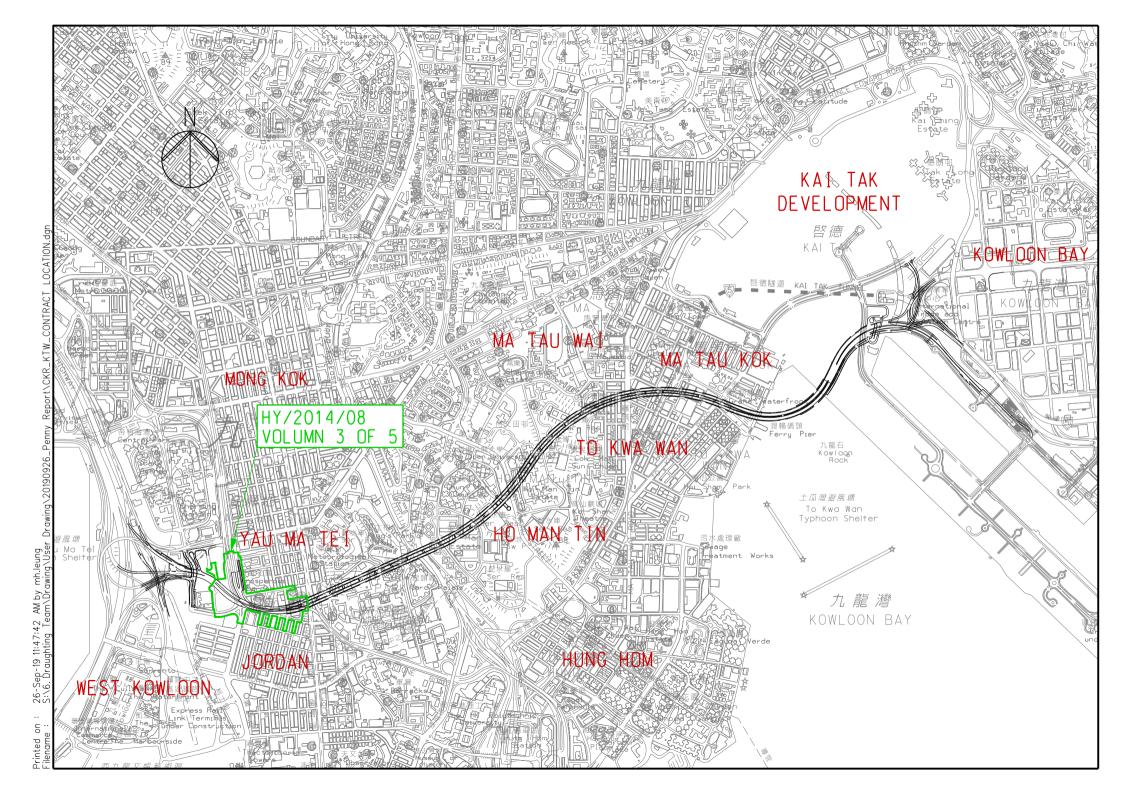
Vol. 3 of 5 FEP-03/457/2013/D Central Kowloon Route Yau Ma Tei East Contract No. HY/2014/08 October 2025







Environmental Permit No. EP-457/2013/D

Central Kowloon Route

Independent Environmental Checker Verification

Reference Document/Plan	
Document/Plan to be Certified/ Verified:	Monthly EM&A Report No.91 (October 2025)
Date of Report:	10 November 2025
Date received by IEC:	11 November 2025

Yau Ma Tei East (HY/2014/08)

Reference EP Condition

Works Contract:

Environmental Permit Condition: 3.4

Submission of Monthly EM&A Report of the Project

3.4 Four hard copies and one electronic copy of monthly EM&A Report shall be submitted to the Director within 2 weeks after the end of each reporting month throughout the entire construction period. The EM&A Reports shall include a summary of all non-compliance. The submissions shall be certified by the ET Leader and verified by the IEC as complying with the requirements as set out in the EM&A Manual before submission to the Director. Additional copies of the submission shall be provided to the Director upon request by the Director.

IEC Verification

I hereby verify that the above referenced document/plan complies with the above referenced condition of EP-457/2013/D.

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Mondy 20.

Ms Mandy To Date: 11 November 2025

Independent Environmental Checker

Our ref: 0436942_IEC Verification Cert_YMTE_Monthly EM&A Rpt No.91.docx





Build King – SK ecoplant Joint Venture

Central Kowloon Route Contract HY/2014/08 Section of Yau Ma Tei East

Monthly EM&A Report No. 91

(Period from 01 to 31 October 2025)

Rev. 0 (10 November 2025)

	Name	Signature
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EXECUTIVE SUMMARY

- A.1 Build King SK ecoplant Joint Venture ("Contractor") commenced the construction works of Highway Department (HyD) Central Kowloon Route Contract No. HY/2014/08 Section of Yau Ma Tei East ("The Project") on 20 April 2018. This is the 91st monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 01 October 2025 to 31 October 2025.
- A.2 A summary of the construction works reported by Main Contractor for the Project during the reporting month is listed below.

Construction Activities undertaken

- Backfilling and UU reinstatement works at Zones A, B, C, D, F & G
- Constructing W/B RGRF Deck at P1R-P7R
- Constructing Zone 1 Noise Enclosure
- Constructing socketed H-piles, pile caps, ground beams, RC columns, Steel Posts, Steel Main Beams, Steel Tie Beams and Acoustic Panels for Noise Enclosure at Zone 3
- Pipe Piles, Barrette, Caps/Footings, Steel Columns, Girder Beams, Steel Posts, Steel Main Beams, Steel Tie Beams, Acoustic Panels and Smoke Van. Panels for Noise Enclosure at Zone 2
- A.3 A summary of regular construction noise and construction dust monitoring activities in this reporting period is listed below:

Regular construction noise monitoring during normal working hours

W-N1A, W-P11, W-N18, W-N25A 6 times

Construction dust (24-hour TSP) monitoring

W-A1 6 times W-A6 6 times

Construction dust (1-hour TSP) monitoring

W-A1, W-A6 18 times

- A.4 Bi-weekly inspection of the implementation of landscape and visual mitigation measures was conducted on 09 and 23 October 2025. Details of the audit findings and implementation status are presented in Section 5.
- A.5 Joint weekly site inspections were conducted by representatives of the Environmental Team (ET), Contractor and Engineer on 02, 09, 16, 23, and 30 October 2025. One joint site inspection with IEC was also undertaken on 09 October 2025. Details of the audit findings and implementation status are presented in Section 5.
- A.6 Details of waste management are presented in Section 3.
- A.7 One Action Level of construction noise was triggered during the reporting month as one documented complaint regarding noise was received. No exceedance of Limit Level of construction noise was recorded in the reporting month. No exceedance of the Action and Limit Level of 24-hour TSP and 1-hour TSP was recorded in the reporting month.

- A.8 A total of one environmental complaint was received in the reporting month. After investigation with the Contractor, precautionary measures had been proposed to the Contractor by ET. The interim reports for the complaints are shown in Appendix Q.
- A.9 No non-compliance was reported in the reporting month.
- A.10 No notification of summon or prosecution was received in this reporting month.
- A.11 A summary of the construction activities provided by Main Contractor in the next reporting month is listed below:

Construction Activities to be undertaken

- Backfilling and reinstatement works at Zones A, B, C, D, F & G
- Bridge Works:
 - i. Installation of MJ at P7L and P1L on East-Middle lane (Stage 3), after TTA-2 (11-Oct-2025)
 - ii. Eastbound Parapet wall construction
 - iii. Removal of temporary deck at P8L
- Continue installation of secondary tie beams, absorptive panels and MIC module for PMMA panels for Noise Enclosure F02 in Zone 3 (night works). Continue piling works at Portion 2 and construct ground beams at Portion 1 along Ching Ping Street for C07 Noise Enclosure.
- Works at Zone 2 Noise Enclosure are as the followings:
 - i. Continue welding works of girder beams (IMG-6 to IMG-9) at West side
 - ii. Installation of posts at East side
 - iii. Erection of temporary supports for main beams and installation of main beams at East Side
- Works at Zone 1 Noise Enclosure Continue installing steel posts, steel main beams, secondary tie beams, smoke vents, absorptive panels and PMMA panels at the West side of Noise Enclosure Zone 1
- Noise Enclosure steelworks fabrication at the yards in Zhuhai, China
- Monitoring of instrumentation for all areas

1. BASIC PROJECT INFORMATION

- 1.1. Central Kowloon Route (CKR) is a 4.7 km long dual 3-lane trunk road in Central Kowloon linking Yau Ma Tei Interchange in West Kowloon with the road network on Kai Tak Development and Kowloon Bay in East Kowloon.
- 1.2. The Central Kowloon Route Design and Construction Environmental Impact Assessment Report (Register No.: AEIAR-171/2013) was approved with conditions by the Environmental Protection Department (EPD) on 11 July 2013. An Environmental Permit (EP 457/2013) was issued on 9 August 2013. Variations of EP (VEP) was applied for and the EP (EP-457/2013/C) was issued by EPD on 16 January 2017. Variations of EP (VEP) was subsequently applied for and the latest EP (EP-457/2013/D) was issued by EPD on 15 June 2021. A Further EP (FEP-03/457/2013/D) was issued by EPD on 5 November 2021.
- 1.3. The construction of the CKR had been divided into different sections. This Contract No. HY/2014/08 Section of Yau Ma Tei East (YMTE) covers part of the construction activities located at Yau Ma Tei under the EP and FEP which includes:
 - · Section of Yau Ma Tei East
 - i. Construction of Cut-and-Cover Tunnel in compliance with all statutory requirements and the requirements specified under the Contract while maintaining the traffic with all necessary provisions
 - ii. Construction and subsequent handover of Yau Ma Tei Access Shaft for facilitating the access and use by the contractor of Central Kowloon Route Central Tunnel contract
 - iii. Demolition of existing buildings including Yau Ma Tei Multi-storey Carpark Building, Yau Ma Tei Specialist Clinic Extension Building and Yau Ma Tei Jade Hawker Bazaars
 - iv. Demolition and re-provisioning of Gascoigne Road Flyover and the underpinning works for the existing Ferry Street Flyover and Yau Ma Tei Police Station New Wing Building
 - v. Construction of civil provisions and coordination with the contractor of Central Kowloon Route Tunnel Electrical & Mechanical contract
 - vi. Design and construction of Noise Barrier Works
 - vii. Prepare temporary traffic arrangement proposals, discuss at Traffic Management Liaison Group meeting and obtain its agreement and approval/endorsement from relevant authorities at suitable times to enable the execution of the Works

The alignment and works area for the Contract No. HY/2014/08 - are shown in Appendix A.

1.4. A summary of the major construction activities undertaken in this reporting period is shown in Table 1.1. The construction programme is presented in Appendix B.

Table 1.1 Summary of the Construction Activities reported by Main Contractor during the Reporting Month

Construction Activities undertaken

- Backfilling and UU reinstatement works at Zones A, B, C, D, F & G
- Constructing W/B RGRF Deck at P1R-P7R
- Constructing Zone 1 Noise Enclosure
- Constructing socketed H-piles, pile caps, ground beams, RC columns, Steel Posts, Steel Main Beams, Steel Tie Beams and Acoustic Panels for Noise Enclosure at Zone 3
- Pipe Piles, Barrette, Caps/Footings, Steel Columns, Girder Beams, Steel Posts, Steel Main Beams, Steel Tie Beams, Acoustic Panels and Smoke Van. Panels for Noise Enclosure at Zone 2
- 1.5. The project organisational chart specifying management structure and contact details are shown in Appendix C.
- 1.6. A summary of the valid permits, licences, and /or notifications on environmental protection for this Project is presented in Table 1.2.

Table 1.2 Summary of the Status of Valid Environmental Licence

Notification, Permit and Documentations

Notification, 1 crimit and Documentations				
Permit/ Licences/	Valid	Period		Remark
Notification /Reference No.	From	То	Status	
Environmental Permit				
EP-457/2013/D	15 Jun 2021	End of Project	Valid	-
Further Environmenta	l Permit			
FEP-03/457/2013/D	5 Nov 2021	End of Project	Valid	
Wastewater Discharge I	License			
WT00043433-2023	14 Aug 2024	31 Mar 2028	Valid	-
WT00045552-2024	21 Nov 2024	30 Nov 2029	Valid	-
Notification of Construc	tion Works unde	er the Air Pollution	on Control (Const	ruction Dust) Regulation
471691	14 Sep 2021	End of Project	Notified	-
Chemical Waste Produc	er Registration			
WPN5213-225-B2526- 01	14 Mar 2018	End of Project	Valid	-
Billing Account for Disp	osal of Construc	tion Waste		
7029997	1 Feb 2018	End of Project	Valid	-
Construction Noise Peri	mit			
GW-RE0307-25	5 Apr 2025	4 Oct 2025	Expired during reporting month	Construction Noise Permit for Zone A & B and Column A
GW-RE0366-25	7 Apr 2025	3 Oct 2025	Expired during reporting month	Construction Noise Permit at Zone B1-B3, C & F and Column C & D

GW-RE0420-25	14 Apr 2025	9 Oct 2025	Expired during reporting month	Construction Noise Permit for Welding at Column E, G & H
GW-RE0541-25	21 May 2025	20 Nov 2025	Valid	Construction Noise Permit at Zone B1-B3, C & F and Column C & D
GW-RE0745-25	28 Jun 2025	27 Dec 2025	Valid	Construction Noise Permit at Zone D & G
GW-RE0940-25	15 Aug 2025	31 Oct 2025	Expired during reporting month	TTA Modification at Yau Cheung Road
GW-RE0903-25	9 Aug 2025	31 Oct 2025	Expired during reporting month	Construction Noise Permit for Erection of Temporary Support for Girder Beam Installation of Noise Enclosure at Ferry Street Southbound
GW-RE0942-25	15 Aug 2025	31 Oct 2025	Expired during reporting month	TTA Implementation for Reprovisioning of Gascoigne Road Flyover
GW-RE1051-25	5 Sep 2025	31 Oct 2025	Expired during reporting month	Construction Noise Permit for Cleaning the Library Exterior Walls at Shanghai Street
GW-RE1102-25	12 Sep 2025	30 Nov 2025	Valid	Night works for Construction of Parapet Wall at Reclamation Street
GW-RE1105-25	12 Sep 2025	30 Nov 2025	Valid	Construction of Parapet Wall at Temple Street
GW-RE1100-25	12 Sep 2025	30 Nov 2025	Valid	Construction Noise Permit for Construction of Parapet Wall at GRF near Shanghai Street
GW-RE1221-25	9 Oct 2025	31 Dec 2025	Valid	Construction Noise Permit for Column Lifting at Column E
GW-RE1219-25	5 Oct 2025	4 Apr 2026	Valid	Construction Noise Permit for Zone A & B and Column A
GW-RE1235-25	13 Oct 2025	9 Apr 2026	Valid	Construction Noise Permit for Welding at Column E, G & H
GW-RE1192-25	1 Oct 2025	31 Dec 2025	Valid	Erection of Enclosure at Zone 1-3 and Stitching Works of GRF
		Marine Dumping	Permit	
Nil	_	-	-	-
	I.	1	L	l .

2. Environmental Status

2.1. Environmental permit (EP) conditions under the EIAO, submission status under the EP and implementation status of mitigation measures had been reviewed and implemented on schedule. The status of required submissions under the EP (EP-457/2013/D) and FEP (FEP-03/457/2013/D) as of the reporting period for the Project are summarised in Table 2.1

Table 2.1 Summary of Status of Required Submission for EP-457/2013/D and FEP-03/457/2013/D for the Project

EP/FEP Condition (EP-457/2013/D) (FEP-03/457/2013/D)	Submission	Submission date
Condition 3.4	Monthly EM&A Report (September 2025)	08 October 2025

2.2. Details of the major construction activities reported by Main Contractor in this reporting period are shown in Table 2.2.

Table 2.2 Summary of the Construction Activities reported by Main Contractor during the Reporting Month

Coı	Construction activities undertaken		Remarks on progress	
•	Backfilling and UU reinstatement works at Zones A, B, C, D, F & G	•	84% completion	
•	Constructing W/B RGRF Deck at P1R-P7R	•	100% completion	
•	Constructing Zone 1 Noise Enclosure	•	42% completion	
•	Constructing socketed H-piles, pile caps, ground beams, RC columns, Steel Posts, Steel Main Beams, Steel Tie Beams and Acoustic Panels for Noise Enclosure at Zone 3	•	90% completion	
•	Pipe Piles, Barrette, Caps/Footings, Steel Columns, Girder Beams, Steel Posts, Steel Main Beams, Steel Tie Beams, Acoustic Panels and Smoke Van. Panels for Noise Enclosure at Zone 2	•	50% completion	

2.3. The drawing showing the project layout and the location of the monitoring station and environmental sensitive receivers are attached in Appendix A and Appendix K. Co-ordinates of the monitoring location are shown in Table 2.3.

Table 2.3 Summary for the location of the monitoring station

Monitoring Location	Location ID	Latitude	Longitude
Yau Ma Tei Catholic Primary School (Hoi Wang Road)*	W-A1/ W-N1A	22.31345	114.16409
Man Cheong Building	W-A6	22.308185	114.166033
Hydan Place	W-N18	22.30858	114.170185
Prosperous Garden Block 1	W-N25A	22.309846	114.168072
The Coronation Tower 1	W-P11	22.309824	114.165616

Remark: *The High Volume Sampler (HVS) at dust impact monitoring location W-A1 had been relocated on 6 Sep 2022 due to installation work of PV panel at Yau Ma Tei Catholic Primary School. The relocation of HVS was approved by ER and agreed with IEC.

3. MONITORING RESULTS

3.1. Monitoring Parameters

Air Quality

- 3.1.1. The impact monitoring had been carried out in accordance with section 5.8 of the approved EM&A Manual to determine the 1-hour and 24-hour total suspended particulates (TSP) levels at the monitoring locations in the reporting month.
- 3.1.2. The sampling frequency of at least once in every 6 days, shall be strictly observed at the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least 3 times in every 6 days should be undertaken when the highest dust impact occurs.
- 3.1.3. General meteorological conditions (wind speed, direction and precipitation) and notes regarding any significant adjacent dust producing sources had also been recorded throughout the impact monitoring period.

