>





Appendix H – Ecological Monitoring Results – Implementation Schedule (IS)

Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in this Transplantation Proposal	Implementation Status
retained / transplanted plants should be reported as soon as possible for repair immediately.						

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

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 17th August 2020

1. Cycad-Fern *Brainea insignis*

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

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 17th August 2020

2. Ladies Tresses *Spiranthes sinensis*

Photo 5



Description: General view of transplanted *Spiranthes sinensis*.

Photo 6



Description: General view of transplanted *Spiranthes sinensis*.

Photo 7



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

Photo 8



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

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 17th August 2020

3. Fortune's Keteleeria *Keteleeria fortunei*

Photo 9



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

Photo 10



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

Photo 11



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

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 17th August 2020

4. Incense Tree *Aquilaria sinensis*

Photo 12



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

Photo 13



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

Photo 14



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

Photographic Records for Monthly Monitoring of Flora Species of Conservation Interest on 17th August 2020

5. Undersized seedling of Incense Tree *Aquilaria sinensis*

Photo 15



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

Photo 16



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

**APPENDIX I
EVENT ACTION PLANS**

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

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

	8. If exceedance stops, cease additional monitoring.			
LIMIT LEVEL				
1.Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; and 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and the ER informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; and 5. Monitor the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; and 4. Amend proposal if appropriate.
2.Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify IEC, the ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC, and ER to discuss 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 4. Review Contractor's remedial actions whenever necessary to assure 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; and 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; and 5. Stop the relevant portion of works as determined by the ER

	<p>the remedial actions to be taken;</p> <p>7. Assess effectiveness of Contractor’s remedial actions and keep IEC, EPD and ER informed of the results; and</p> <p>8. If exceedance stops, cease additional monitoring.</p>	<p>their effectiveness and advise the ER accordingly; and</p> <p>5. Monitor implementation of remedial measures.</p>	<p>5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedances is abated.</p>	<p>until the exceedance is abated.</p>
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Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer’s Representative

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

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level	<p>1. Notify ER, IEC and Contractor;</p> <p>2. Carry out investigation;</p> <p>3. Report the results of investigation to the IEC, ER and Contractor;</p> <p>4. Discuss with the IEC and Contractor on remedial measures required; and</p> <p>5. Increase monitoring frequency to check mitigation effectiveness.</p>	<p>1. Review the monitoring data submitted by the ET;</p> <p>2. Review the proposed remedial measures by the Contractor and advise ER; and</p> <p>3. Advise the ER on the effectiveness of the proposed remedial measures.</p>	<p>1. Confirm receipt of notification of failure in writing;</p> <p>2. Notify Contractor;</p> <p>3. In consolidation with the IEC, agree with the Contractor on the remedial measure to be implemented; and</p> <p>4. Supervise the implementation of remedial measure.</p>	<p>1. Submit noise mitigation proposals to IEC and ER; and</p> <p>2. Implement noise mitigation proposals.</p>

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit Level	<ol style="list-style-type: none"> 1. Inform IEC, ER and Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase the monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measure required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst the ER, ET, and Contractor on the potential remedial actions; and 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify the Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; and 5. If exceedance continues, consider stopping the Contractor to continue working in that portion of work which causes the exceedance until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to the IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; and 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

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

APPENDIX J
SUMMARY OF EXCEEDANCE

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

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

(B) Exceedance Report for Construction Noise

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract		Cumulative No. of Exceedance recorded
		Action Level	Limit Level	Action Level	Limit Level	
Noise	$L_{eq(30 \text{ min.})}$ dB(A)	1	0	0	0	1

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

Appendix K – Implementation Schedule and Recommended Mitigation Measures

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

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<p>vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies.</p> <p>Loading, Unloading or Transfer of Duty Materials</p> <ul style="list-style-type: none"> All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. <p>Debris Handling</p> <ul style="list-style-type: none"> Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. Before debris is dumped into a chute, water should be sprayed onto the debris so that it remains wet when it is dumped. <p>Transport of Dusty Materials</p> <ul style="list-style-type: none"> Vehicles used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. <p>Wheel Washing</p> <ul style="list-style-type: none"> Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the 					<p>*</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p>

Appendix K – Implementation Schedule and Recommended Mitigation Measures

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

Appendix K – Implementation Schedule and Recommended Mitigation Measures

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

Appendix K – Implementation Schedule and Recommended Mitigation Measures

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

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<p>rainstorms are forecast.</p> <ul style="list-style-type: none"> • Final surface levels should be compacted and final surface protections installed to prevent erosion caused by rainstorms. • Open stockpiles of material should be covered on site with waterproof layers such as tarpaulin to reduce the potential for sediment laden runoff entering the drainage system. • The wheels of all vehicles and plant should be cleaned before leaving the works areas to remove sediment, soil and debris from the tracks. The washwater should be treated to remove any suspended sediment. • Surface water from concrete batching areas and the rest of the site should be separated as far as possible. Wastewater from any concrete batching plant (if required) shall be treated to the required standards including pH adjustment and settlement of suspended sediments before discharging to stormwater drains • Manholes (including those constructed as part of the Project) should be adequately covered and temporarily sealed at all times to prevent silt, construction materials or debris from entering the drainage system, and to prevent 					<p>N/A</p> <p>^</p> <p>^</p> <p>N/A</p> <p>^</p>

