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港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Contract No. HY/2011/03

Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

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Revision 1

Main Contractor

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Designer

ATKINS

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Executive Summary

The Hong Kong-Zhuhai-Macao Bridge (HZMB) Hong Kong Link Road (HKLR) serves to connect the HZMB Main Bridge at the Hong Kong Special Administrative Region (HKSAR) Boundary and the HZMB Hong Kong Boundary Crossing Facilities (HKBCF) located at the north eastern waters of the Hong Kong International Airport (HKIA).

The HKLR project has been separated into two contracts. They are Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between Scenic Hill and Hong Kong Boundary Crossing Facilities (hereafter referred to as the Contract) and Contract No. HY/2011/09 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between HKSAR Boundary and Scenic Hill.

China State Construction Engineering (Hong Kong) Ltd. was awarded by Highways Department as the Contractor to undertake the construction works of Contract No. HY/2011/03. The main works of the Contract include land tunnel at Scenic Hill, tunnel underneath Airport Road and Airport Express Line, reclamation and tunnel to the east coast of the Airport Island, at-grade road connecting to the HKBCF and highway works of the HKBCF within the Airport Island and in the vicinity of the HKLR reclamation. The Contract is part of the HKLR Project and HKBCF Project, these projects are considered to be "Designated Projects", under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap 499) and Environmental Impact Assessment (EIA) Reports (Register No. AEIAR-144/2009 and AEIAR-145/2009) were prepared for the Project. The current Environmental Permit (EP) EP-352/2009/D for HKLR and EP-353/2009/K for HKBCF were issued on 22 December 2014 and 11 April 2016, respectively. These documents are available through the EIA Ordinance Register. The construction phase of Contract was commenced on 17 October 2012.

BMT Asia Pacific Limited has been appointed by the Contractor to implement the Environmental Monitoring & Audit (EM&A) programme for the Contract in accordance with the Updated EM&A Manual for HKLR (Version 1.0) and will be providing environmental team services to the Contract.

This is the fifty-eighth Monthly EM&A report for the Contract which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 31 July 2017.

Environmental Monitoring and Audit Progress

The monthly EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKLR (Version 1.0). A summary of the monitoring activities during this reporting month is listed below:

1-hr TSP Monitoring	3, 7, 13, 19, 25 and 31 July 2017
24-hr TSP Monitoring	4, 6, 12, 18, 24, 26 and 28 July 2017
Noise Monitoring	3, 13, 19, 25 and 31 July 2017
Chinese White Dolphin Monitoring	20, 24, 27 and 28 July 2017
Site Inspection	5, 13, 19 and 28 July 2017

Due to boat availability, the dolphin monitoring schedule was rescheduled from 21 July 2017 to 20 July 2017, and from 26 July 2017 to 27 July 2017.

Due to motor failure of high volume sampler, the 24-hour TSP monitoring at Station AMS5 (Ma Wan Chung Village) was rescheduled from 24 July 2017 to 26 July 2017.

The monitoring schedule of water quality monitoring for all stations except station CS2 were adopted from the published Monthly Environmental Monitoring and Audit (EM&A) Report for July 2017 prepared for Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works. The monitoring schedule of water quality monitoring for station CS2 was adopted from the published Monthly EM&A Report for July 2017 prepared by Contract No. HY/2011/09 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between HKSAR Boundary and Scenic Hill.

Breaches of Action and Limit Levels

A summary of environmental exceedances for this reporting month is as follows:

Environmental Monitoring	Parameters	Action Level (AL)	Limit Level (LL)
Air Quality	1-hr TSP	0	0
	24-hr TSP	0	0
Noise	$L_{eq\ (30\ min)}$	0	0
Water Quality	Suspended solids level (SS)	2	0
	Turbidity level	0	0
	Dissolved oxygen level (DO)	0	0

Complaint Log

There were no complaints received in relation to the environmental impacts during the reporting period.

Notifications of Summons and Prosecutions

There were no notifications of summons or prosecutions received during this reporting month.

Reporting Changes

This report has been developed in compliance with the reporting requirements for the subsequent EM&A reports as required by the Updated EM&A Manual for HKLR (Version 1.0).

The proposal for the change of Action Level and Limit Level for suspended solid and turbidity was approved by EPD on 25 March 2013.

The revised Event and Action Plan for dolphin monitoring was approved by EPD on 6 May 2013.