Noise

- 3.1.4. Construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). Leq (30min) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays.
- 3.1.5. For all other time periods, Leq (5min) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria.
- 3.1.6. As supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference.
- 3.2. Monitoring Equipment

Air Quality

- 3.2.1. 1-hour TSP levels and 24-hour TSP had been measured with direct reading dust meter and High Volume Samplers respectively. It has been demonstrated its capability in achieving comparable results with high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50).
- 3.2.2. The 1-hour TSP meter was calibrated by the manufacturer prior to purchasing. Zero response of the instrument was checked before and after each monitoring event. Operation of the 1-hour TSP meter followed manufacturer's Operation and Service Manual. The 24-hour TSP meter was calibrated against firmware 80570-8100-V1.0.4, annually. Operation of the 24-hour TSP meter followed manufacturer's Operation and Service Manual. Valid calibration certificates of dust monitoring equipment are attached in Appendix H.
- 3.2.3. A summary of the equipment that was deployed for the 24- hour averaged monitoring is shown in Table 3.1. The TSP monitoring was conducted as per the schedule presented in Appendix G.

3.2.4. The equipment used for 1-hour TSP and 24-hour TSP measurement and calibration are summarised in Table 3.1

Monitoring Parameter	Monitoring Equipment	Serial Number	Date of Calibration
	LD-5R Digital Dust Indicator	467356	15 Aug 2025
	LD-5R Digital Dust Indicator	467357	15 Aug 2025
1-hour TSP	LD-5R Digital Dust Indicator	467358	15 Aug 2025
	LD-5R Digital Dust Indicator	467359	15 Aug 2025
	LD-5R Digital Dust Indicator	882107	15 Aug 2025
	TE-5170X High Volume	1084	02 October 2025 and
	Sampler		18 October 2025
24-hour TSP	TE-5170X High Volume	1050	02 October 2025 and
	Sampler		18 October 2025
	TE-5025A Calibration Kit	3465	02 Dec 2024

Table 3.1 Construction Dust Monitoring Equipment

Noise

- 3.2.5. Sound level meter in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications has been used for carrying out the noise monitoring. The sound level meter has been checked using an acoustic calibrator. The wind speed and other metrological data has been recorded from Hong Kong Observatory- King's Park meteorological station, along with portable wind speed meter stand by as back up when the information are not available from HKO.
- 3.2.6. Acoustic calibrators and sound level meters using for the monitoring is within the valid period and were calibrated per year. Valid calibration certificate of noise monitoring equipment is attached in Appendix I.
- 3.2.7. The details of equipment using for monitoring are listed in Table 3.2, as below:

Monitoring Equipment	Serial Number	Date of Calibration
Nti XL3 Sound Level Meter	A3A-01229-F0	24 Jul 2025
Nti XL3 Sound Level Meter	A3A-01235-F0	13 May 2025
Rion NC-75 Sound Level Calibrator	35124528	13 Feb 2025
Rion NC-75 Sound Level Calibrator	34724244	11 Jul 2025

Table 3.2 Monitoring Equipment Used in Monitoring

3.3. Monitoring Methodology and QA/QC results

Air Quality

3.3.1. The 1-hour TSP monitor, portable dust meters (Sibata Digital Dust Indicator Model LD-5R and PC-3A(E) digital dust indicator) were used for the impact monitoring. The 1-hour TSP meters provides a real time 1-hour TSP measurement based on 90° light scattering. Three 1-hour TSP level were logged per every six days.

- 3.3.2. The 24-hour TSP monitor, High Volume Samplers (Tisch TE-5170X High Volume Air Sampler) were used for the impact monitoring. The 24-hour TSP monitoring consists of the following:
 - ◆ The HVS was set at the monitoring location, with electricity supply connected and secured:
 - ♦ HVS was calibrated before commencing the 1st measurement;
 - ◆ The filter paper was weight and provided by HOKLAS lab (Acumen Laboratory and Testing Limited and ALS Technichem (HK) Pty Ltd) before and after the sampling. Certificate of HOKLAS accredited laboratory can be referred to Appendix J;
 - ◆ The airflow over time during sampling process was recorded by the HVS.
- 3.3.3. HVSs were free-standing with no obstruction. The following criteria were considered in the installation of the HVS:
 - ◆ Appropriate support to secure the samples against gusty wind needed to be provided the monitoring station;
 - ◆ A minimum of 2m separation from walls, parapets and penthouses was required for rooftop samplers;
 - ◆ No furnace or incinerator flues was nearby;
 - Airflow around the sampler was unrestricted; and
 - Permission could be obtained to set up the samplers and gain access to the monitoring station.

3.3.4. Preparation of Filter Papers

- Glass fiber filters were labelled and sufficient filters that were clean and without pinholes were selected;
- ◆ All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25°C and not varied by more than ±3°C; the relative humidity (RH)was 40%; and
- ◆ Acumen Laboratory and Testing Limited and ALS Technichem (HK) Pty Limited, as HOKLAS accredited laboratory, implemented comprehensive quality assurance and quality control programmes on the filters.

3.3.5. Field Monitoring

- ◆ The power supply was checked to ensure that the HVS was working properly;
- ◆ The filter holder and area surrounding the filter were cleaned;
- ◆ The filter holder was removed by loosening the foul bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully;
- ◆ The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
- ◆ The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- The shelter lid was closed and secured with an aluminum strip;
- ◆ The HVS was warmed- up for about 5 minutes to establish run- temperature conditions;

- ◆ A new flow rate record sheet was inserted into the flow recorder;
- ◆ The flow rates of the HVS was checked and adjusted to between 0.64-1.52m³min⁻¹, which was within the range specified in the EM&A Manual (i.e. 0.6-1.7m³min⁻¹);
- ◆ The programmable timer was set for a sampling period of 24 hours, and the starting time, weather condition and filter number were recorded;
- ◆ The initial elapsed time was recorded;
- ◆ At the end of sampling, the sampled filter was removed carefully and folded in half so that only surfaces with collected particulate matter were in contact;
- ◆ The filter paper was placed in a clean plastic envelope and sealed; all monitoring information was recorded on a standard data sheet and
- ◆ The filters were sent to (Acumen Laboratory and Testing Ltd and ALS Technichem (HK) Pty Ltd) for analysis.

3.3.6. Maintenance and Calibration

- ◆ The HVS and their accessories were maintained in a good working condition. For example, motor brushes were replaced routinely and electrical wiring was checked to ensure a continuous power supply; and
- ♦ The flow rate of each HVS with mass flow controller was calibrated using an orifice calibrator, Initial calibrations of the dust monitoring equipment were conducted upon installation and prior to commissioning. Five- point calibration was carried out for HVS using TE-5025 Calibration Kit. HVS is calibrated bimonthly. The calibration records for the HVS is given in Appendix H.

3.3.7. Wind Data Monitoring

◆ The wind speed has been recorded from Hong Kong Observatory- King's Park meteorological station, along with portable wind speed meter stand by as back up when the information are not available from HKO.

Noise

- 3.3.8. All noise measurements by the meter were set to FAST response and on the A-weighted equivalent continuous sound pressure level (L_{eq}) in decibels dB(A). L_{Aeq(30min)} was used as the monitoring metric for the time period between 0700 –1900 hours on normal weekdays. The measured noise levels were logged every 5 minutes throughout the monitoring period.
- 3.3.9. Prior to the noise measurement, the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Checking was conducted before and after the monitoring. The calibration level before and after the noise measurement is agreed to within 1.0 dB(A).
- 3.3.10. Noise measurements should not be made in presence of fog, rain, wind with a steady speed exceeding 5 ms⁻¹ or wind with gusts exceeding 10 ms⁻¹. The wind speed was checked with a portable wind speed meter capable of measuring with speeds in ms⁻¹.

3.4. Monitoring Locations

Air Quality

3.4.1. During the site visit, both of the original proposed dust monitoring locations were rejected due to the condition at The Coronation was not favourable for monitoring and the access was declined by the management office of Hong Kong Community College (HKCC) of PolyU. Two alternative air monitoring stations Yau Ma Tei Catholic Primary School (Hoi Wang Road) and Man Cheong Building had been proposed by ET and approved by IEC. 2 designated air monitoring locations were identified and agreed with IEC and EPD. Details of air monitoring stations are described in Table 3.3. The location plan of air quality monitoring stations is shown in Appendix K.

Table 3.3 Location of the Dust Monitoring Stations

Air Quality Monitoring Station	Dust Monitoring Station
W-A1	Yau Ma Tei Catholic Primary School (Hoi Wang Road)
W-A6	Man Cheong Building

Noise

3.4.2. During the site visit, one of the original proposed noise monitoring locations Tak Cheong Building was rejected by the president of the owner's corporation. Alternative noise monitoring station Hydan place had been proposed by ET and approved by IEC. 4 noise sensitive receivers designated noise monitoring locations were identified and agreed with IEC and EPD. The designated monitoring stations are identified and access was granted by the premises. The details of noise monitoring stations are described in Table 3.4 and the location plan of noise monitoring station is shown in Appendix K.

Table 3.4 Noise Monitoring Stations

Noise Monitoring Station	Identified Noise Monitoring Station	Type of Measurement
W-N1A	Yau Ma Tei Catholic Primary School (Hoi Wang Road)	Façade
W-N18	Hydan Place	Façade
W-N25A	Prosperous Garden Block 1	Façade
W-P11	The Coronation Tower 1	Façade

- 3.5. Monitoring date, time, frequency and duration
- 3.5.1. A summary of impact monitoring duration, sampling parameter and frequency is presented in Table 3.5.

measurement

Impact Duration **Sampling Parameter Frequency** Monitoring 1-hour continuous 1-hour TSP Dust 3 times per six days measurement 24-hour continuous Dust 24-hour TSP Once per six days sampling 30-minute continuous $L_{eq~30~min}$, Noise Once per week (0700 - 1900)

Table 3.5 Summary of Impact Monitoring Programme

3.6. Result Summary

Air Quality

3.6.1. According to our field observations, the major dust source identified at the designated air quality monitoring stations in the reporting month are summarised in Table 3.6.

L₁₀ and L₉₀ as reference.

Table 3.6 Observation at Dust Monitoring Stations

Monitoring Station	Major Dust Source
W-A1	Nearby traffic
W-A6	Nearby traffic

- 3.6.2. Air quality impact monitoring for the reporting month was carried out on 06, 08, 14, 20, 25 and 31 October 2025.
- 3.6.3. The results for 1-hour TSP and 24-hour TSP are summarized in Table 3.7 and Table 3.8. The measurement data and details of influencing factors such as weather conditions and site observation are presented in Appendix L.

Table 3.7 Summary of 1-hour TSP Monitoring Results

Monitoring Location	Range(µg/m³)	Action Level(μg/m3)	Limit Level(µg/m3)
W-A1	15 - 50	319	500
W-A6	23 - 66	306	500

Table 3.8 Summary of 24-hour TSP Monitoring Results

Monitoring Location	Range(µg/m³)	Action Level(µg/m3)	Limit Level(µg/m3)
W-A1	20 - 83	167	260
W-A6	29 – 69	166	260

Noise

According to our field observations, the major noise source identified at the designated 3.6.4. noise monitoring station in the reporting month are summarised in Table 3.9:

Monitoring Station Major Noise Source Nearby traffic W-N1A W-N18 Nearby traffic Nearby traffic W-N25A Nearby traffic W-P11

Table 3.9 Observation at Noise Monitoring Stations

- 3.6.5. The construction noise impact monitoring for the reporting month was carried out on 06, 08, 14, 20, 25 and 31 October 2025.
- 3.6.6. The result for noise monitoring is summarized in Table 3.10. The measurement data are shown in Appendix M.

Table 3.10 Summary of Noise Monitoring Results

Time	Monitoring	Parameter		Range, dB(A))		
Period	location		Leq	L_{10}	L ₉₀	Action Level	Limit Level#
	W-N1A*		56.6 – 60.8	59.6 – 63.5	52.9 – 59.1		70dB(A) or 65 dB(A) during examination
Normal working	working	Leq	66.2 – 69.5	68.3 – 71.4	64.3 – 67.4	When one documented complaint is received	
hour from 0700-190			68.3 – 73.4	72.9 – 75.9	65.2 – 71.1		75dB(A)#
	W-P11		60.6 – 66.0	64.2 – 68.1	56.5 – 65.0		

- 1. # If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit by the Noise Control Authority have to be followed.
- 2. * Examination was not scheduled at Yau Ma Tei Catholic Primary School during the reporting month.

Waste management

3.6.7. The waste generated from this Project includes inert C&D materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in Table 3.11. Details of cumulative waste management data are presented as a waste flow table in Appendix N.

Table 3.11 Quantities of waste generated from the Project

	Quantity					
	_	Non-inert C&D Materials				
			Others, e.g.	Recy	ycled material	s
Reporting period	Inert C&D Materials (in 'tonnes)	Chemical Waste (in'000 Kg)	General Refuse	Paper/card board (in '000 Kg)		Metals (in '000 Kg)
October 2025	5043.50	0.00	102.50	0.20	0.00	61.40

4. SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

4.1. The Environmental Complaint Handling Procedure is shown in below Table 4.1:

Table 4.1 Environmental Complaint Handling Procedure

		1 0			
Complaint Received via Project Hotline		Complaint Received via	1823 or from other		
		government departments			
Contractor notify ER, ET	Tand IEC	ER notify Contractor, ET	and IEC		
Contractor log complain	*	o the complaint database. Cogation of complaint	ontractor, ER and ET to		
If complaint is considere	d not valid	If complaint is found valid	d		
ET or ER to reply the con	mplainant if necessary	Contractor to identify a measures in consultation ER.	-		
		The ER, ET and IEC to a of the Contractor's reme updated situation; ET to monitoring and audit to necessary, and oversee that to the complaint do not further inspection as necessary.	edial measures and the o undertake additional verify the situation if at circumstances leading a recur. ER to conduct		
If the complaint is referred by the EPD, the Contractor to prepare interim report on the status of the					
complaint investigation and follow-up actions stipulated above, including the details of the remedial					
measures and additional monitoring identified or already taken, for submission to EPD within the					
	time frame assigned by the EPD				
	11 64 111	ults of the investigation sub	, , , , 1		
I The HT to record the deta	alle at the camplaint reci	uite at the invectigation cub	compant actions taken to		

The ET to record the details of the complaint, results of the investigation, subsequent actions taken to address the complaint and updated situation including the effectiveness of the remedial measures, supported by regular and additional monitoring results in the monthly EM&A reports

- 4.2. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan in Appendix D and Appendix E shall be carried out.
- 4.3. One Action Level of construction noise was triggered during the reporting month as one documented complaint regarding noise was received. No exceedance of Limit Level of construction noise was recorded in the reporting month. No exceedance of the Action and Limit Level of 24-hour TSP and 1-hour TSP was recorded in the reporting month.
- 4.4. A total of one environmental complaint was received in the reporting month. After investigation with Contractor, precautionary measures had been proposed to the Contractor by ET. The interim reports for the complaints are shown in Appendix Q.
- 4.5. No non-compliance was reported in the reporting month.
- 4.6. No notification of summon and prosecution was received in the reporting period.
- 4.7. Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix O.

5. EM&A SITE INSPECTION

- 5.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, five (5) site inspections were carried out on 02, 09, 16, 23, and 30 October 2025, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 09 and 23 October 2025.
- 5.2. One joint site inspection with IEC also undertaken on 09 October 2025. Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in Table 5.1.

Environmental Observations Date **Follow-up Status** 1. At Gascoigne Road Flyover and Zone 1. At Gascoigne Road Flyover and Zone B3, drip tray should be provided to B3, the chemical containers were 02 October 2025 chemical container. If they are removed. emptied, they should be removed. 1. At Ching Ping Street, noise barrier 1. At Ching Ping Street, noise barriers should be erected for the PME on site. were erected for the PME on site. 2. At Zone B2, drip tray or impervious 09 October 2025 2. At Zone B2, the breaker and oil stain sheet should be provided for the was removed properly by subbreaker and the oil stain should be contractor. removed properly. 1. At Zone B2, drip tray should be 1. At Zone B2, chemical was removed provided to chemical container. If it is properly by sub-contractor. 16 October 2025 emptied, it should be removed. 2. At Zone F, the NRMM label on the 2. At Zone F, faded NRMM label on excavator had been replaced. excavator should be replaced. 1. The bagged cement inside Former Yau 1. At Old Yau Ma Tei Police Station, the Ma Tei Police Station were covered stock of more than 20 bags of cement should be covered by tarpaulin sheets. with impervious sheets. 23 October 2025 2. At Ferry Street Flyover, chemicals on 2. Chemicals at Ferry Street Flyover were site should be placed on drip tray. removed from site properly. 1. The public road on Canton Road was 1. On Canton Road, regular cleaning 30 October 2025 should be provided for public road. cleaned up.

Table 5.1 Site Observations

- 5.3. The Contractor had rectified all observation identified during environmental site inspection in the reporting period.
- 5.4. According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents are implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in Appendix F.

6. FUTURE KEY ISSUES

6.1. The construction activities provided by Main Contractor in the next reporting month are:

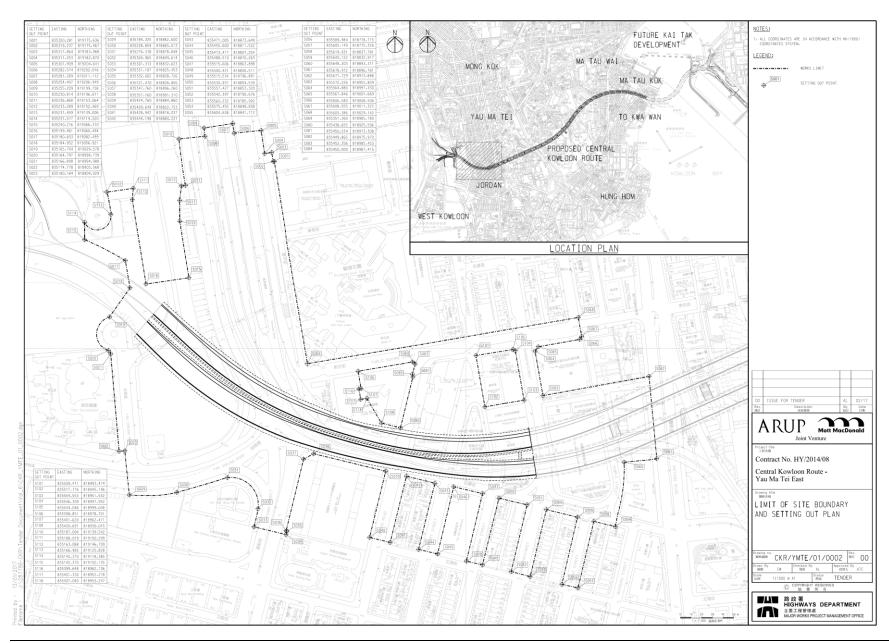
Construction Activities to be undertaken

- Backfilling and reinstatement works at Zones A, B, C, D, F & G
- Bridge Works:
 - i. Installation of MJ at P7L and P1L on East-Middle lane (Stage 3), after TTA-2 (11-Oct-2025)
 - ii. Eastbound Parapet wall construction
 - iii. Removal of temporary deck at P8L
- Continue installation of secondary tie beams, absorptive panels and MIC module for PMMA panels for Noise Enclosure F02 in Zone 3 (night works). Continue piling works at Portion 2 and construct ground beams at Portion 1 along Ching Ping Street for C07 Noise Enclosure.
- Works at Zone 2 Noise Enclosure are as the followings:
 - i. Continue welding works of girder beams (IMG-6 to IMG-9) at West side
 - ii. Installation of posts at East side
 - iii. Erection of temporary supports for main beams and installation of main beams at East Side
- Works at Zone 1 Noise Enclosure Continue install steel posts, steel main beams, secondary tie beams, smoke vents, absorptive panels and PMMA panels at the West side of Noise Enclosure Zone 1.
- Noise Enclosure steelworks fabrication at the yards in Zhuhai, China
- Monitoring of instrumentation for all areas
- 6.2. Potential environmental impacts arising from the above construction activities are mainly associated with dust, construction noise and waste management.
- 6.3. The tentative schedule of regular construction noise, 1-hour TSP and 24-hour TSP monitoring in the next reporting period is presented in Appendix P.
- 6.4. The construction programme for the Project for the next reporting month is presented in Appendix B.