Appendix K – Implementation Schedule and Recommended Mitigation Measures

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

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		<ul style="list-style-type: none"> The maintenance of vehicles should only be undertaken in areas of the site served by appropriate pollution prevention control facilities. To prevent the spillage of fuels and solvents to nearby stormwater drains, all fuel tanks and storage areas should be locked and sited on sealed areas of the site, within bunded areas with a capacity equal to 110% of the storage capacity of the largest container. The bund should be kept free of surface water at all times and after each rainfall event. 					<p>^</p> <p>^</p>
5.6.1.4	4.2	<p>Sewage from Construction Workforce</p> <p>Portable toilets should be available throughout the construction phase and regularly maintained, collected and disposed by a licensed waste collector to a public sewage treatment works for suitable treatment.</p>	Prevent discharge of sewage into the surrounding environment	Contractor	Within the Project site / During construction phase	construction phase	^
5.6.1.5	4.2	<p>Construction Works in Close Proximity to Inland Watercourses</p> <p>Mitigation measures such as such as temporary diversions of existing drainage culverts/ watercourses before construction commences and during construction should be implemented, in addition to those listed in ProPECC Note PN1/94 <i>Construction Site Drainage and ETWB TC (Works) No. 5/2005 Protection of</i></p>	Minimise/ control construction site discharges to avoid pollution of nearby watercourses	Contractor	Within the Project site / During construction phase	construction phase	

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<p><i>Natural Streams/ivers from Adverse Impacts Arising from Construction Works.</i> Measures include the following:</p> <ul style="list-style-type: none"> • Stockpiling of construction materials and spoil, should be properly covered and located away from any natural stream/river. • Construction works close to the inland waters should be carried out in dry season as far as practicable where the flow in the surface channel or stream is low. • Removal of existing vegetation alongside the riverbanks should be avoided or minimised. When disturbance to vegetation is unavoidable, all disturbed areas should be hydroseeded or planted with suitable vegetation to blend in with the natural environment upon completion of works. 					<p>N/A</p> <p>N/A</p> <p>N/A</p>
Waste Management Implications – Construction Phase							
7.5.1.1	6.2	<p>Good Site Practice</p> <p>Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> • Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site 	Implement good site practices to minimize waste generation	Contractor	Project construction site / Throughout construction stage / Until completion of all construction activities	Construction phase	^

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<ul style="list-style-type: none"> • Training of site personnel in proper waste management and chemical handling procedures • Provision of sufficient waste disposal points and regular collection of waste • Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers • Stockpiles of C&D materials should be kept covered by impervious sheets to avoid windblown dust. • All dusty materials including C&D materials should be sprayed with water immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling at the stockpile areas • Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads • Well planned delivery programme for off-site disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated 					<p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p>
7.5.1.2	6.2	<p>Waste Reduction Measures</p> <p>Good management and control can prevent the generation of a</p>	Implement good management and control to	Contractor	Project construction site /	Construction phase	

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<p>significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> • Sort non-inert C&D materials to recover any recyclable portions • Segregation and storage of different types of waste in different containers or skips or stockpiles to enhance reuse or recycling of materials and their proper disposal • Encourage collection of recyclable waste such as waste paper and aluminum cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force • Proper site practices to minimize the potential for damage or contamination of inert C&D materials • Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste 	minimize waste generation		Throughout construction stage / Until completion of all construction activities		<p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p>
7.5.1.3	6.2	<p>Inert and Non-inert C&D Materials</p> <p>In order to minimise impacts resulting from collection and transportation of inert C&D materials for off-site disposal, the inert C&D materials should be reused on-site as fill material as</p>	Minimise impacts resulting from collection and transportation of inert C&D materials	Contractor	Project construction site / Throughout construction stage	Construction phase	<p style="text-align: center;">^</p>

Appendix K – Implementation Schedule and Recommended Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<p>far as practicable. In addition, inert C&D materials generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation.</p> <p>The surplus inert C&D materials will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong.</p> <p>The C&D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site.</p> <p>In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the DEVB Technical Circular (Works) No. 6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the ETWB Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site</p>			/ Until completion of all construction activities		<p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p>