The original monitoring station at IS(Mf)9 (Coordinate: 813273E, 818850N) was observed inside the perimeter silt curtain of Contract HY/2010/02 on 1 July 2013, as such the original impact water quality monitoring location at IS(Mf)9 was temporarily shifted outside the silt curtain. As advised by the Contractor of HY/2010/02 in August 2013, the perimeter silt curtain was shifted to facilitate safe anchorage zone of construction barges/vessels until end of 2013 subject to construction progress. Therefore, water quality monitoring station IS(Mf)9 was shifted to 813226E and 818708N since 1 July 2013. According to the water quality monitoring team's observation on 24 March 2014, the original monitoring location of IS(Mf)9 was no longer enclosed by the perimeter silt curtain of Contract HY/2010/02. Thus, the impact water quality monitoring works at the original monitoring location of IS(Mf)9 has been resumed since 24 March 2014.

Transect lines 1, 2, 7, 8, 9 and 11 for dolphin monitoring have been revised due to the obstruction of the permanent structures associated with the construction works of HKLR and the southern viaduct of TM-CLKL, as well as provision of adequate buffer distance from the Airport Restricted Areas. The EPD issued a memo and confirmed that they had no objection on the revised transect lines on 19 August 2015.

Technical issues were observed from impact monitoring of the Contract and thus published information from Monthly EM&A Report for June and July 2017 prepared for Contract No. HY/2010/02 and Contract No. HY/2011/09 were adopted for the Contract.

Future Key Issues

The future key issues include potential noise, air quality, water quality and ecological impacts and waste management arising from the following construction activities to be undertaken in the upcoming month:

- Stockpiling at WA7;
- Removal of toe loading at Portion X;
- Dismantling/trimming of Temporary 40mm Stone Platform for Construction of Seawall at Portion X;
- Construction of Seawall at Portion X;
- Loading and Unloading Filling Materials at Portion X;

- Backfilling at Scenic Hill Tunnel (Cut & Cover Tunnel) at Portion X;
- Excavation for HKBCF to Airport Tunnel & Construction of Tunnel Box Structure at Portion X;
- Excavation for Diversion of Culvert PR14 at Portion X;
- Works for Diversion of Airport Road;
- Utilities Detection at Airport Road / Airport Express Line/ East Coast Road;
- Establishment of Site Access at Airport Road / Airport Express Line/East Coast Road;
- Construction of Tunnel Box Structure at Shaft 3 Extension North Shaft;
- Excavation and Lateral Support Works & Construction of Tunnel Box Structure for HKBCF to Airport Tunnel West (Cut & Cover Tunnel) at Airport Road;
- Excavation and Lateral Support Works & Construction of Tunnel Box Structure for HKBCF to Airport Tunnel East (Cut & Cover Tunnel) at Portion X;
- Sub-structure, Superstructure & Finishing Works for Highway Operation and Maintenance Area Building at Portion X; and
- Superstructure & Finishing Works for Scenic Hill Tunnel West Portal Ventilation building at West Portal.

1 Introduction

1.1 Basic Project Information

1.1.1 The Hong Kong-Zhuhai-Macao Bridge (HZMB) Hong Kong Link Road (HKLR) serves to connect the HZMB Main Bridge at the Hong Kong Special Administrative Region (HKSAR) Boundary and the HZMB Hong Kong Boundary Crossing Facilities (HKBCF) located at the north eastern waters of the Hong Kong International Airport (HKIA).

1.1.2 The HKLR project has been separated into two contracts. They are Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between Scenic Hill and Hong Kong Boundary Crossing Facilities (hereafter referred to as the Contract) and Contract No. HY/2011/09 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between HKSAR Boundary and Scenic Hill.

1.1.3 China State Construction Engineering (Hong Kong) Ltd. was awarded by Highways Department (HyD) as the Contractor to undertake the construction works of Contract No. HY/2011/03. The Contract is part of the HKLR Project and HKBCF Project, these projects are considered to be "Designated Projects", under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap 499) and Environmental Impact Assessment (EIA) Reports (Register No. AEIAR-144/2009 and AEIAR-145/2009) were prepared for the Project. The current Environmental Permit (EP) EP-352/2009/D for HKLR and EP-353/2009/K for HKBCF were issued on 22 December 2014 and 11 April 2016, respectively. These documents are available through the EIA Ordinance Register. The construction phase of Contract was commenced on 17 October 2012. **Figure 1.1** shows the project site boundary. The works areas are shown in **Appendix N**.