7. CONCLUSION AND RECOMMENDATIONS

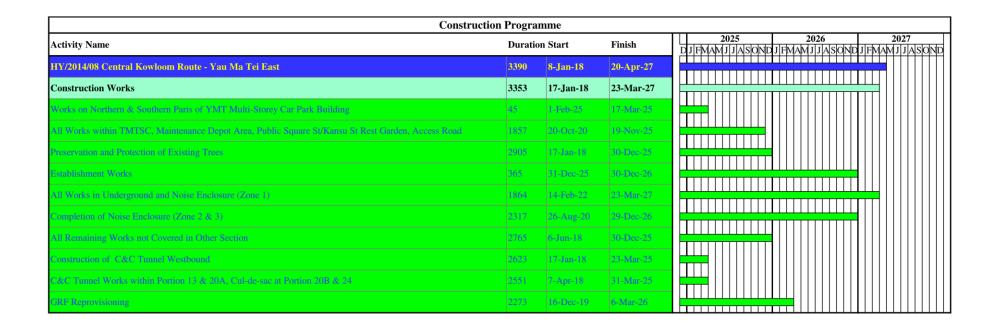
- 7.1. This 91st monthly EM&A Report presents the EM&A works undertaken during the period from 01 October 2025 to 31 October 2025 in accordance with the EM&A Manual and the requirement under EP- 457/2013/D and FEP-03/457/2013/D.
- 7.2. One Action Level of construction noise was triggered during the reporting month as one documented complaint regarding noise was received. No exceedance of Limit Level of construction noise was recorded in the reporting month. No exceedance of the Action and Limit Level of 24-hour TSP and 1-hour TSP was recorded in the reporting month.
- 7.3. A total of one environmental complaint was received in the reporting month. After investigation with Contractor, precautionary measures had been proposed to the Contractor by ET. The interim reports for the complaints are shown in Appendix Q.
- 7.4. No non-compliance was reported in the reporting month.
- 7.5. No notification of summons or prosecution was received in the reporting month.
- 7.6. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

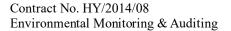
Contract No. HY/2014/08 Environmental Monitoring & Auditing
Appendix A
Alignment and Works Area For the Contract No.
HY/2014/08



Contract No. HY/2014/08
Environmental Monitoring & Auditing

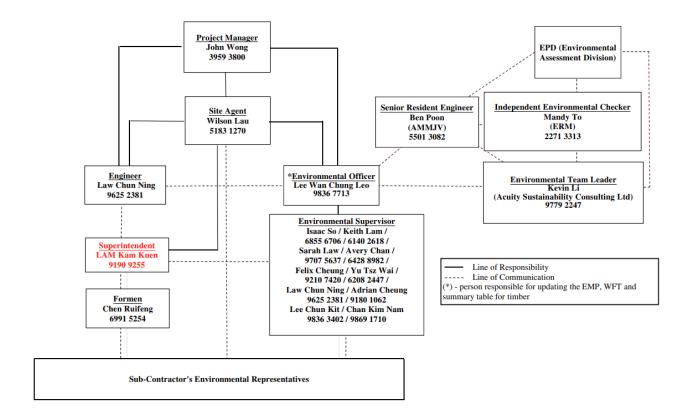
Appendix B
Construction Programme

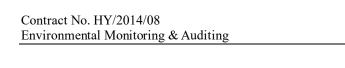




Appendix C Project Organization Chart

Project O-Chart





Appendix D

Dust Event-Action Plan (EAP)

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

EXTENSE	ACTION					
EVENT	ET	IEC	ER	CONTRACTOR		
	 EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. 	3. Ensure remedial measures properly implemented.	within 3 working days of notification; Implement the agreed proposals; 4. Amend proposal if appropriate.		
2.Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. 		

Note:

ET – Environmental Team

ER – Engineer's Representative

IEC – Independent Environmental Checker



Appendix E Noise Event-Action Plan (EAP)

EVENT		ACTIO)N	
	ET	IEC	ER	CONTRACTOR
Action Level	 Identify source, investigate the causes of exceedance and propose remedial measures; Notify IEC and Contractor; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness. 	 Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented 	 Submit noise mitigation proposals to IEC; Implement noise mitigation proposals.
Limit Level	 Identify source; Inform IEC, ER, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.

EVENT	ACTION							
	ET	IEC	ER	CONTRACTOR				
	and keep IEC, EPD and ER informed of the results;		abated.					
	8. If exceedance stops, cease additional monitoring.							

Note:

ET – Environmental Team

IEC – Independent Environmental Checker

ER – Engineer's Representative

Appendix F
Environmental Mitigation Implementation
Schedule (EMIS)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
			Constru	ction Dust Impact				
S4.3.10	D1	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	APCO To control the dust impact To meet HKAQO and TM-EIA criteria	Implemented
\$4.3.10	D2	• Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.3 L/m² to achieve the dust removal efficiency.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	APCO To control the dust impact To meet HKAQO and TM-EIA criteria	Implemented
S4.3.10	D3	 Proper watering at exposed spoil should be undertaken throughout the construction phase; Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; A stockpile of dusty material should not be 	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	APCO To control the dust impact To meet HKAQO and TM-EIA criteria	Implemented, deficiency rectified after observation

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		extended beyond the pedestrian barriers, fencing or traffic cones; The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle. Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided and properly maintained as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical						

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S4.3.10	D6	 continuously; Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; Any skip hoist for material transport should be totally enclosed by impervious sheeting; Every stock of more than 20 bags of cement or dry-pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies. Implement regular dust monitoring under EM&A programme during the construction stage. 	Monitoring of dust impact	Contractor	Selected rep. dust monitoring	Construction stage	• TM-EIA	• Implemented
			Construc	 tion Noise (Airborn	station e)			

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EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/or standards to be achieved	Implementation Status
\$5.4.1	N1	 Implement the following good site practices: Only well-maintained plant should be operated onsite and plant should be serviced regularly during the construction programme; Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; Mobile plant should be sited as far away from NSRs as possible and practicable; Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities. 	Control construction airborne noise	Contractor	All construction sites	Construction stage	• Annex 5, TM- EIAO	• Implemented
\$5.4.1	N2	Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening	Contractor	All construction sites	Construction stage	• Annex 5, TM- EIAO	Implemented
\$5.4.1	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure,	Sreen the noisy plant items to be used at all construction	Contractor	All construction sites where practicable	Construction stage	Annex 5, TM- EIAO	Implemented, deficiency rectified after observation

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		screen the noisy plants including air compressors, generators and handheld breakers, etc.	sites					
S5.4.1	N4	Use 'Quiet plant'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	Annex 5, TM- EIAO	Implemented
S5.4.1	N5	Loading/ unloading activities should be carried out inside the full enclosure of mucking out points.	Reduce the noise levels of loading/ unloading activities	Contractor	Mucking out locations	Construction stage	• Annex 5, TM- EIAO	• Implemented
S5.4.1	N6	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM- EIAO	• Implemented
S5.4.1	N7	Implement a noise monitoring programme under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor ity (Construction Pl	Selected rep. noise monitoring station	Construction stage	• TM-EIAO	Implemented

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EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S6.9.1.1		In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN1/94), construction phase mitigation measures shall include the following: Construction Runoff At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction; The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/ sediment trap. The sediment/ silt traps should be incorporated in the permanent drainage channels to enhance deposition rates; The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/ sand traps should be 5 minutes under	To minimize water quality impact from the construction site runoff and general construction activities	Contractor	All construction sites where practicable	Construction stage	Water Pollution Control Ordinance ProPECC PN 1/94 TM-EIAO TM-DSS	• Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		maximum flow conditions. Sizes may vary depending upon the flow rate, but for a flow rate of 0.1 m3/s a sedimentation basin of 30 m3 would be required and for a flow rate of 0.5 m3/s the basin would be 150 m3. The detailed design of the sand/silt traps shall be undertaken by the contractor prior to the commencement of construction; • All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. Exposed slope surfaces should be covered by tarpaulin or other means; • The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all traffic areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows; • All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas; • Measures should be taken to minimize the ingress of site drainage into excavations. If the excavation						

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system; Manholes should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers; Precautions be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes; All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and site wheel washing facilities should be provided at every construction						

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel wash bay to the public road should be paved with sufficient backfall toward the wheel wash bay to prevent vehicle tracking of soil and silty water to public roads and drains; Oil interceptors should be provided in the drainage system downstream of any oil/ fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain; Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts; All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby; Adopt best management practices; All earth works should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to January) as far as practicable.						

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S6.9.1.2	W2	 Cut-&-cover tunneling work should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to January) as far as practicable. Uncontaminated discharge should pass through sedimentation tanks prior to off-site discharge; The wastewater with a high concentration of SS should be treated (e.g. by sedimentation tanks with sufficient retention time) before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater; Direct discharge of the bentonite slurry (as a result of D-wall) is not allowed. It should be reconditioned and reused wherever practicable. Temporary storage locations (typically a properly closed warehouse) should be provided on site for any unused bentonite that needs to be transported away after all the related construction activities area completed. The requirements in ProPECC PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. 	To minimize construction water quality impact from tunneling works	Contractor	All tunneling portion	Construction stage	Water Pollution Control Ordinance ProPECC PN 1/94 TM-DSS TM-EIAO	• Implemented
S6.9.1.3	W3	Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	Water Pollution Control Ordinance TM-DSS	Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		responsible for appropriate disposal and maintenance.						
\$6.9.1.5	W4	 No direct discharge of groundwater from contaminated areas should be adopted. A discharge license under the WPCO through the Regional Office of EPD for groundwater discharge should be applied. Prior to the excavation works within these potentially contaminated areas, the groundwater quality should be reviewed during the process of discharge license application. The compliance to the Technical Memorandum on Standards for Effluents Discharged into Drainage on Sewerage Systems, Inland and Coastal Waters (TM-DSS) and the existence of prohibited substance should be confirmed. If the review results indicated that the groundwater to be generated from the excavation works would be contaminated, the contaminated groundwater should be either properly treated in compliance with the requirements of the TM-DSS or properly recharged into the ground. If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an 	To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found	Construction stage	Water Pollution Control Ordinance TM-DSS TM-EIAO	• Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		acceptable standard and remove any prohibited substances (e.g. TPH) to undetectable range. All treated effluent from wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be discharged into the foul sewers. • If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS. The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor.						
\$6.9.1.6	W6	Accidental Spillage In order to prevent accidental spillage of chemicals, the following is recommended:	To minimize water quality impact from accidental	Contractor	All construction site where practicable	Construction stage	Water Pollution Control Ordinance	Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 All the tanks, containers, storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and stormwater drains; The Contractor should register as a chemical waste producer if chemical wastes would be generated. Storage of chemical waste arising from the construction activities should be stored with suitable labels and warnings. Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation. 	spillage				 ProPECC PN 1/94 TM-EIAO TM-DSS 	
			Waste Manage	ement (Construction	Waste)			
\$7.4.1	WM1	On-site sorting of C&D material Geological assessment should be carried out by competent persons on site during excavation to identify materials which are not suitable to use as aggregate in structural concrete (e.g. volcanic rock, Aplite dyke rock, etc.). Volcanic rock and Aplite dyke rock should be separated at the source sites as far as practicable and stored at designated stockpile area preventing them from delivering to crushing facilities. The crushing plant operator should also be reminded to set up measures to prevent unsuitable rock from ending up at concrete	Separation of unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use	Contractor	All construction sites	Construction stage	• DEVB (W) No. 6/2010	• Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		batching plants and be turned into concrete for structural use. Details regarding control measures at source site and crushing facilities should be submitted by the Contractor for the Engineer to review and agree. In addition, site records should also be kept for the types of rock materials excavated and the traceability of delivery will be ensured with the implementation of Trip Ticket System and enforced by site supervisory staff as stipulated under DEVB TC(W) No. 6/2010 for tracking of the correct delivery to the rock crushing facilities for processing into aggregates. Alternative disposal option for the reuse of volcanic rock and Aplite Dyke rock, etc. should be explored.						
\$7.5.1	WM2	 Construction and Demolition Material Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible; Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and 	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	Land (Miscellaneo us Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005	• Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction.						
S7.5.1	WM3	 Standard formwork or pre-fabrication should be used as far as practicable in order to minimize the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage; The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage. 	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	Land (Miscellaneo us Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005	• Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
\$7.5.1	WM5	 All construction plant and equipment shall be designed and maintained to minimize the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location; All vessels shall be sized such that adequate draft is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; Before moving the vessels which are used for transporting dredged material, excess material shall be cleaned from the decks and exposed fittings of vessels and the excess materials shall never be dumped into the sea except at the approved locations; Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action. The Contractors shall monitor all vessels transporting material to ensure that no dumping outside the approved location takes place. The Contractor shall keep and produce logs and other records to demonstrate compliance and that journeys are consistent with designated locations and copies of such records shall be submitted to the engineers; The Contractors shall comply with the conditions in the dumping license. 	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	• Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 All bottom dumping vessels (Hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material; The material shall be placed into the disposal pit by bottom dumping; Contaminated marine mud shall be transported by spit barge of not less than 750m3 capacity and capable of rapid opening and discharge at the disposal site; Discharge shall be undertaken rapidly and the hoppers shall be closed immediately. Material adhering to the sides of the hopper shall not be washed out of the hopper and the hopper shall remain closed until the barge returns to the disposal site. For Type 3 special disposal treatment, sealing of contaminant with geosynthetic containment before dropping designated mud pit would be a possible arrangement. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping at the disposal site, thereby fulfilling the requirements for fully confined mud disposal. 						
S7.5.1	WM6	Chemical Waste Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in	Control the chemical waste and ensure proper storage,	Contractor	All construction sites	Construction stage	• Waste Disposal (Chemical Waste)	Implemented, deficiency rectified after observation

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes; Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 L unless the specification has been approved by EPD, and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation; The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste, enclosed on at least 3 sides, have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest, have adequate ventilation, covered to prevent rainfall entering, and arranged so that incompatible materials are adequately separated; Disposal of chemical waste should be via a licensed waste collector, be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers, or be to a reuser of the waste, under approval from EPD.	handling and disposal				(General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
\$7.5.1	WM7	 General Refuse General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes; A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. Aluminum cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible; Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. 	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	Waste Disposal Ordinance	• Implemented
	I		Land Contamin	ation				
S8.9 & Appendix 8.4	LC2	Prior to commencement of the excavation works at the contamination zone, the zone should be clearly marked out on site and the surface levels recorded. Excavation of contaminated material should be undertaken using dedicated earth-moving plant. The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination	The contaminated soil will be excavated for on-site reuse	Contractor	РВН4	Prior to commencement of construction works within the contaminated area	Practice Guide (PG) for Investigation and Remediation of Contaminate d Land	• Implemented

EIA Ref.	EM&A Log Ref.	Reco	mmended Mitiga	ition Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S8.9 &	LC3	during stockpiling. The Contractor should pay attention to the selection of suitable groundwater lowering schemes and discharge points if the groundwater table is higher than the contaminated soils during excavation. The Contractor should also obtain a valid Water Pollution Control Ordinance (WPCO) discharge licence from EPD where applicable. Following completion of the excavation to the						 Guidance Notes for Contaminate d Land Assessment and Remediation Guidance Manual for 	• Implemented	
Appendix 8.4	Les	specified depth, at least one sample from the base of the excavation and four samples evenly distributed along the boundary of the excavation shall be taken for a closure assessment testing. The acceptance criterion is shown below:							Use of Risk- Based Remediation Goals (RBRGs) for Contaminate	- Implemented
	Locations Testing Acceptance Criteria PBH4 PCBs RBRGs (Public Park) • If the results of analysis below the RBRGs (Public Park), no further excavation will be required. If the analysis indicates presence of contamination (i.e. noncompliance of the acceptance criteria), further excavation shall be carried out in 0.5m increment vertically and/or horizontally depending on the location(s) of the sample(s) which has exceeded the acceptance criteria. Further sampling shall also be conducted for compliance testing. The process of						d Land Management			

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		excavation, sampling and compliance testing should continue until all contaminated materials are removed and should be supervised by a Land Contamination Specialist.						
Appendix 8.4	LC4	A Remediation Report (RR) to demonstrate adequate clean-up shall be prepared and submitted to EPD for endorsement prior to the commencement of any construction/development works within the sites. No construction/development works shall be carried out prior to the endorsement of the RR by EPD.						Implemented
				Hazard to Life				
\$9.18	H1	Blasting activities regarding transport and use of explosives should be supervised and audited by competent site staff to ensure full compliance with the blasting permit conditions.	To ensure that the risks from the proposed explosives handling and transport would be acceptable	Contractor	Works areas at which explosives would be used	Construction stage	Dangerous Goods Ordinance	• N/A
S9.6, para.4	H2	Detonators shall not be transported in the same vehicle with other Category 1 Dangerous Goods.	To reduce the risk of explosion during the transport of cartridged emulsion	Contractor	-	Construction stage	Dangerous Goods Ordinance	• N/A
S9.6, para.8	Н3	The explosives delivery trucks should be approved by Mines Division and should meet the regulatory requirements for transport of explosives.	To comply with the requirements for approval of an explosives	Contractor	-	Construction stage	Dangerous Goods Ordinance	• N/A