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

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

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<p>(if any), in order to minimise the potentially adverse effects in the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials:</p> <ul style="list-style-type: none"> • To minimise the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; • Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when working directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; • Stockpiling of contaminated excavated materials on site should be avoided as far as possible; • The use of any contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; • Vehicles containing any excavated materials should be suitably covered to reduce dust emissions and / or release of contaminated wastewater; • Truck bodies and tailgates should be sealed to stop any discharge; • Only licensed waste haulers should be used to collect and 	<p>transportation of contaminated materials</p>		<p>Throughout construction stage / Until completion of all construction activities</p>		<p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>

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		<p>transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping;</p> <ul style="list-style-type: none"> • Speed control for trucks carrying contaminated materials should be exercised; • Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354C) and obtain all necessary permits where required; and • Maintain records of waste generation, disposal quantities and disposal arrangements. 					<p>N/A</p> <p>N/A</p> <p>N/A</p>
Ecological Impact							
9.7.1	8.3	<p>Temporary Protective Fence for Flora Species of Conservation Interest</p> <p>During construction phase, erection and maintenance of a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey is recommended.</p> <p>Monthly monitoring of any other flora species of conservation interest identified in the detailed vegetation survey should be conducted during the construction phase.</p>	<p>To avoid potential impact on flora species of conservation interest from construction activities such as materials storage;</p> <p>To make sure that the flora species of conservation interest are not affected by the construction activities of</p>	Contractor	Project construction site / Throughout construction stage / Until completion of all construction activities	Construction phase	^

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			the project.				
Landscape and Visual Impacts – Construction Phase							
Table 10.11	Table 9.1	CM01: Trees / woodland within the Project Site which are unaffected by the works shall be protected and preserved during the detailed design stage and construction phase. The tree preservation proposals shall be coordinated with the layout and design of the engineering and architectural works at detailed design stage for further retention of individual trees. The preservation of existing tree shall provide instant greening and screening effect for proposed works. Tree protection works will be undertaken in accordance with DEVB TC(W) 7/2015 on “Tree Preservation” and tree risk assessment in accordance with “Guidelines for Tree Risk Assessment and Management Arrangement” by DEVB.	Preserve and protect existing trees	Contractor	Project area / During design stage / construction phase / Establishment Period	Design and construction phase	^
Table 10.11	Table 9.1	CM02: If removal of trees unavoidable due to construction impacts, trees will be transplanted where technically feasible in accordance with “Guidelines on Tree Transplanting” by DEVB and HQ/GN/13 and HQ/GN/13 – Interim Guidelines for Tree Transplanting Works under Highways Department’s Vegetation Maintenance Ambit where applicable.	Preserve and protect existing trees	Contractor	Project area / During design stage / construction phase / Establishment Period	Design and construction phase	^
Table 10.11	Table 9.1	CM03: Construction area control, where possible, to ensure that the landscape and visual impacts arising from the construction	Minimise landscape and visual impacts.	Contractor	Project area / During design	Construction phase	^

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

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- 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

**APPENDIX L
WASTE GENERATION IN THE
REPORTING MONTH**

Monthly Summary Waste Flow Table for 2020

Month	Total Quantity Generated	Actual Quantities of Inert C&D Waste Generated Monthly					Actual Quantities of C&D Waste Generated Monthly				
		Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metal	Paper/Cardboard Packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. General Refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0.00304	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00304
Feb	0.00699	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00699
Mar	0.01294	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.01294
Apr	0.02173	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.02173
May	0.02534	0.00000	0.00000	0.00000	0.01329	0.00000	0.00000	0.00000	0.00000	0.00000	0.01205
Jun	0.10368	0.00000	0.00000	0.00000	0.00687	0.00000	0.00000	0.00000	0.00000	0.00000	0.09681
Sub-Total	0.17372	0.00000	0.00000	0.00000	0.02016	0.00000	0.00000	0.00000	0.00000	0.00000	0.15355
Jul	33.62496	0.00000	0.00000	33.07233	0.04952	0.00000	0.00000	0.00000	0.00000	0.00000	0.50311
Aug	26.59676	0.00000	0.00000	25.46938	0.48478	0.00000	0.00000	0.00000	0.00000	0.00000	0.64260
Sep											
Oct											
Nov											
Dec											
Total	60.39544	0.00000	0.00000	58.54171	0.55447	0.00000	0.00000	0.00000	0.00000	0.00000	1.29926

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)
545.860	0.000	195.040	330.820	17.000	0.000	0.000	0.000	0.000	0.000	3.000

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

[#]The total quantity of C&D materials to be generated from the Contract based on the supplementary information under letter (Ref.: (ND/2018/01)/M45/100/B00005)

**APPENDIX M
COMPLAINT LOG**

Appendix M - Complaint Log

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				NSRs where appropriate. <ul style="list-style-type: none"> • To strengthen site supervision and 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. 	

**APPENDIX N
SUMMARY OF SUCCESSFUL
PROSECUTION**

Appendix N - Summary of Successful Prosecution

Date of Successful Prosecution	Details of the Successful Prosecution	Status	Follow Up
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