1.1.4 The Contract includes the following key aspects:

- New reclamation along the east coast of the approximately 23 hectares.
- Tunnel of Scenic Hill (Tunnel SHT) from Scenic Hill to the new reclamation, of approximately 1km in length with three (3) lanes for the east bound carriageway heading to the HKBCF and four (4) lanes for the westbound carriageway heading to the HZMB Main Bridge.
- An abutment of the viaduct portion of the HKLR at the west portal of Tunnel SHT and associated road works at the west portal of Tunnel SHT.
- An at grade road on the new reclamation along the east coast of the HKIA to connect with the HKBCF, of approximately 1.6 km along dual 3-lane carriageway with hard shoulder for each bound.
- Road links between the HKBCF and the HKIA including new roads and the modification of existing roads at the HKIA, involving viaducts, at grade roads and a Tunnel HAT.
- A highway operation and maintenance area (HMA) located on the new reclamation, south of the Dragonair Headquarters Building, including the construction of buildings, connection roads and other associated facilities.
- Associated civil, structural, building, geotechnical, marine, environmental protection, landscaping, drainage and sewerage, tunnel and highway electrical and mechanical works, together with the installation of street lightings, traffic aids and sign gantries, water mains and fire hydrants, provision of facilities for installation of traffic control and surveillance system (TCSS), reprovisioning works of affected existing facilities, implementation of transplanting, compensatory planting and protection of existing trees, and implementation of an environmental monitoring and audit (EM&A) program.

1.1.5 This is the fifty-eighth Monthly EM&A report for the Contract which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 31 July 2017.

1.1.6 BMT Asia Pacific Limited has been appointed by the Contractor to implement the EM&A programme for the Contract in accordance with the Updated EM&A Manual for HKLR (Version

1.0) for HKLR and will be providing environmental team services to the Contract. Ramboll Environ Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) for the Project. The project organization with regard to the environmental works is as follows.

1.2 Project Organisation

1.2.1 The project organization structure and lines of communication with respect to the on-site environmental management structure is shown in **Appendix A**. The key personnel contact names and numbers are summarized in **Table 1.1**.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Supervising Officer's Representative (Ove Arup & Partners Hong Kong Limited)	(Chief Resident Engineer, CRE)	Robert Antony Evans	3968 0801	2109 1882
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899
	Independent Environmental Checker	Antony Wong	3465 2888	3465 2899
Contractor (China State Construction Engineering (Hong Kong) Ltd)	Project Manager	S. Y. Tse	3968 7002	2109 2588
	Environmental Officer	Federick Wong	3968 7117	2109 2588
Environmental Team (BMT Asia Pacific)	Environmental Team Leader	Claudine Lee	2241 9847	2815 3377
24 hours complaint hotline	---	---	5699 5730	---

1.3 Construction Programme

1.3.1 A copy of the Contractor's construction programme is provided in **Appendix B**.

1.4 Construction Works Undertaken During the Reporting Month

1.4.1 A summary of the construction activities undertaken during this reporting month is shown in **Table 1.2.**

Table 1.2 Construction Activities During Reporting Month

Description of Activities	Site Area
Stockpiling	WA7
Dismantling/trimming of temporary 40mm stone platform for construction of seawall	Portion X
Construction of seawall	Portion X
Loading and unloading of filling materials	Portion X
Backfilling at Scenic Hill Tunnel (Cut & Cover Tunnel)	Portion X
Excavation for HKBCF to Airport Tunnel & construction of tunnel box structure	Portion X
Excavation for diversion of culvert PR14	Portion X
Works for diversion	Airport Road
Utilities detection	Airport Road/ Airport Express Line/ East Coast Road
Establishment of site access	Airport Road/ Airport Express Line/ East Coast Road
Mined tunnel lining / box jacking transition zone rebar fixing underneath Airport Road and Airport Express Line	Airport Road and Airport Express Line
Construction of Tunnel box structure	Shaft 3 Extension North Shaft
Excavation and lateral support works & Construction of Tunnel Box Structure for HKBCF to Airport Tunnel West (Cut & Cover Tunnel)	Airport Road
Excavation and lateral support works & construction of tunnel box structure for HKBCF to Airport Tunnel East (Cut & Cover Tunnel)	Portion X
Sub-structure, superstructure and finishing works for Highway Operation and Maintenance Area Building	Portion X
Superstructure & finishing works for Scenic Hill Tunnel West Portal Ventilation building	West Portal

2 Air Quality Monitoring

2.1 Monitoring Requirements

2.1.1 In accordance with the Contract Specific EM&A Manual, baseline 1-hour and 24-hour TSP levels at two air quality monitoring stations were established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days. The Action and Limit Level for 1-hr TSP and 24-hr TSP are provided in **Table 2.1** and **Table 2.2**, respectively.