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			delivery vehicle					
S9.10, para.7 and S9.18	H4	Blast cover should be provided for shaft at HMT, and kept closed during blasting. Provision of blast doors or heavy duty blast curtains should be implemented at the shaft to prevent flyrock and control the air overpressure.	To ensure safe use of explosives	Contractor	Shaft	Construction stage	-	• N/A
S9.16	H5	Only the required quantity of explosives for a particular blast should be transported to avoid the return.	To reduce risks during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
S9.18	H7	The approved truck dedicated for transport of explosives should comply with the "Guidance Note on Requirements for Approval of an Explosives Delivery Vehicle" issued by CEDD Mines Division. The truck should be periodically inspected and properly maintained in good operation conditions. The fuel carried in the fuel tank should be minimized to reduce the duration of fire. Adequate fire fighting equipment shall be provided, inspected and replaced periodically (e.g. fire extinguishers).	To reduce the risk during explosives transport	Contractor	Works areas of which explosives would be used	Construction stage	Dangerous Goods Ordinance	• N/A
\$9.18	Н8	The driver and his assistant should be physically healthy, experienced and have good safe driving records. The driver should hold a proper driving licence for the approved transport truck. Dedicated training programme and regular road safety briefing	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A

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		sessions/ workshops should be provided to enhance their safe driving attitude and practice. Smoking should be strictly prohibited.						
S9.18	Н9	Emergency response plans in case of road accident should be prepared and implemented. The driver and his assistant should be familiar with the emergency procedures including evacuation, and proper communication/ fire-fighting equipment should be provided to the driver and his assistant.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
S9.18	H10	Close liaison and communication among Mines Division, Contractors for transport of explosives, and working staff of the blasting should be established. In case of any change of work schedule leading to cancellation or variation of explosives required, relevant parties should be informed in time to avoid unused explosives at the work sites.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
\$9.18	H11	Close liaison and communication with Fire Services Department should be established to reduce the accidental detonation escalated from a fire. The contractors for transport of explosives should use the preferred transport routes as far as practicable.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
\$9.18	H12	Contingency plan should be prepared for transport of explosives under severe weather conditions such as rainstorms and thunderstorms.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A

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S9.18	H13	For explosive transport, all packages of explosives on the truck should be properly stored in the truck compartment as required. Packaging of the explosives should remain intact (i.e. damage free) until they are transferred to the blasting site.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
S9.18	H14	Availability of a parking space should be ensured before commencement of transport of explosives. Location for loading and unloading of explosives should be as close as possible to the shaft. No hot work should be performed in the vicinity during the time of loading and unloading.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
S9.18	H22	It is recommended to explore to minimize the use of the cartridged emulsion explosives and maximize the use of bulk emulsion explosive as far as practicable.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
S9.18	H24	It is recommended to explore to use smaller explosive charges such as 'cast boosters' or 'mini-cast booster' instead of cartridged emulsion as primers for bulk emulsion. This option reduces the quantity of explosives required for transportation for the sections where bulk emulsion will be used.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
			Lan	dscape & Visual				
S10.10.1 Table 10.11	LV3	Good Site Management Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented

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		 Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance. 						
S10.10.1 Table 10.11	LV4	 Screen Hoarding Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context. 	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV5	Lighting Control during Construction All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC. The Contractor shall consider other security measures, which shall minimize the visual impacts.	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV6	Erosion Control The potential for soil erosion shall be reduced by minimizing the extent of vegetation disturbance on site and by providing a protective cover over newly exposed soil.	Minimize landscape impact	Contractor	Within Project site	Construction stage	-	• N/A
S10.10.1 Table 10.11	LV7	Tree Protection & Preservation • Carefully protected during construction. Tree protection measures will be detailed at the Tree Removal Application stage and plans submitted to the relevant Government Department for approval in due course in accordance with ETWB TC no. 3/2006.	Minimize landscape and visual impact	Contractor	Within Project site	Construction stage	• 'Guidelines for Tree Risk Management and Assessment Arrangement on an Area Basis and on a Tree Basis', Greening,	• Implemented

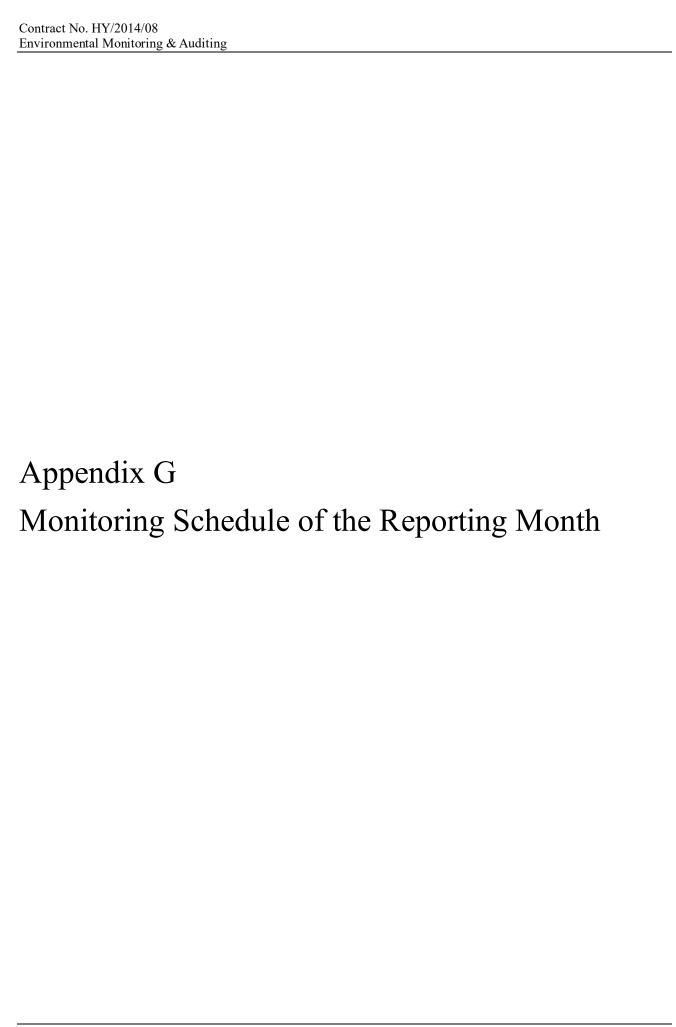
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S10.10.1 Table 10.11	LV8	 Tree Transplantation For trees unavoidably affected by the Project that have to be removed, where practical transplantation will be chosen as the top priority method of removal. If this is not possible or practical compensatory planting will be provided for trees unavoidably felled (See LV10). For trees unavoidably affected by the Project works that are transplanted, transplantation must be carried out in accordance with ETWB TCW 2/2004 and 3/2006. 	Minimize landscape and visual impact	Contractor	Within Project site and designated off-site locations	Prior to Construction stage	Landscape and Tree Management (GLTM) Section, DEVB Latest recommende d horticultural practices from GLTM Section, DEVB ETWB TCW 3/2006 Latest recommende d horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB	• N/A

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							2/2004	
S10.10.1 Table 10.11	LV9	 Compensatory Planting For trees unavoidably affected by the Project that have to be removed, where practical transportation will be chosen as the top priority method of removal but if this is not possible or practical compensatory planting will be provided for trees unavoidably felled. All felled trees shall be compensated for by planting trees to the satisfaction of relevant Government projects. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006. Compensatory tree planting may be incorporated into public open spaces and along roadside amenity areas affected by the construction works and therefore be part of the bigger wider planting plans. Onsite compensation planting is preferred but if necessary, additional receptor sites outside the Works Area shall be agreed separately with Government during the Tree Felling Application process. 	Minimize visual impact and also enhance landscape	Contractor	Within Project site	Construction stage	ETWB TCW 3/2006 Latest recommende d horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB ETWB TCW 2/2004	• N/A
			Cultural Heritage	Impact (Construct	on Phase)			

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S11.4.4	CH1	The contractor should be alerted during the construction on the possibility of locating archaeological remains and as a precautionary measure, AMO shall be informed immediately in case of discovery of antiquities or supposed antiquities in the subject sites.	To preserve any cultural heritage items which may be removed and damaged by the excavation	Contractor	During construction works for cut and cover tunnels	Construction stage	AMOs requirements	Implemented
S12.6.1	CH3	 Protective covering should be provided for the buildings in the form of plastic sheeting; Buffer zones should be provided between the construction works and the external walls of the buildings and should be as large as site restrictions allow and be marked out by temporary fencing or hoarding; An underpinning scheme is required to transfer the existing column loadings to a deeper rock stratum. The supporting system includes cutting the existing ground floor slab to expose the existing pile caps and then construct transfer beams at both sides of the pile caps. The transfer beams will tie up with the existing caps. Loadings of the transfer beams will be transferred to the rock socket piles installed at the two ends of the beams; The AAA settlement and tilting limit should be 6/8/10 mm and1/2000, 1/1500 and 1/1000; Monitoring of vibration levels will be undertaken during the construction phase and the Alert, Alarm and Action (AAA) vibration limit will be set at 5/6/7.5 mm/s. The monitoring proposal should be sent to AMO for comment;. 	Protect the building from damage from construction works	Contractor	Yau Ma Tei Police Station (Old Wing) (CKR-01)	Prior to commencement of and during the construction phase	Guidelines for Cultural Heritage Impact Assessment EIAO-TM Annex 10 and Annex 19 AMO Proposed Vibration Limits	• Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 Regular site inspections and monitoring works will be carried out by the contractor and the monitoring results will be submitted to the resident site staff of HyD to ensure compliance. 						
\$12.6.1		 Adopting diaphragm wall construction method; Grout curtain should be provided in front of the building; Recharging system should be installed as a contingency measure to mitigate the fluctuation of water table; the AAA settlement and tilting limit should be 6/8/10 mm and 1/2000, 1/1500 and 1/1000; Monitoring of vibration levels will be undertaken during the construction phase and the Alert, Alarm and Action (AAA) vibration limit will be set at 5/6/7.5 mm/s. The monitoring proposal should be sent to AMO for comment;. Regular site inspections and monitoring works will be carried out by the contractor and the monitoring results will be submitted to the resident site staff of HyD to ensure compliance. 	Protect the building from damage from construction works	Contractor	Yau Ma Tei Police Station (Old Wing) (CKR-01)	Prior to commencement of and during the construction phase	Guidelines for Cultural Heritage Impact Assessment EIAO-TM Annex 10 and Annex 19 AMO Proposed Vibration Limits	• Implemented
S12.6.1 Table 12.2		 The Alert, Alarm and Action (AAA) vibration limit will be set at 3/4/5 mm/s and a condition survey shall be carried out by the project proponent prior to the construction phase to confirm this assessment Vibration monitoring of the structure shall be employed during the construction phase to ensure that the level is not exceeded. The monitoring proposal should be sent to AMO for comment. 	Protect the building from damage from construction works	Contractor	Tin Hau Temple (CKR- 02)	Prior to commencement of and during the construction phase	Guidelines for Cultural Heritage Impact Assessment EIAO-TM Annex 10 and Annex 19 AMO	• Implemented

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							Proposed Vibration Limits	
				EM&A Project				
S13.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	Control EM&A Performance	Highways Department	All construction sites	Construction stage	• EIAO Guidance Note No. 4/2010 • TM-EIAO	Implemented
S13.2-13.4	EM2	 An Environmental Team needs to be employed as per the EM&A Manual; Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures; An environmental impact monitoring needs to be implemented by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	• EIAO Guidance Note No. 4/2010 • TM-EIAO	Implemented



		Impa	ct Monitoring Schedule for	YMTE		1
		2	0ct-25			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
	Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A		Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A			
12	13		15	16	17	18
		Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A				
19	20	21	22	23	24	25
	Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A					Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A
26	27	28	29	30	31	
					Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A	

Appendix H
Calibration Certificates
(Air Monitoring)



Aurecon Hong Kong Limited Unit 1608, 16/F, Tower B, Manulife Financial Centre, 223 – 231 Wai Yip Street, Kwun Ton, Kowloon Hong Kong S. A. R

Certification of Calibration

Information of Unit-under-test (UUT)

Date of Calibration:	15-Aug-2025 and 21-Aug-2025	Next Calibration Date:	15-Aug-26		
UUT Manufacturer:	Sibata	UUT Model No.:	LD-5R		
UUT Serial No.:	467356	Report Reference No.:	RPT-25-HVS-0157		
Calibration Location:	Tung Chung East	_			

Information of Reference Equipment

Reference Equipment Manufacturer:	Tisch Environmental	Tisch Environmental			
Reference Equipment Model No.:	TE-5170X	TE-5025A			
Reference Equipment Serial No.:	1086	3465			
Last Calibration Date:	15-Aug-25	2-Dec-24			
Next Calibration Date:	15-Oct-25	2-Dec-25			

Calibration of 1-Hour TSP Result

	Results from UUT	Results from Standard Equipment
Calibration Point	Mass Concentration (μg/m³)	Reference Concentration (µg/m³)
	X-axis	Y-axis
1	101	106
2	125	128
3	114	117
4	143	150
5	134	139
6	110	115
Average	121	126

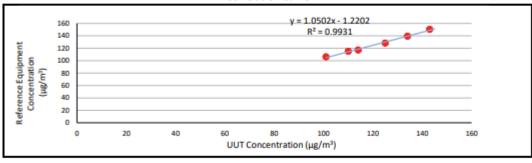
Linear Regression of Y on X

1				\neg
	Slope, mv: 1.0502	Intercept: -1.2202	*Correlation Coefficient: 0.9965	- 1
	Verification Test Result:	Strong Correlation, Results	were accepted.	- 1

^{*} If the Correlation Coefficient < 0.90, check and recalibrate.

Set Calibration Factor

Particulate Concentration by Reference Equipment (μg/m³):	126			
Particulate Concentration by UUT (μg/m³):	121			
Measuring Time, (min):	60			
K Factor = High Volume Sampler / IIIIT (ug/m³):	1.04			







Aurecon Hong Kong Limited Unit 1608, 16/F, Tower B, Manulife Financial Centre, 223 – 231 Wai Yip Street, Kwun Tong, Kowloon Hong Kong S. A. R

Certification of Calibration

Information of Unit-under-test (UUT)

Date of Calibration:	15-Aug-2025 and 21-Aug-2025	Next Calibration Date:	15-Aug-26
UUT Manufacturer:	Sibata	UUT Model No.:	LD-5R
UUT Serial No.:	467357	Report Reference No.:	RPT-25-HVS-0158
Calibration Location:	Tung Chung East		

Information of Reference Equipment

Reference Equipment Manufacturer:	Tisch Environmental	Tisch Environmental			
Reference Equipment Model No.:	TE-5170X	TE-5025A			
Reference Equipment Serial No.:	1086	3465			
Last Calibration Date:	15-Aug-25	2-Dec-24			
Next Calibration Date:	15-Oct-25	2-Dec-25			

Calibration of 1-Hour TSP Result

	Results from UUT	Results from Standard Equipment
Calibration Point	Mass Concentration (μg/m³)	Reference Concentration (µg/m³)
	X-axis	Y-axis
1	104	106
2	124	128
3	115	117
4	147	150
5	132	139
6	112	115
Average	122	126

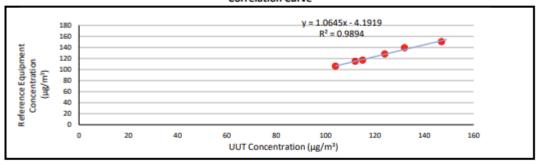
Linear Regression of Y on X

Slope, mv: <u>1.0645</u>	Intercept: -4.1919	*Correlation Coefficient: 0.9947
Verification Test Result:	Strong Correlation, Result	s were accepted.

^{*} If the Correlation Coefficient < 0.90, check and recalibrate.

Set Calibration Factor

Particulate Concentration by Reference Equipment (μg/m³):	126	
Particulate Concentration by UUT (μg/m³):	122	
Measuring Time, (min):	60	
K Factor = High Volume Sampler / UUT. (ug/m³):	1.03	







Aurecon Hong Kong Limited Unit 1608, 16/F, Tower B, Manulife Financial Centre, 223 – 231 Wai Ylp Street, Kwun Tong, Kowloon Hong Kong S. A. R

Certification of Calibration

Information of Unit-under-test (UUT)

Date of Calibration:	15-Aug-2025 and 21-Aug-2025	Next Calibration Date:	15-Aug-26
UUT Manufacturer:	Sibata	UUT Model No.:	LD-5R
UUT Serial No.:	467358	Report Reference No.:	RPT-25-HVS-0159
Calibration Location:	Tung Chung East	_	

Information of Reference Equipment

Reference Equipment Manufacturer:	Tisch Environmental	Tisch Environmental	ı		
Reference Equipment Model No.:	TE-5170X	TE-5025A	ı		
Reference Equipment Serial No.:	1086	3465	ı		
Last Calibration Date:	15-Aug-25	2-Dec-24	ı		
Next Calibration Date:	15-Oct-25	2-Dec-25	ı		

Calibration of 1-Hour TSP Result

	Results from UUT	Results from Standard Equipment
Calibration Point	Mass Concentration (μg/m³)	Reference Concentration (µg/m³)
	X-axis	Y-axis
1	108	106
2	130	128
3	119	117
4	154	150
5	144	139
6	118	115
Average	129	126

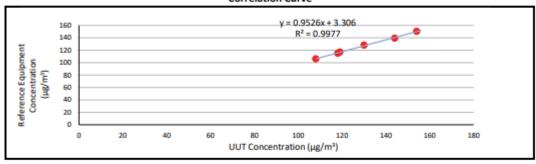
Linear Regression of Y on X

Slope, mv: <u>0.9526</u>	Intercept: 3.3060	*Correlation Coefficient: 0.9989
Verification Test Result:	Strong Correlation, Result	s were accepted.

^{*} If the Correlation Coefficient < 0.90, check and recalibrate.

Set Calibration Factor

Particulate Concentration by Reference Equipment (μg/m³):	126
Particulate Concentration by UUT (μg/m³):	129
Measuring Time, (min):	60
K Factor = High Volume Sampler / UUT, (μg/m³):	0.98







Aurecon Hong Kong Limited Unit 1608, 16/F, Tower B, Manulife Financial Centre, 223 – 231 Wai Yip Street, Kwun Tong, Kowloon Hong Kong S. A. R

Certification of Calibration

Information of Unit-under-test (UUT)

Date of Calibration:	15-Aug-2025 and 21-Aug-2025	Next Calibration Date:	15-Aug-26
UUT Manufacturer:	Sibata	UUT Model No.:	LD-5R
UUT Serial No.:	467359	Report Reference No.:	RPT-25-HVS-0160
Calibration Location:	Tung Chung East		

Information of Reference Equipment

	Reference Equipment Manufacturer:	Tisch Environmental	Tisch Environmental
	Reference Equipment Model No.:	TE-5170X	TE-5025A
	Reference Equipment Serial No.:	1086	3465
ı	Last Calibration Date:	15-Aug-25	2-Dec-24
	Next Calibration Date:	15-Oct-25	2-Dec-25

Calibration of 1-Hour TSP Result

	Results from UUT	Results from Standard Equipment
Calibration Point	Mass Concentration (μg/m³)	Reference Concentration (µg/m³)
	X-axis	Y-axis
1	103	106
2	125	128
3	113	117
4	146	150
5	135	139
6	114	115
Average	123	126

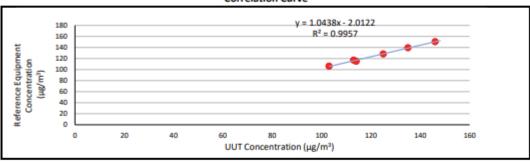
Linear Regression of Y on X

Slope, mv: 1.0438	Intercept: -2.0122	*Correlation Coefficient: 0.9978
Verification Test Result:	Strong Correlation, Results	were accepted.

^{*} If the Correlation Coefficient < 0.90, check and recalibrate.

Set Calibration Factor

Particulate Concentration by Reference Equipment (μg/m³):	126	
Particulate Concentration by UUT (μg/m³):	123	
Measuring Time, (min):	60	
K Factor = High Volume Sampler / UUT. (ug/m³):	1.03	







Aurecon Hong Kong Limited Unit 1608, 16/F, Tower B, Manulife Financial Centre, 223 – 231 Wai Yip Street, Kwun Tong, Kowloon Hong Kong S. A. R

Certification of Calibration

Information of Unit-under-test (UUT)

Date of Calibration:	15-Aug-2025 and 21-Aug-2025	Next Calibration Date:	15-Aug-26
UUT Manufacturer:	Sibata	UUT Model No.:	LD-5R
UUT Serial No.:	882107	Report Reference No.:	RPT-25-HVS-0164
Calibration Location:	Tung Chung East	_	

Information of Reference Equipment

٠			
	Reference Equipment Manufacturer:	Tisch Environmental	Tisch Environmental
	Reference Equipment Model No.:	TE-5170X	TE-5025A
	Reference Equipment Serial No.:	1086	3465
	Last Calibration Date:	15-Aug-25	2-Dec-24
	Next Calibration Date:	15-Oct-25	2-Dec-25

Calibration of 1-Hour TSP Result

	Results from UUT	Results from Standard Equipment
Calibration Point	Mass Concentration (μg/m³)	Reference Concentration (μg/m³)
	X-axis	Y-axis
1	109	106
2	132	128
3	119	117
4	154	150
5	142	139
6	118	115
Average	129	126

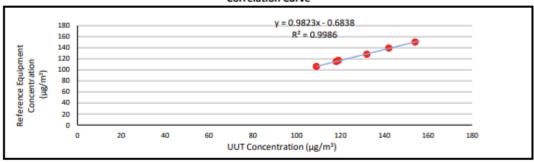
Linear Regression of Y on X

Slope, mv: <u>0.9823</u>	Intercept: -0.6838	*Correlation Coefficient: 0.9993
Verification Test Result: Strong Correlation		were accepted.

^{*} If the Correlation Coefficient < 0.90, check and recalibrate.

Set Calibration Factor

1			
	Particulate Concentration by Reference Equipment (µg/m³):	126	
	Particulate Concentration by UUT (µg/m³):	129	
	Measuring Time, (min):	60	
	K Factor = High Volume Sampler / UUT, (ug/m³):	0.98	







RECALIBRATION
DUE DATE:

December 2, 2025

Certificate of Calibration

Calibration Certification Information

Cal. Date: December 2, 2024

Calibration Model #: TE-5025A

Rootsmeter S/N: 438320

Ta: 293 Pa: 757.4 °K

Operator: Jim Tisch

Calibrator S/N: 3465

mm Hg

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4300	3.2	2.00
2	3	4	1	1.0190	6.4	4.00
3	5	6	1	0.9090	7.9	5.00
4	7	8	1	0.8680	8.8	5.50
5	9	10	1	0.7170	12.8	8.00

	Data Tabulation						
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)		
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)		
1.0093	0.7058	1.4238	0.9958	0.6963	0.8796		
1.0051	0.9863	2.0136	0.9916	0.9731	1.2439		
1.0031	1.1035	2.2512	0.9896	1.0886	1.3907		
1.0018	1.1542	2.3611	0.9884	1.1387	1.4586		
0.9965	1.3898	2.8476	0.9831	1.3711	1.7592		
	m= 2.08107			m=	1.30313		
QSTD[b=	-0.04295	QA	b=	-0.02653		
•	r=	0.99999	4.	r=	0.99999		

	Calculation	ns	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/∆Time	Qa=	Va/ΔTime
	For subsequent flow ra	te calculatio	ns:
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric pressure (mm Hg)
b: intercept	
m: slope	

RECALIBRATION

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

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

www.tisch-env.com

TOLL FREE: (877)263-7610 FAX: (513)467-9009





Site Information

and the state of t							
Location:	YMT Catholic Primary School	Site ID:	W-A1	Date:	02-Oct-2025		
Serial No:	1084	Model:	TE-5170X	Operator:	Andy Li		

Ambient Condition

Actual Pressure during Calibration (P _a) (mm Hg):	759.7	Actual Temperature during Calibration (T _a) (deg K):	302.7

Calibration Orifice

Model:	TE-5025A	Slope (m _c):	2.08107
Serial No.:	3465	Intercept (b _c):	-0.04295
Calibration Due Date:	2-Dec-25	Corr. Coeff:	0.99999

Calibration Data

Plate or	ΔH ₂ O	Qa, X-Axis	I, CFM	IC, Y-Axis		
Test #	(in)	(m³/min)	(chart)	(corrected)		
18	10.60	1.573	55.0	54.56		
13	8.30	8.30	8.30 1.394	1.394	52.0	51.58
10	6.30	1.217	48.0	47.62		
7	4.60	1.043	45.0	44.64		
5	2.50	0.774	41.0	40.67		

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 17.7215 b= 26.5455 Corr. Coeff= 0.9971

Calculations

Qa = $1/m_c*[Sqrt (\Delta H_2O*(P_a/P_{Std})*(T_{Std}/T_a))-b_c]$ IC = $1*(Sqrt (P_a/P_{Std})*(T_{Std}/T_a))$

 $IC = I*(Sqrt(P_a/P_{Std})*(T_{Std}/T_a))$

Qa = actual flow rate IC = corrected chart response I = actual chart response m_c = calibrator slope

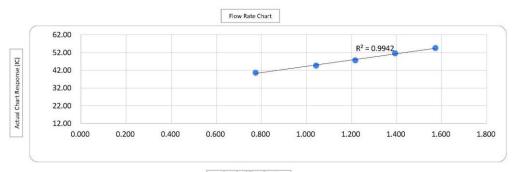
 b_c = calibrator intercept

m = sampler slope b = sampler intercept

b = sampler intercep T_{Std} = 298 deg K P_{Std} = 760 mm Hg

T_a = actual temperature during calibration (deg K)

P_a = actual pressure during calibration (mm Hg)



Standard Flow Rate (m3/min)





Site Information

Location:	Man Cheong Building	Site ID:	W-A6	Date:	02-Oct-2025
Serial No:	1050	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition

Actual Pressure during Calibration (Pa)	759.7	Actual Temperature during	302.7
(mm Hg):	739.7	Calibration (T _a) (deg K):	302.7

Calibration Orifice

Model:	TE-5025A	Slope (m _c):	2.08107
Serial No.:	3465	Intercept (b _c):	-0.04295
Calibration Due Date:	2-Dec-25	Corr. Coeff:	0.99999

Calibration Data

Plate or	ΔH ₂ O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test#	(in)	(m³/min)	(chart)	(corrected)
18	11.00	1.602	55.0	54.57
13	9.30	1.474	52.0	51.59
10	7.70	1.344	51.0	50.60
7	4.80	1.065	45.0	44.65
5	2.70	0.804	41.0	40.68

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m=	17.3905	b=	26.5418	Corr. Coeff=	0.9958	

Calculations

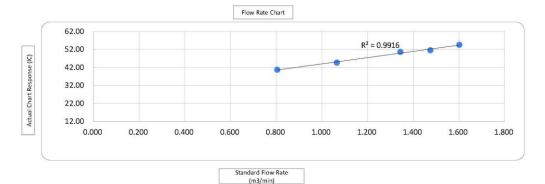
 $\label{eq:Qa} Qa = 1/m_c*[Sqrt~(\Delta H_2O*(P_a/P_{Std})*(T_{Std}/T_a))-b_c]$ $IC = I^*(Sqrt (P_a/P_{Std})^*(T_{Std}/T_a))$

Qa = actual flow rate IC = corrected chart response I = actual chart response m_c = calibrator slope b_c = calibrator intercept

m = sampler slope b = sampler intercept T_{Std} = 298 deg K

P_{Std} = 760 mm Hg

T_a = actual temperature during calibration (deg K) Pa = actual pressure during calibration (mm Hg)



02-Oct-2025 Checked by_ Date:





Site Information

Location:	YMT Catholic Primary School	Site ID:	W-A1	Date:	18-Oct-2025			
Serial No:	1084	Model:	TE-5170X	Operator:	Andy Li			

Ambient Condition

1	5X3X3366577344654	Company of the Compan	
Actual Pressure during Calibration (Pa)	759.5	Actual Temperature during Calibration (T _a) (deg K):	303.1
(mm Hg):		Calibration (T _a) (deg K):	

Calibration Orifice

Model:	TE-5025A	Slope (m _c):	2.08107	
Serial No.:	3465	Intercept (b _c):	-0.04295	
Calibration Due Date:	2-Dec-25	Corr. Coeff:	0.99999	

Calibration Data

Plate or	ΔH ₂ O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m³/min)	(chart)	(corrected)
18	10.50	1.564	56.0	55.51
13	8.40	1.401	54.0	53.53
10	6.20	1.207	49.0	48.57
7	4.50	1.031	46.0	45.60
5	2.60	0.789	40.0	39.65

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

20.7543 23.7003 Corr. Coeff= 0.9955

Calculations

 $Qa = 1/m_c * [Sqrt (\Delta H_2 O * (P_a/P_{Std}) * (T_{Std}/T_a)) - b_c]$ $IC = I*(Sqrt(P_a/P_{Std})*(T_{Std}/T_a))$

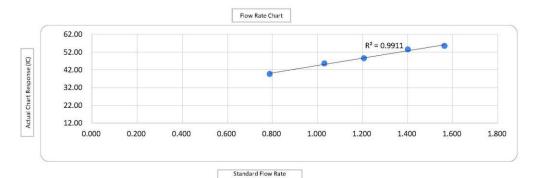
Qa = actual flow rate IC = corrected chart response I = actual chart response m_c = calibrator slope b_c = calibrator intercept

m = sampler slope b = sampler intercept T_{Std} = 298 deg K P_{Std} = 760 mm Hg

T_a = actual temperature during calibration (deg K) P_a = actual pressure during calibration (mm Hg)

Date:

18-Oct-2025



(m3/min)

Checked by_





Site Information

Location: Man Cheong Building Site ID: W-A6 Date: 18-Oct-2025							
Serial No:	1050	Model:	TE-5170X	Operator:	Andy Li		

Ambient Condition

Actual Pressure during Calibration (P _a) (mm Hg):	759.5	Actual Temperature during Calibration (T _a) (deg K):	303.1			

Calibration Orifice

Model:	TE-5025A	Slope (m _c):	2.08107
Serial No.:	3465	Intercept (b _c):	-0.04295
Calibration Due Date:	2-Dec-25	Corr. Coeff:	0.99999

Calibration Data

Plate or ΔH₂O		Qa, X-Axis	I, CFM	IC, Y-Axis	
Test #	(in)	(m³/min)	(chart)	(corrected)	
18	10.90	1.593	55.0	54.52	
13	9.40	1.481	53.0	52.54	
10	7.60	1.334	50.0	49.57	
7	4.70	1.053	44.0	43.62	
5	2.40	0.759	40.0	39.65	

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

18.2919 b= 25.2238 Corr. Coeff= 0.9963

Calculations

 $Qa = 1/m_c^*[Sqrt (\Delta H_2O^*(P_a/P_{Std})^*(T_{Std}/T_a)) - b_c]$ $IC = I*(Sqrt (P_a/P_{Std})*(T_{Std}/T_a))$

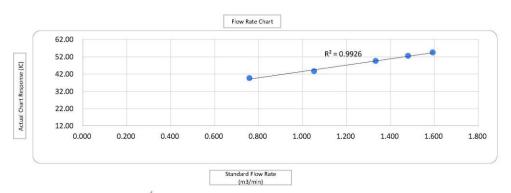
Qa = actual flow rate IC = corrected chart response I = actual chart response m_c = calibrator slope

b_c = calibrator intercept

m = sampler slope b = sampler intercept T_{std} = 298 deg K P_{std} = 760 mm Hg

T_a = actual temperature during calibration (deg K)

 P_a = actual pressure during calibration (mm Hg)



Checked by Date: 18-Oct-2025

Contract No. HY/2014/08			
Environmental Monitoring & Aud	iting		

Appendix I
Calibration Certificates (Noise)







Description:

Sound Level Meter

Manufacturer:

NTi

Type No .:

XL3 (Serial No.: A3A-01229-F0)

Microphone:

MC230A (Serial No.: A28290)

Preamplifier:

MA230 (Serial No.:1794)

Submitted by:

Customer:

Aurecon Hong Kong Limited

Address:

Unit 1608, 16/F, Tower B,

Manulife Financial Centre,

223-231 Wai Yip Street, Kwun Tong,

Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

✓ Within (31.5Hz – 8kHz)

☐ Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 23 July 2025

Date of calibration: 24 July 2025

Date of NEXT calibration: 23 July 2026

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Page 1 of 4

Date of issue: 24 July 2025

Certificate No.: APJ25-046-CC001

Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong

Tel: (852) 2668 3423

Fax:(852) 2668 6946

Homepage: http://www.aa-lab.com

E-mail: inquiry@aa-lab.com

(A+A)* L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature: Air Pressure: 24.6 °C

Relative Humidity:

1006 hPa 57.8 %

B&K 4226

3. Calibration Equipment:

Type Serial No.

Calibration Report Number

Traceable to

Multifunction Calibrator

2288467

AV240081

HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting/	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20-120	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
380				94		94.0	Ref
20-120	dBA	SPL	Fast	104	1000	104.0	±0.3
CHEVIOLES	narebect /			114		114.0	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20.120	JD 4	CDI	Fast	9.4	1000	94.0	Ref
20-120	-120 dBA SPL Slow 94 1000	94.0	±0.3				

Certificate No.: APJ25-046-CC001

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Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street , Fo Tan, Shatin, N.T., Hong Kong Tel: (852) 2668 3423 Fax: (852) 2668 6946

Homepage: http://www.aa-lab.com

E-mail: inquiry@aa-lab.com



Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)				App	lied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. We	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.3	±2.0
					63	94.2	±1.5
		SPL	Fast	94	125	94.2	±1.5
					250	94.1	±1.4
20-120	dB				500	94.1	±1.4
AD LUBO WATER	*00000000				1000	94.0	Ref
					2000	94.0	±1.6
					4000	93.9	±1.6
					8000	91.7	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading.	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
0.000		25. 300			31.5	54.9	-39.4 ±2.0
					63	68.0	-26.2 ±1.5
					125	78.1	-16.I ±1.5
	******	SPL	Fast	94	250	85.5	-8.6 ±1.4
20-120	dBA				500	90.9	-3.2 ±1.4
					1000	94.0	Ref
					2000	95.2	+1.2±1.6
					4000	94.9	+1.0 ±1.6
					8000	90.5	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
	121				31.5	91.3	-3.0 ±2.0
				63	93.4	-0.8 ±1.5	
				125	94.0	-0.2 ±1.5	
		SPL	Fast	94	250	94.1	-0.0±1.4
20-120	dBC				500	94.2	-0.0 ±1.4
Telephonesis.	70000				1000	94.0	Ref
					2000	93.9	-0.2 ±1.6
					4000	93.1	-0.8 ±1.6
					8000	88.6	-3.0 +2.1: -3.1

Certificate No.: APJ25-046-CC001



Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street , Fo Tan, Shatin, N.T., Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail: inquiry@aa-lab.com



5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.05
	63 Hz	± 0.05
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate No.: APJ25-046-CC001



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Homepage: http://www.aa-lab.com E

E-mail: inquiry@aa-lab.com



Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

NTi

Type No.:

XL3 (Serial No.: A3A-01235-F0)

Microphone:

MC230A (Serial No.: A30051)

Preamplifier:

MA230 (Serial No.:1895)

Submitted by:

Customer:

Aurecon Hong Kong Limited

Address:

Unit 1608, 16/F, Tower B,

Manulife Financial Centre,

223-231 Wai Yip Street, Kwun Tong,

Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

☑ Within (31.5Hz – 8kHz)

☐ Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 12 May 2025

Date of calibration: 13 May 2025

Date of NEXT calibration: 12 May 2026

Calibrated by:

Calibration Technician

Certified by:____

Mr. Ng Yan Wa Laboratory Manager

age 1 of 4

Date of issue: 13 May 2025

Certificate No.: APJ25-015-CC001

Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong

Tel: (852) 2668 3423 Homepage: http://www.aa-lab.com Fax:(852) 2668 6946

E-mail: inquiry@aa-lab.com



Calibration Precaution: 1.