Table 2.1 Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level, μg/m^3	Limit Level, μg/m^3
AMS 5 – Ma Wan Chung Village (Tung Chung)	352	500
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	360	

Table 2.2 Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level, μg/m^3	Limit Level, μg/m^3
AMS 5 – Ma Wan Chung Village (Tung Chung)	164	260
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	173	260

2.2 Monitoring Equipment

2.2.1 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at each designated monitoring station. The HVS meets all the requirements of the Contract Specific EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in **Table 2.3**.

Table 2.3 Air Quality Monitoring Equipment

Equipment	Brand and Model
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3B)
High Volume Sampler (24-hour TSP)	Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Air Sampler (Model No. TE-5170)

2.3 Monitoring Locations

2.3.1 Monitoring locations AMS5 and AMS6 were set up at the proposed locations in accordance with Contract Specific EM&A Manual.

2.3.2 **Figure 2.1** shows the locations of monitoring stations. **Table 2.4** describes the details of the monitoring stations.

Table 2.4 Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location
AMS5	Ma Wan Chung Village (Tung Chung)
AMS6	Dragonair / CNAC (Group) Building (HKIA)

2.4 Monitoring Parameters, Frequency and Duration

2.4.1 **Table 2.5** summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

Table 2.5 Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
1-hour TSP	Three times every 6 days while the highest dust impact was expected
24-hour TSP	Once every 6 days

2.5 Monitoring Methodology

2.5.1 24-hour TSP Monitoring

(a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.

(i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.

(ii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.

(iii) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler was provided.

(iv) No furnace or incinerator flues are nearby.

(v) Airflow around the sampler was unrestricted.

(vi) Permission was obtained to set up the samplers and access to the monitoring stations.

(vii) A secured supply of electricity was obtained to operate the samplers.

(viii) The sampler was located more than 20 meters from any dripline.

(ix) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.

(x) Flow control accuracy was kept within ±2.5% deviation over 24-hour sampling period.

(b) Preparation of Filter Papers

(i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.

(ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.

(iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.

(c) Field Monitoring

(i) The power supply was checked to ensure the HVS works properly.

(ii) The filter holder and the area surrounding the filter were cleaned.

(iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.

(iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.

(v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.

(vi) Then the shelter lid was closed and was secured with the aluminium strip.

(vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.

(viii) A new flow rate record sheet was set into the flow recorder.

(ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m^3/min, and complied with the range specified in the Updated EM&A Manual for HKLR (Version 1.0) (i.e. 0.6-1.7 m^3/min).

(x) The programmable digital timer was set for a sampling period of 24 hours, and the starting time, weather condition and the filter number were recorded.

(xi) The initial elapsed time was recorded.

(xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.

(xiii) The final elapsed time was recorded.

(xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.

(xv) It was then placed in a clean plastic envelope and sealed.

(xvi) All monitoring information was recorded on a standard data sheet.

(xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.

(d) Maintenance and Calibration

(i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.

(ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.

(iii) Calibration certificate of the HVSs are provided in **Appendix C**.

2.5.2 1-hour TSP Monitoring

(a) Measuring Procedures

The measuring procedures of the 1-hour dust meter were in accordance with the Manufacturer's Instruction Manual as follows:-

(i) Turn the power on.

(ii) Close the air collecting opening cover.

(iii) Push the "TIME SETTING" switch to [BG].

(iv) Push "START/STOP" switch to perform background measurement for 6 seconds.

(v) Turn the knob at SENSI ADJ position to insert the light scattering plate.

(vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.

(vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.

(viii) Pull out the knob and return it to MEASURE position.

(ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.

(x) Lower down the air collection opening cover.

(xi) Push "START/STOP" switch to start measurement.

(b) Maintenance and Calibration

(i) The 1-hour TSP meter was calibrated at 1-year intervals against a Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Air Sampler. Calibration certificates of the Laser Dust Monitors are provided in **Appendix C**.

2.6 Monitoring Schedule for the Reporting Month

2.6.1 The schedule for air quality monitoring in July 2017 is provided in **Appendix D**.

2.7 Monitoring Results

2.7.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in **Tables 2.6** and **2.7** respectively. Detailed impact air quality monitoring results and relevant graphical plots are presented in **Appendix E**.