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature: 24.7°C Air Pressure: 1006 hPa 62.1 % Relative Humidity:

3. Calibration Equipment:

Calibration Traceable to Type Serial No. Report Number **Multifunction Calibrator** B&K 4226 2288467 AV240081 **HOKLAS**

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Sett	ing of Uni	t-under-t	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
0-200	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
0-200	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
0.000	ID 4	CDI	Fast	0.4	1000	94.0	Ref
0-200	0-200 dBA SPL	SPL	Slow	94	1000	94.0	±0.3

Certificate No.: APJ25-015-CC001

Page 2 of 4

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E-mail: inquiry@aa-lab.com Homepage: http://www.aa-lab.com



Frequency Response

Linear Response

Sett	Setting of Unit-under-test (UUT)				ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.1	±2.0
					63	94.2	±1.5
					125	93.9	±1.5
					250	93.9	±1.4
0-200	dB	SPL	Fast	94	500	93.9	±1.4
					1000	94.0	Ref
					2000	94.0	±1.6
					4000	94.1	±1.6
					8000	92.8	+2.1; -3.1

A-weighting

Setti	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.6	-39.4 ±2.0
					63	68.0	-26.2 ±1.5
					125	77.8	-16.1 ±1.5
					250	85.3	-8.6 ± 1.4
0-200	dBA	SPL	Fast	94	500	90.7	-3.2 ±1.4
W. 11.42.000.00			11		1000	94.0	Ref
					2000	95.2	+1.2 ±1.6
					4000	95.1	+1.0 ±1.6
					8000	91.5	-1.1+2.1; -3.1

C-weighting

Sett	Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.0	-3.0 ±2.0
				63	93.4	-0.8 ±1.5	
			125	93.7	-0.2 ±1.5		
				250	93.9	-0.0 ±1.4	
0-200	dBC	SPL	Fast	94	500	93.9	-0.0 ±1.4
					1000	94.0	Ref
					2000	93.8	-0.2 ±1.6
					4000	93.3	-0.8 ±1.6
					8000	89.6	-3.0 +2.1: -3.1

Certificate No.: APJ25-015-CC001

Page 3 of 4

Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street , Fo Tan, Shatin, N.T., Hong Kong

Tel: (852) 2668 3423 Fax: (852) 2668 6946



5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.05
	125 Hz	± 0.10
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.10
	4000 Hz	± 0.10
	8000 Hz	± 0.10
0104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate No.: APJ25-015-CC001





Certificate of Calibration

for

Description:

Sound Level Calibrator

Manufacturer:

RION

Type No.:

NC-75

Serial No .:

35124528

Submitted by:

Customer:

Aurecon Hong Kong Limited

Address:

Unit 1608, 16/F, Tower B,

Manulife Financial Centre,

223-231 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

✓ Within

☐ Outside

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:

The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 12 February 2025

Date of calibration: 13 February 2025

Date of NEXT calibration: 12 February 2026

Calibrated by:

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 13 February 2025

Certificate No.: APJ24-145-CC002

Page 1 of 2

Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946



1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature: 24.3 °C
Air Pressure: 1006 hPa
Relative Humidity: 68.2 %

4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV240109	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nomina		Accept lower level	Accept upper level	Measured value
dl		dB	dB	dB
94	.0	93.6	94.4	94.1

6. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 60942 Class 1.

Note:

The values given in this certification only related to the values measured at the time of the calibration.

Certificate No.: APJ24-145-CC002

(A+A) *L Page 2 of 2

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Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

Certificate of Calibration

Description:

Sound Level Calibrator

Manufacturer:

RION

Type No.:

NC-75

Serial No.:

34724244

Submitted by:

Customer:

Aurecon Hong Kong Limited

Address:

Unit 1608, 16/F, Tower B,

Manulife Financial Centre,

223-231 Wai Yip Street, Kwun Tong,

Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

✓ Within

☐ Outside

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:

The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 10 July 2025

Date of calibration: 11 July 2025

Date of NEXT calibration: 10 July 2026

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa aboratory Manager

Date of issue: 11 July 2025

Certificate No.: APJ25-045-CC001

Page 1 of 2

Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong Fax:(852) 2668 6946 Tel: (852) 2668 3423

Homepage: http://www.aa-lab.com

E-mail: inquiry@aa-lab.com



1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature:	24.6 °C
Air Pressure:	1006 hP
Relative Humidity:	57.5 %

4. Calibration Equipment:

Test Equipment	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV240109	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value	Accept lower level	Accept upper level	Measured value
dB	dB	dB	dB
94.0	93.6	94.4	94.0

Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ25-045-CC001

Page 2 of 2



Appendix J
The Certification of Laboratory with HOKLAS
Accredited Analytical Tests



Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation

認可證書

This is to certify that 特此證明

ACUMEN LABORATORY AND TESTING LIMITED

浩科檢測中心有限公司

Workshop 04, 7/F, The Whitney, No. 183 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong 香港九龍觀塘偉業街183號The Whitney 7樓04室

is accredited by the Hong Kong Accreditation Service (HKAS) to ISO/IEC 17025:2017 for performing specific laboratory activities as listed in the scope of accreditation within the test category of 獲香港語可處根據ISO/IEC 17025:2017認可 進行戰於認可範圍內下透測試類別中的指定實驗所活動

Environmental Testing

環境測試

This accreditation to ISO/IEC 17025-2017 demonstrates technical competence for a defined scope and the implementation of a management system relevant to laboratory operation (see joint IAF-ILAC-ISO Communique).

此項 ISO/IEC 17025:2017 的認可資格證明此實驗所具備指定範疇內所須的技術能力並 實施一將與實驗所運作相關的管理體系 (見鹽原認可論增・圖歷實驗所認可合作組織及醫際標準化組織的聯合公報)。

The common seal of HKAS is affixed hereto by the authority of the HKAS Executive 現經香港認可處執行機關授權在此蓋上香港認可處的印章

HO Chun-wah, Executive Administrator

執行幹事 何振華

Issue Date: 29 October 2024

簽發日期:二零二四年十月二十九日

Registration Number: HOKLAS 241

Date of First Registration: 16 July 2014 首次註冊日期:二零一四年七月十六日

This certificate is issued subject to the terms and conditions laid down by HKAS 丰雄吉桉州香油即可肃訂立的典款及推件發出

L002508



Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation

認可證書

This is to certify that 特此證明

ALS TECHNICHEM (HK) PTY LIMITED

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong 香港新界葵涌永業街1-3號忠信針織中心11樓

is accredited by the Hong Kong Accreditation Service (HKAS) to ISO/IEC 17025:2017 for performing specific laboratory activities as listed in the scope of accreditation within the test category of 獲香港認可處根據ISO/IEC 17025:2017認可 進行戰於認可範圍內下透測試類別中的指定實驗所活動

Environmental Testing

環境測試

This accreditation to ISO/IEC 17025:2017 demonstrates technical competence for a defined scope and the implementation of a management system relevant to isboratory operation (see joint IAF-ILAC-ISO Communiqué).

此項 ISO/IEC 17025:2017 的認可資格證明此實驗所具備指定範疇內所須的技術能力並 曾括一套與實驗所運作相關的管理體系 (見國際認可論地、國際實驗所認可合作組織及國際標準化組織的聯合公報)。

The common seal of HKAS is affixed hereto by the authority of the HKAS Executive 現經香港認可處執行機關授權在此蓋上香港認可處的印章

SHUM Wai-leung, Executive Administrator 執行幹事 沈偉良

Issue Date: 28 February 2020

簽發日期:二零二零年二月二十八日

註冊號碼:

Registration Number : HOKLAS 066

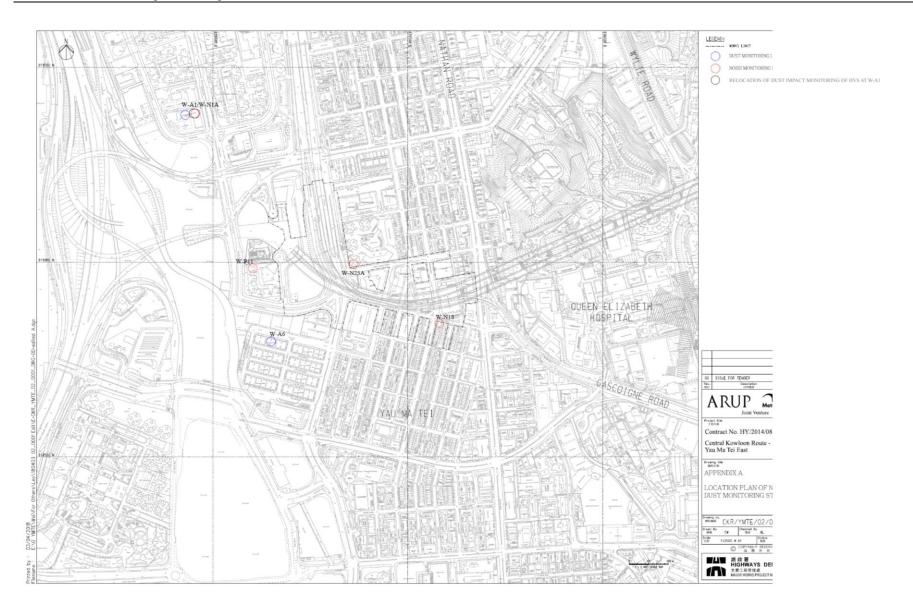
Date of First Registration: 15 September 1995 首次註冊日期:一九九五年九月十五日

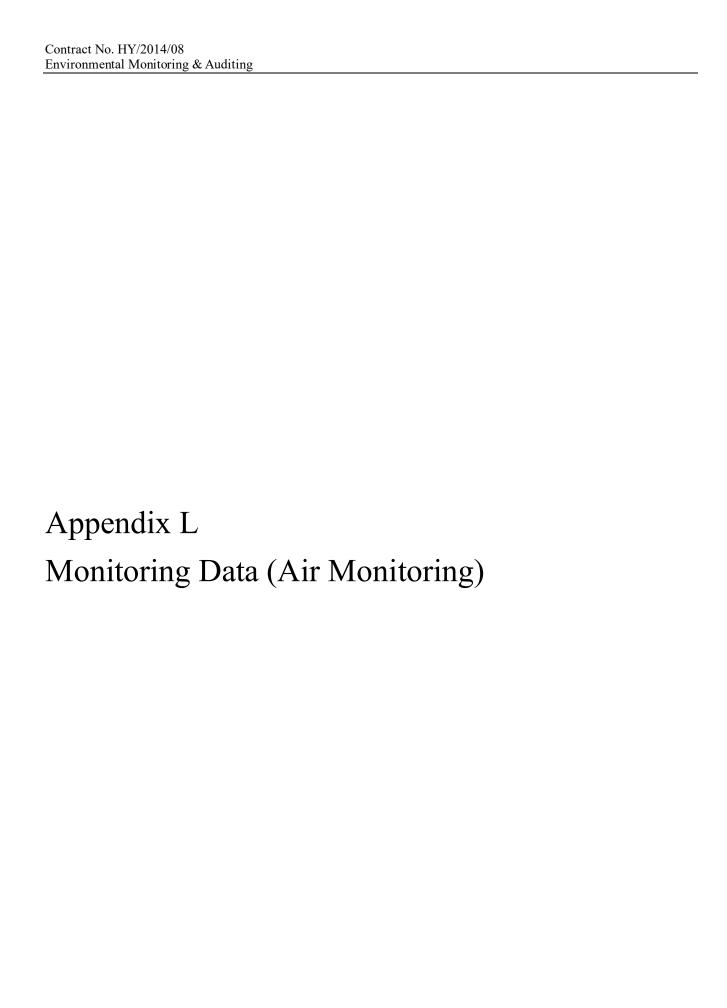
This certificate is issued subject to the terms and conditions laid down by HKAS 本證書按照香港認可處訂立的條款及條件發出

L001934

Contract No. HY/2014/08
Environmental Monitoring & Auditing

Appendix K
Location Plan of Noise and Air Quality
Monitoring Station





Yau Ma Tei Catholic Primary School (Hoi Wang Road) (W-A1) 06, 08, 14, 20, 25 and 31 October 2025 Location:

Monitoring date:

TSP 1-hour Parameter: Nearby traffic Other Factors:

			1-hour TSP (µ	ug/m³)				
Date	Weather	Start Time	1 st Hour (μg/m³)	2 nd Hour (μg/m³)	3 rd Hour (μg/m³)			
06/10/2025	Sunny	14:20	26	32	35			
08/10/2025	Sunny	13:33	29	28	32			
14/10/2025	Fine	10:38	18	15	17			
20/10/2025	Cloudy	9:48	32	26	26			
25/10/2025	25/10/2025 Fine		34	27	25			
31/10/2025	Cloudy	9:56	42	42	50			
Mini	mum: 15 μg/m ²	3		Maximum: 50 μg/m ³				

Location:

Man Cheong Building (W-A6) 06, 08, 14, 20, 25 and 31 October 2025 Monitoring date:

TSP 1-hour Parameter: Nearby traffic Other Factors

			1-hour TSP (μg/m ³)	
Date	Weather	Start Time	1 st Hour (μg/m³)	2 nd Hour (μg/m³)	3 rd Hour (μg/m³)
06/10/2025	Sunny	15:25	36	26	28
08/10/2025	Sunny	10:12	33	31	29
14/10/2025	Fine	13:03	26	23	25
20/10/2025	Cloudy	11:29	38	41	36
25/10/2025	Fine	11:57	32	34	32
31/10/2025	Cloudy	11:34	66	62	60
	Minimum: 23	ug/m ³		Maximum: 66 μg	$/\mathrm{m}^3$

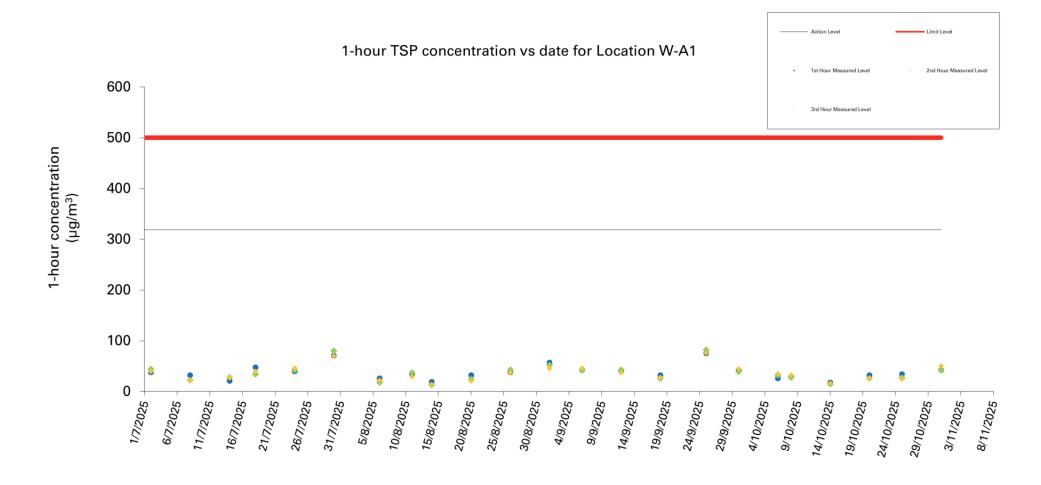


Figure 1: Graphical Illustration of Measured 1-hour TSP (μg/m³) Levels at W-A1

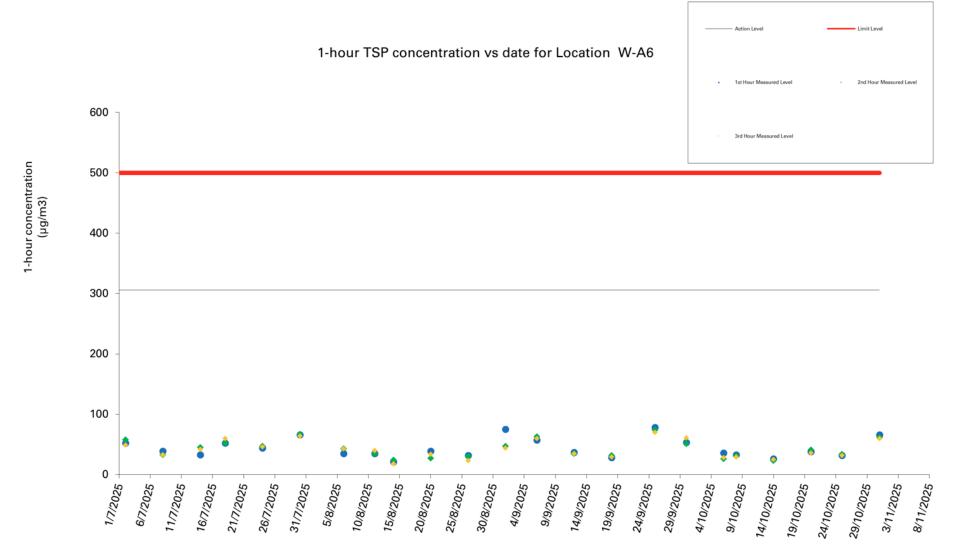


Figure 2: Graphical Illustration of Measured 1-hour TSP (μg/m³) Levels at W-A6

Yau Ma Tei Catholic Primary School (Hoi Wang Road) (W-A1) 06, 08, 14, 20, 25 and 31 October 2025 Location:

Monitoring date:

Parameter: TSP 24-hour Other Factors Nearby traffic

Summary of TSP-24hr Concrentration (μ g/m³) at Location W-A1

Date of Calibration:	2-Oct-25	Slope =	17.7215
Calibration due date:	17-Oct-25	Intercept =	26.5455
Date of Calibration:	18-Oct-25	Slope =	20.7543
Calibration due date:	2-Nov-25	Intercept =	23.7003

Start Date	Weather Condition	Elapse Time			Chart Reading			Avg Air Temp	Avg Atmospheric Pressure	Flow Rate	Standard Air Volume	Filter Weight (g)		Particulat e weight	Corr.
	Condition	Initial Final Actual (min)		Min	Max	Avg	(°C)	(hPa)	(m³/min)	(m ³)	Initial	Final	(g)	(μg/m ³)	
6/10/2025	Sunny	11393.6	11417.6	1440.0	39	40	39.5	29.0	1013.4	0.72	1032	2.6737	2.6946	0.0209	20
8/10/2025	Sunny	11417.6	11441.6	1440.0	39	40	39.5	29.7	1013.2	0.71	1028	2.7341	2.8055	0.0714	69
14/10/2025	Fine	11441.6	11465.6	1440.0	39	39	39.0	29.4	1013.4	0.69	989	2.7077	2.7384	0.0307	31
20/10/2025	Cloudy	11465.6	11489.6	1440.0	39	39	39.0	24.6	1013.1	0.74	1063	2.6988	2.7499	0.0511	48
25/10/2025	Fine	11489.6	11513.6	1440.0	38	39	38.5	26.1	1015.6	0.71	1028	2.7076	2.7714	0.0638	62
31/10/2025	Cloudy	11513.6	11537.6	1440.0	39	40	39.5	25.6	1016.4	0.77	1102	2.6930	2.7842	0.0912	83
									Maximum:	83	$\mu g/m^3$	Minimum:	20	$\mu g/m^3$	

Location: Man Cheong Building (W-A6)

Monitoring date: 06, 08, 14, 20, 25 and 31 October 2025

14452.5

14476.5

14500.5

1440.00

1440.00

1440.00

39

39

39

Parameter: TSP 24-hour Other Factors Nearby traffic

Summary of TSP-24hr Concrentration (μ g/m³) at Location W-A6

											on due date:	17-Oct-25		Intercept =	26.5418			
										Date of	Calibration:	18-Oct-25		Slope =	18.2919			
										Calibrati	on due date:	2-Nov-25		Intercept =	25.2238			
Start Date	Weather		Elapse Time Chart Reading Avg Air Temp Armspheric Pressure		Chart Keading		Chart Reading			Chart Reading			Flow Air Volume		Filter Weight (g)		Particulate weight	Conc.
	Condition	Initial	Final	Actual (min)	Min	Max	Avg	(°C)	(hPa)	(m³/min)	(m ³)	Initial Final	Final	(g)	(μg/m ³)			
6/10/2025	Sunny	14356.5	14380.5	1440.00	40	41	40.5	29.0	1013.4	0.79	1134	2.6778	2.7202	0.0424	37			
8/10/2025	Sunny	14380.5	14404.5	1440.00	39	40	39.5	29.7	1013.2	0.73	1048	2.7363	2.8039	0.0676	65			
14/10/2025	Fine	14404.5	14428.5	1440.00	39	39	39.0	29.4	1013.4	0.70	1008	2.7029	2.7319	0.0290	29			

24.6

26.1

25.6

1013.1

1015.6

1016.4

0.75

0.78

1086

1125

39.0

39.5

39.0

39

40

0.76 | 1091 | 2.7072 | 2.7825 | 0.0753 | 69 Maximum: 69 μg/m³ | Minimum: 29 μg/m³

2.7670

2.7839

2.6968

2.7082

2-Oct-25

Slope = 17.3905

65

67

0.0702

0.0757

Date of Calibration:

20/10/2025

25/10/2025

31/10/2025

Cloudy

Fine

Cloudy

14428.5

14452.5

14476.5

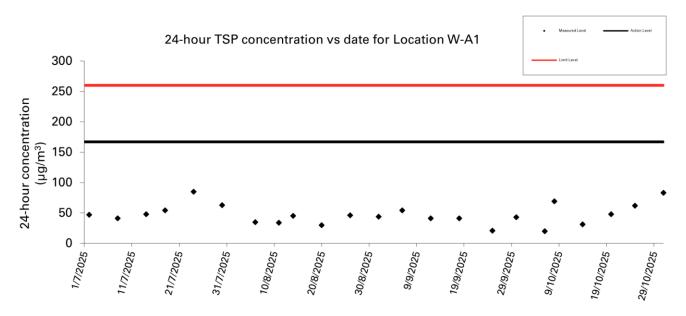


Figure 3: Graphical Illustration of Measured 24-hour TSP (μg/m³) Levels at W-A1

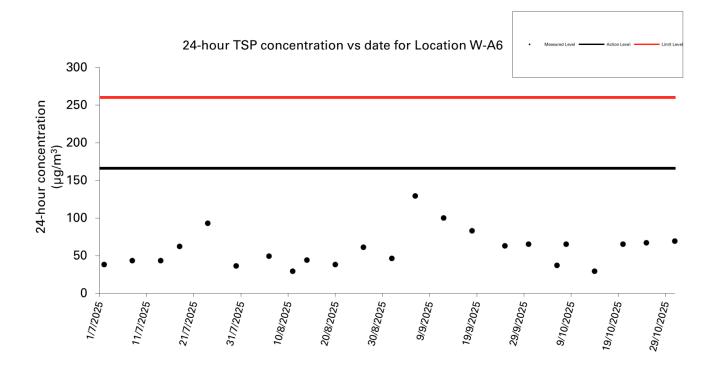
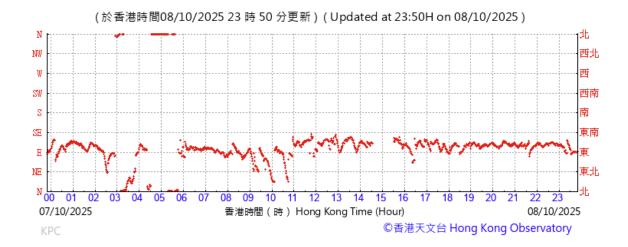
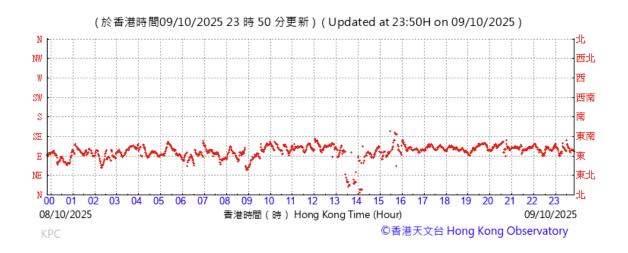


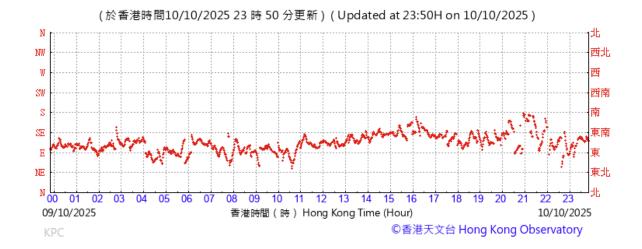
Figure 4: Graphical Illustration of Measured 24-hour TSP (μg/m³) Levels at W-A6

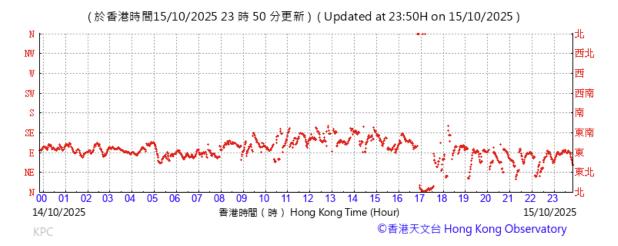
Wind direction data for 06, 07, 08, 09, 14, 15, 20, 21, 25, 26, 31 October and 01 November 2025

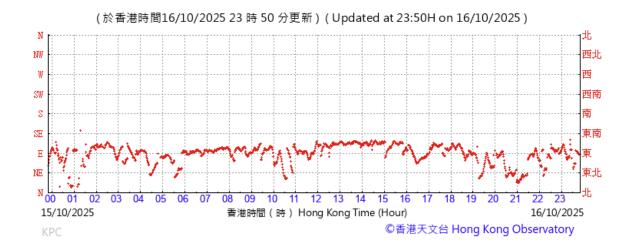




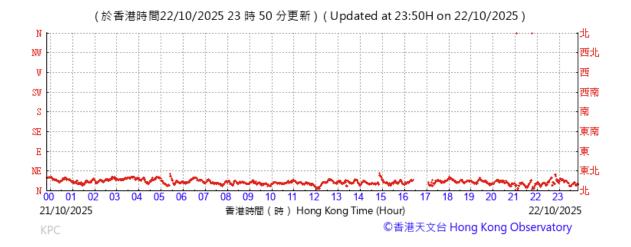


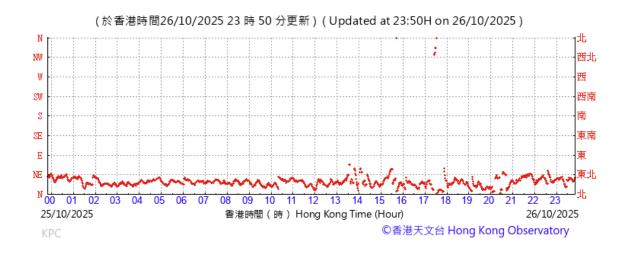


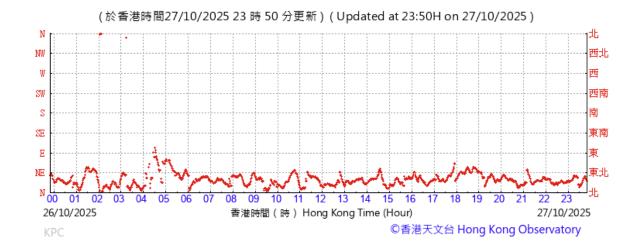




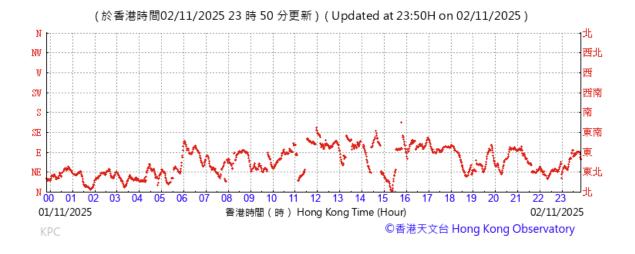










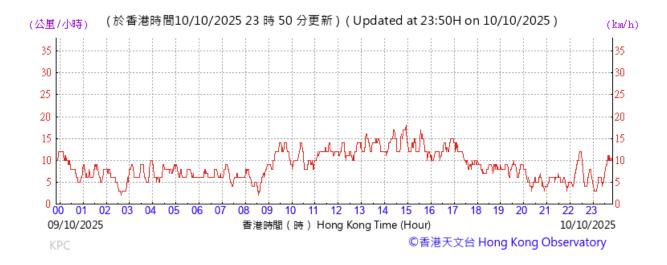


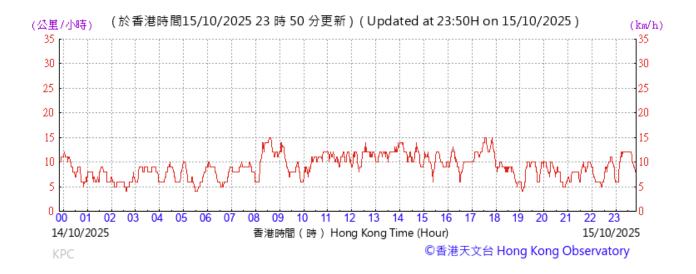
Wind speed data for 06, 07, 08, 09, 14, 15, 20, 21, 25, 26, 31 October and 1 November 2025

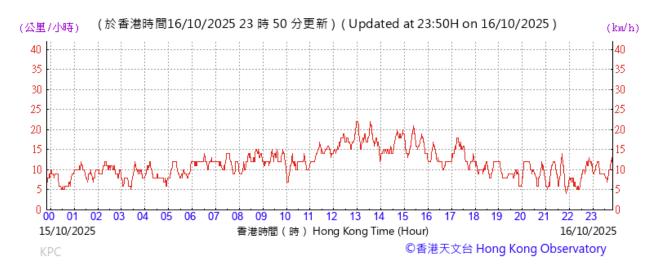












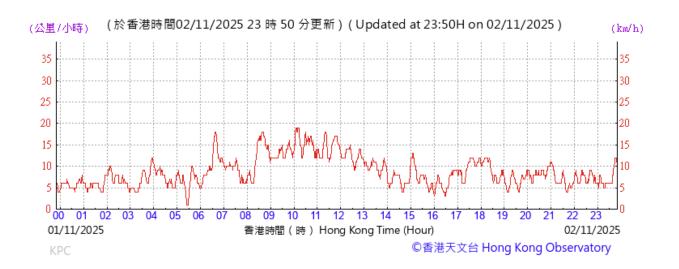


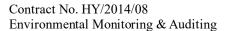












Appendix M Monitoring Data (Noise) Location: Yau Ma Tei Catholic Primary School (Hoi Wang Road) (W-N1A)

Monitoring date: 06, 08, 14, 20, 25 and 31 October 2025

 $\begin{array}{ll} \text{Parameter}: & L_{\text{eq}},\,L_{10},\,L_{90} \\ \text{Other Factors} & \text{Nearby traffic} \end{array}$

Noise Monitoring data:

Date	Weather	Start Time	-	End Time	Leq	L_{10}	L ₉₀	Wind speed (m/s)
06/10/2025	Sunny	10:11	-	10:41	60.8	61.8	56.8	2.0
08/10/2025	Sunny	10:25	-	10:55	59.8	61.2	55.6	4.0
14/10/2025	Fine	10:36	-	11:06	60.0	60.8	59.1	3.1
20/10/2025	Cloudy	9:43	-	10:13	58.9	59.6	58.0	4.9
25/10/2025	Fine	10:13	-	10:43	60.4	63.5	59.0	4.6
31/10/2025	Cloudy	9:55	-	10:25	56.6	60.2	52.9	1.9

Remarks: Examination was not scheduled at Yau Ma Tei Catholic Primary School during the reporting month.

Location: Hydan Place (W-N18)

Monitoring date: 06, 08, 14, 20, 25 and 31 October 2025

 $\begin{array}{ll} Parameter: & L_{eq}, L_{10}, \ L_{90} \\ Other \ Factors & Nearby \ traffic \end{array}$

Noise Monitoring data:

Date	Weather	Start Time	-	End Time	L_{eq}	L_{10}	L_{90}	Wind speed (m/s)
06/10/2025	Sunny	10:32	-	11:02	66.2	68.3	64.3	2.3
08/10/2025	Sunny	13:30	-	14:00	67.9	71.3	65.1	4.6
14/10/2025	Fine	13:46	-	14:16	67.2	71.2	65.5	3.6
20/10/2025	Cloudy	14:06	-	14:36	69.5	71.4	67.4	4.7
25/10/2025	Fine	13:30	-	14:00	66.3	70.4	65.2	2.4
31/10/2025	Cloudy	14:03	-	14:33	66.5	70.5	64.8	3.8

Location: Prosperous Garden Block 1 (W-N25A)

Monitoring date: 06, 08, 14, 20, 25 and 31 October 2025

 $\begin{array}{ll} Parameter: & L_{eq,}\,L_{10,}\,\,L_{90} \\ Other\,\,Factors & Nearby\,\,traffic \end{array}$

Noise Monitoring data:

Date	Weather	Start Time	-	End Time	L_{eq}	L_{10}	L ₉₀	Wind speed (m/s)
06/10/2025	Sunny	11:11	-	11:41	68.3	73.4	65.2	2.5
08/10/2025	Sunny	14:04	-	14:34	69.2	72.9	65.9	4.3
14/10/2025	Fine	14:27	-	14:57	72.0	75.7	68.4	3.3
20/10/2025	Cloudy	14:51	-	15:21	73.4	75.1	71.1	4.4
25/10/2025	Fine	15:02	-	15:32	71.4	75.9	67.1	2.6
31/10/2025	Cloudy	14:42	_	15:12	72.0	73.9	68.7	3.1

Location: The Coronation Tower 1 (W-P11)

Monitoring date: 06, 08, 14, 20, 25 and 31 October 2025

 $\begin{array}{ll} Parameter: & L_{eq.}\,L_{10,}\,L_{90} \\ Other\ Factors & Nearby\ traffic \end{array}$

Noise Monitoring data:

Date	Weather	Start Time	-	End Time	Leq	L_{10}	L ₉₀	Wind speed (m/s)
06/10/2025	Sunny	11:02	-	11:32	65.5	67.8	63.7	2.6
08/10/2025	Sunny	11:20	-	11:50	65.1	68.1	63.9	4.8
14/10/2025	Fine	14:04	-	14:34	65.6	66.2	65.0	3.3
20/10/2025	Cloudy	10:40	-	11:10	66.0	67.1	65.0	4.6
25/10/2025	Fine	11:12	-	11:42	64.2	64.7	63.6	4.5
31/10/2025	Cloudy	10:47	-	11:17	60.6	64.2	56.5	3.2

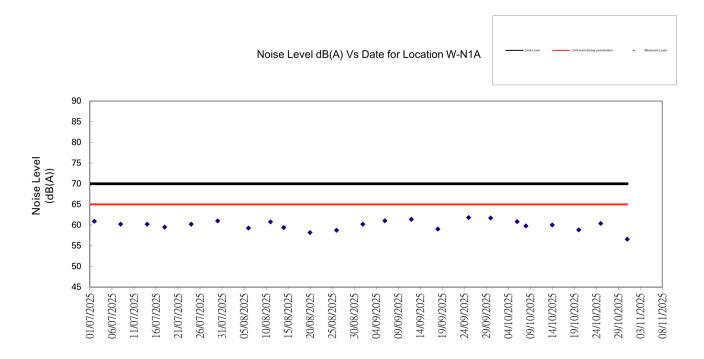


Figure 1: Graphical Illustration of Measured Noise Levels at W-N1A

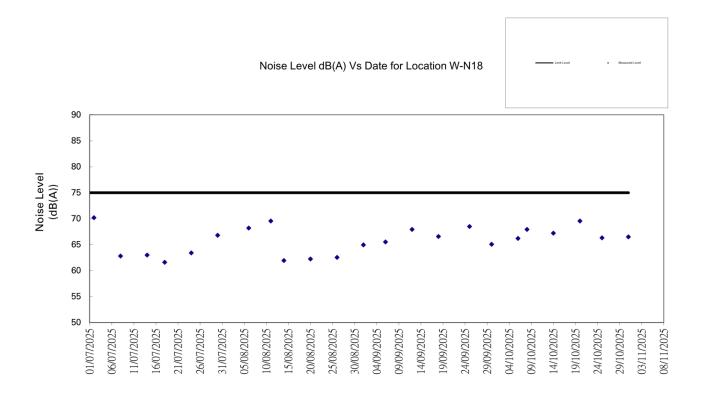


Figure 2: Graphical Illustration of Measured Noise Levels at W-N18

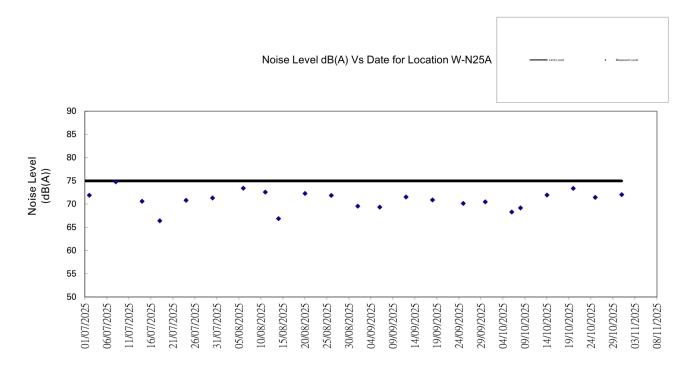


Figure 3: Graphical Illustration of Measured Noise Levels at W-N25A

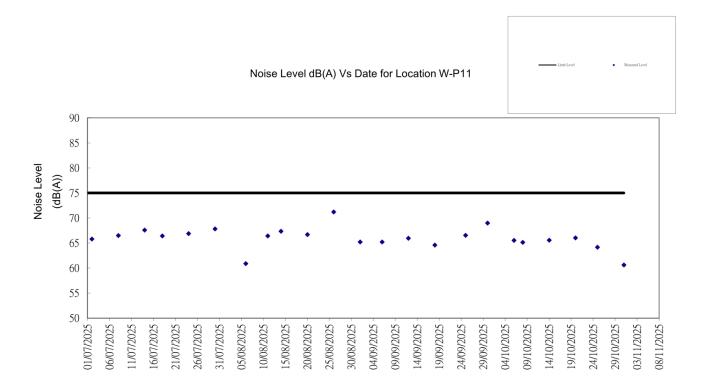


Figure 4: Graphical Illustration of Measured Noise Levels at W-P11

Contract No. HY/2014/08
Environmental Monitoring & Auditing

Appendix N Waste Flow Table

Monthly Summary Waste Flow Table

Name of Department: Highways Department Contract No. / Works Order No.: HY/2014/08

Monthly Summary Waste Flow Table for October 2025

[to be submitted not later than the 15th day of each month following reporting month] (All quantities shall be rounded off to 2 decimal places.)

		Actual	Quantities of <u>Ine</u>	t Construction Wa	iste Generated Mo	onthly
Month	(a)=(b)+(c)+(d)+(e)+ (f)+ (g)+ (h)+ (i)+ (j)+ (k) Total Quantity Generated	(b) Hard Rock and Large Broken	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill	(f) Imported Fill
	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)
Jan-25	13132.80	540.30	0.00	1156.60	1303.10	9936.80
Feb-25	20719.10	156.90	0.00	0.00	568.90	19863.00
Mar-25	22668.26	501.20	0.00	0.00	1613.20	20461.30
Apr-25	20858.50	347.20	0.00	0.00	112.10	19984.10
May-25	16744.61	337.20	0.00	0.00	343.50	15932.80
Jun-25	8480.70	378.10	0.00	0.00	361.00	7640.90
Sub-total	102603.97	2260.90	0.00	1156.60	4301.80	93818.90
Jul-25	5121.60	351.60	0.00	0.00	732.60	3930.60
Aug-25	3578.00	196.50	343.10	0.00	679.60	2191.00
Sep-25	5784.50	297.10	0.00	0.00	376.40	4944.10
Oct-25	5207.60	475.60	0.00	0.00	1007.20	3560.70
Nov-25						
Dec-25						
Total	122295.67	3581.70	343.10	1156.60	7097.60	108445.30
2018	51057.90	0.00	0.00	0.00	47715.60	2877.40
2019	112830.10	541.00	1523.80	13525.00	93132.90	3155.60
2020	193021.92	58778.00	1205.60	19108.60	112556.80	0.00
2021	104679.02	6461.30	1393.70	1144.70	92950.20	1542.90
2022	114787.22	3600.50	1804.50	18471.20	90202.70	0.00
2023	192946.67	73219.70	1670.00	20008.60	96991.50	0.00
2024	282726.21	52152.28	25269.83	70408.56	128027.11	4773.80
Accumulated Total	1174344.71	198334.48	33210.53	143823.26	668674.41	120795.00

	Actual Quantities of Non-inert Construction Waste Generated Monthly								
Month	(§		(h Paper/ ca packa	ardboard	(i Plas		(Chemica	j) al Waste	(k) Others, e.g. General Refuse disposed at Landfill
	(in '00	00kg)	(in '00)0kg)	(in '00	00kg)	(in '00	00kg)	(in 'tonnes)
	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated
Jan-25	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	195.60
Feb-25	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	128.70
Mar-25	0.00	2.10	0.00	0.26	0.00	0.00	0.00	0.00	90.20
Apr-25	0.00	332.00	0.00	0.80	0.00	0.00	0.00	0.00	82.30
May-25	0.00	71.90	0.00	0.00	0.00	0.01	0.00	0.00	59.20
Jun-25	0.00	28.10	0.00	0.00	0.00	0.00	0.00	0.00	72.60
Sub-total	0.00	435.70	0.00	1.46	0.00	0.01	0.00	0.00	628.60
Jul-25	0.00	25.80	0.00	0.00	0.00	0.00	0.00	0.00	81.00
Aug-25	0.00	91.80	0.00	0.80	0.00	0.00	0.00	0.00	75.20
Sep-25	0.00	48.20	0.00	0.00	0.00	0.00	0.00	0.00	118.70
Oct-25	0.00	61.40	0.00	0.20	0.00	0.000	0.00	0.00	102.50
Nov-25									
Dec-25									
Total	0.00	662.90	0.00	2.46	0.00	0.01	0.00	0.00	1006.00
2018	28.40	0.00	0.00	0.00	0.00	0.00	2.00	0.00	434.50
2019	0.00	9.10	3.40	6.80	0.00	0.00	5.20	0.00	927.30
2020	69.20	0.00	3.30	0.00	0.02	0.00	25.30	0.00	1275.10
2021	30.20	0.00	4.80	0.00	0.02	0.00	25.50	0.00	1125.70
2022	108.60	0.00	3.30	0.40	0.02	0.00	1.20	0.00	594.80
2023	0.00	65.70	0.00	2.71	0.00	0.06	0.00	0.00	988.40
2024	0.00	143.41	0.00	5.28	0.00	0.81	0.00	4.00	1941.13
Accumulated Total	236.40	881.11	14.80	17.65	0.06	0.88	59.20	4.00	8292.93



Appendix O
Statistics on Complaint, Notifications of
Summons and Successful Prosecutions

Statistical Summary of Exceedances

	Air Quality	
Reporting Period	Action Level	Limit Level
1 – 31 October 2025	0	0
	Noise	
Reporting Period	Action Level	Limit Level
1 – 31 October 2025	1	0

Statistical Summary of Environmental Complaints

Danauting Danied		Environmental Complaint Sta	tistics
Reporting Period	Frequency	Cumulative	Complaint Nature
1 – 31 October 2025	1	182	Noise Impact

Statistical Summary of Environmental Non-compliance

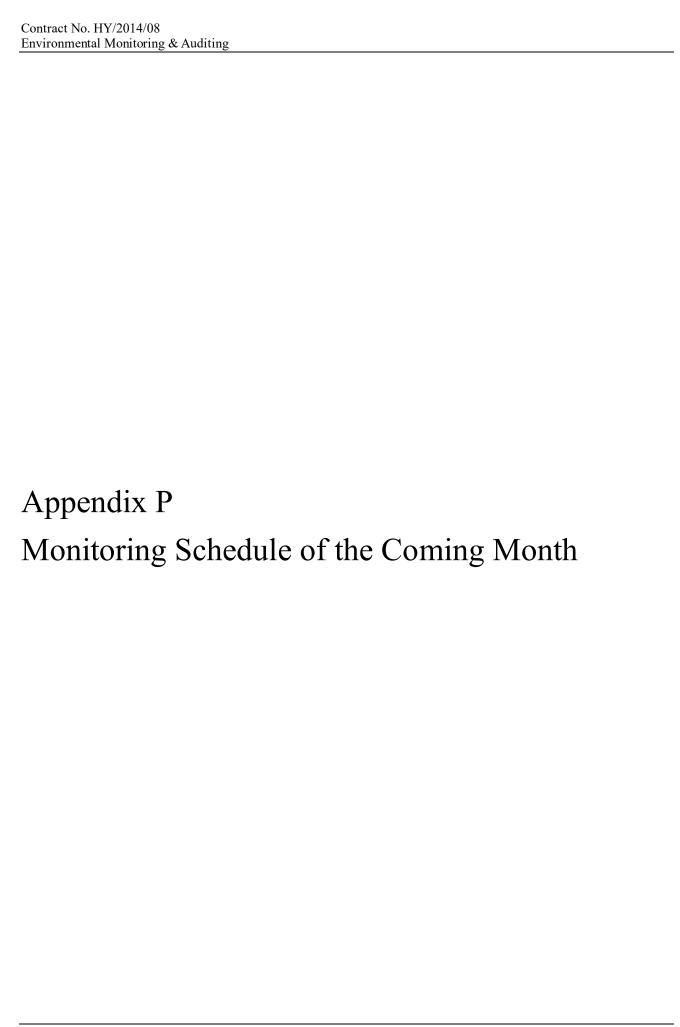
Donauting David	En	vironmental Non-compliance S	Statistics
Reporting Period	Frequency	Cumulative	Details
1 – 31 October 2025	0	2	N/A

Statistical Summary of Environmental Summons

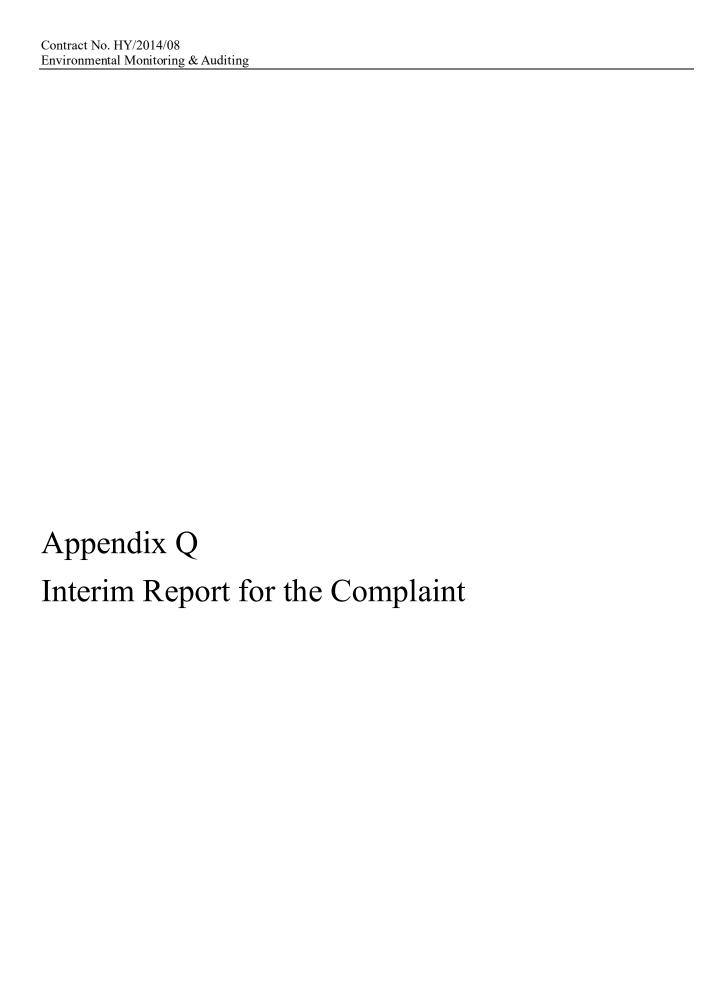
Donauting David		Environmental Summons Stat	istics
Reporting Period	Frequency	Cumulative	Details
1 – 31 October 2025	0	1	N/A

Statistical Summary of Environmental Prosecution

Donauting Davied	Environmental Prosecution Statistics					
Reporting Period	Frequency	Cumulative	Details			
1 – 31 October 2025	0	0	N/A			



Impact Monitoring Schedule for YMTE							
Nov-25							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
						1	
			_		_		
2	3	4	5 Impact	6	7	8	
			Air monitoring for W-A6 &W-A1				
			Noise monitoring for W-N1A,				
			W-P11,W-N18 & W-N25A				
9	10	11	12	13	14	15	
		Impact					
		Air monitoring for W-A6 &W-A1					
		Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A					
16	17 Impact	18	19	20	21	22 Impact	
	Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A,					Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A,	
	W-P11,W-N18 & W-N25A					W-P11,W-N18 & W-N25A	
23	24	25	26	27	28	29	
					Impact		
					Air monitoring for W-A6 &W-A1		
					Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A		
30							

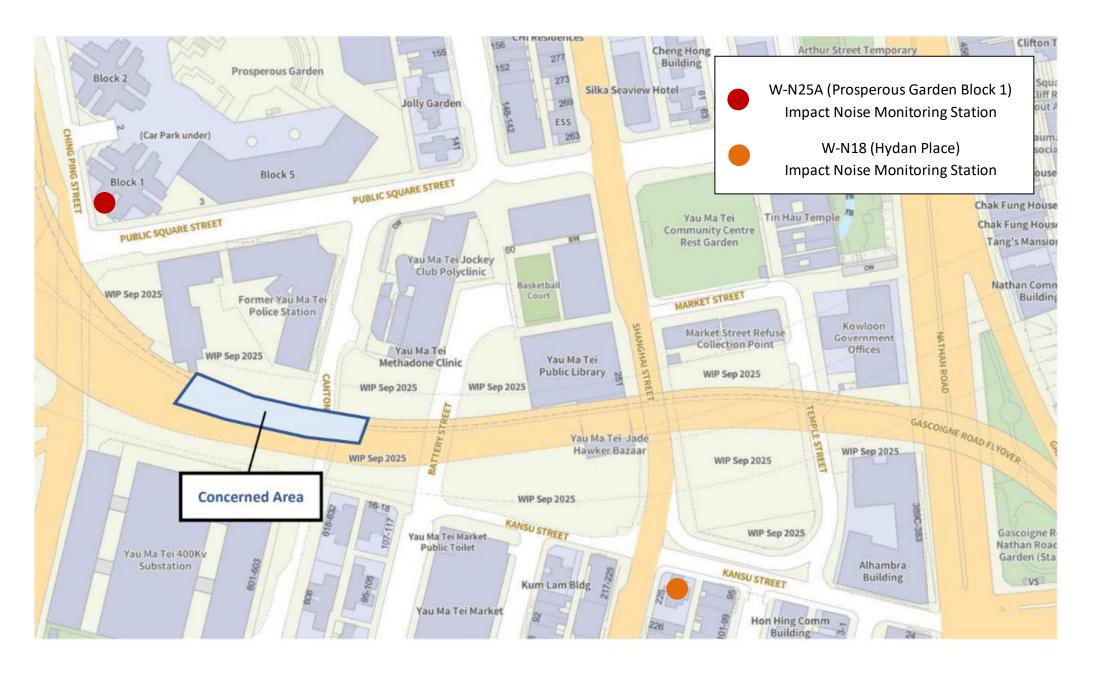


Interim Report on Environmental Complaint

Project	Central Kowloon Route, Yau Ma Tei East Section			
Complaint Code	EC182-CKRYMTE20251022_001			
Complaint description	The complaint case made on 22 October 2025 was referred to the Contractor and Environmental Team (ET) by the Environmental Protection Department on 22 October 2025, about the construction noise from the site area near Gascoigne Road Flyover during daytime at around 7:30 AM and from 8:00 AM on 22 October 2025.			
Parameter	Construction Noise			
Investigation finding	The complaint concerned the construction noise the complainant received at around 7:30 and from 8:00 AM from the site area near Gascoigne Road Flyover ^[1] .			
	According to the site records, the major construction work carried out at the area of concern during the specified period involved exposing rebar for edge parapet construction at the Gascoigne Road Flyover. The work was conducted at the Gascoigne Road Flyover within the permitted hours (i.e. 07:00-19:00 on normal weekdays) under the stipulated Noise Control Ordinance (NCO) requirement. The Powered Mechanical Equipment (PME) used for the construction works at the concerned area during that time included 2 excavators, and the operation of only one excavator mounted breaker was arranged at the same time.			
	As per the request from Old Yau Ma Tei Police Station, temporary noise barriers were not allowed to be erected at the concerned site area due to public security concerns. As confirmed by the contractor, proper noise mitigation measures were implemented by the contractor with reference to the approved Environmental Monitoring & Audit (EM&A) manual and the recommendations outlined in the Environmental Impact Assessment (EIA) Report, including: - Arranging to use the noisy PMEs intermittently; - Scheduling noisy works to be conducted individually whenever possible; - Switching off idling machines and plants on site to minimize noise generation; and - Arranging to complete the work as quickly as possible to minimize nuisance to the public			
	Regular noise impact monitoring was conducted on 20 October 2025. No exceedance of the limit level in noise impact monitoring [2] was recorded on the monitoring date at the two nearest noise monitoring stations (i.e. W-N25A (Prosperous Garden Block 1) and W-N18 (Hydan Place)) ^[1] . According to the weekly site inspection record on 16 October 2025, no non-compliance in the aspect of construction noise was observed, which proper site practices and measures were implemented on site.			
	Upon consideration of the fulfillment of stipulated requirements by the Contractor in accordance with the EM&A manual, it is concluded that there was no non-compliance of the Project regarding noise quality impact from the construction site.			

Actions taken / to be taken	 The Contractor has adhered to the requirements stipulated in the EM&A manual and as suggested in the EIA report. Additional measures have been implemented to minimize nuisance to the public: Providing regular maintenance for PME by the Contractor to prevent abnormal noise from malfunctioning mechanical components Carrying out regular site inspection to ensure that all PMEs are well maintained and functioning properly to avoid excessive noise generation Providing induction/ refresher training and toolbox talks on proper implementation of construction noise control measures, including performing pre-work checking for the PME to be used and ensuring the proper utilization of the silencers or mufflers on construction equipment. 				
Remarks (Shown in next pages)	 Layout of the concerned site area and the locations of the two nearest noise monitoring stations Result of noise impact monitoring on 20 October 2025 				
Prepared by ET (Acuity Sustainability Consulting Limited)	Natalie Wong	Notalie			
Reviewed by ETL (Acuity Sustainability Consulting Limited)	Kevin Li	K			
Verified by IEC (ERM-Hong Kong, Limited)	Mandy To	Mandy 2.			
Date	30 Octobe	er 2025			

Remark 1: Layout of the concerned site area and the locations of the two nearest noise monitoring stations



Remark 2: Result of noise impact monitoring on 20 October 2025

Date	Monitoring Station		Weather	Start Time	-	End Time	L _{eq (dB)}	Limit Level (dB)
20/10/2025	W-N25A	Prosperous Garden Block 1	Cloudy	14:51	-	15:21	73.4	75
20/10/2025	W-N18	Hydan Place	Cloudy	14:06	-	14:36	69.5	75