Table 2.6 Summary of 1-hour TSP Monitoring Results During the Reporting Month

Monitoring Station	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AMS5	23	3 – 97	352	500
AMS6	22	2 – 93	360	500

Table 2.7 Summary of 24-hour TSP Monitoring Results During the Reporting Month

Monitoring Station	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AMS5	44	28 – 54	164	260
AMS6	48	23 – 118	173	260

2.7.2 There were no Action and Limit Level exceedances of 1-hr TSP and 24-hr TSP were recorded at AMS5 and AMS6 during the reporting month.

2.7.3 The event action plan is annexed in **Appendix F**.

2.7.4 The wind data obtained from the on-site weather station during the reporting month is shown in **Appendix G**.

3 Noise Monitoring

3.1 Monitoring Requirements

3.1.1 In accordance with the Contract Specific EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Project. The Action and Limit level of the noise monitoring is provided in **Table 3.1**.

Table 3.1 Action and Limit Levels for Noise during Construction Period

Monitoring Station	Time Period	Action Level	Limit Level
NMS5 – Ma Wan Chung Village (Ma Wan Chung Resident Association) (Tung Chung)	0700-1900 hours on normal weekdays	When one documented complaint is received	75 dB(A)

3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meters at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment are given in **Table 3.2**.

Table 3.2 Noise Monitoring Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	B&K 2238
Acoustic Calibrator	B&K 4231

3.3 Monitoring Locations

3.3.1 Monitoring location NMS5 was set up at the proposed locations in accordance with Contract Specific EM&A Manual.

3.3.2 **Figure 2.1** shows the locations of monitoring stations. **Table 3.3** describes the details of the monitoring stations.

Table 3.3 Locations of Impact Noise Monitoring Stations

Monitoring Station	Location
NMS5	Ma Wan Chung Village (Ma Wan Chung Resident Association) (Tung Chung)

3.4 Monitoring Parameters, Frequency and Duration

3.4.1 **Table 3.4** summarizes the monitoring parameters, frequency and duration of impact noise monitoring.

Table 3.4 Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L_{eq}, L_{10} and L_{90} would be recorded.	At least once per week

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

(a) The sound level meter was set on a tripod at a height of 1.2 m above the podium for free-field measurements at NMS5. A correction of +3 dB(A) shall be made to the free field measurements.

(b) The battery condition was checked to ensure the correct functioning of the meter.

(c) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:-

(i) frequency weighting: A

(ii) time weighting: Fast

(iii) time measurement: $L_{eq(30\text{-}minutes)}$ during non-restricted hours i.e. 07:00 – 1900 on normal weekdays

(d) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94.0 dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.

(e) During the monitoring period, the L_{eq}, L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.

(f) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.

(g) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

3.5.2 Maintenance and Calibration

(a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.

(b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.

(c) Calibration certificates of the sound level meters and acoustic calibrators are provided in **Appendix C**.

3.6 Monitoring Schedule for the Reporting Month

3.6.1 The schedule for construction noise monitoring in July 2017 is provided in **Appendix D**.

3.7 Monitoring Results

3.7.1 The monitoring results for construction noise are summarized in **Table 3.5** and the monitoring results and relevant graphical plots are provided in **Appendix E.**

Table 3.5 Summary of Construction Noise Monitoring Results During the Reporting Month

Monitoring Station	Average $L_{eq\ (30\ mins)}$, dB(A)	Range of $L_{eq\ (30\ mins)}$, dB(A)	Limit Level $L_{eq\ (30\ mins)}$, dB(A)
NMS5	58	57 – 60	75

*A correction factor of +3dB(A) from free field to facade measurement was included.

3.7.2 There were no Action and Limit Level exceedance for noise during daytime on normal weekdays of the reporting month.

3.7.3 Major noise sources during the noise monitoring included construction activities of the Contract and nearby traffic.

3.7.4 The event action plan is annexed in **Appendix F.**

4 Water Quality Monitoring

4.1 Monitoring Requirements

4.1.1 Impact water quality monitoring was carried out to ensure that any deterioration of water quality is detected, and that timely action is taken to rectify the situation. For impact water quality monitoring, measurements were taken in accordance with the Contract Specific EM&A Manual. **Table 4.1** shows the established Action/Limit Levels for the environmental monitoring works. The ET proposed to amend the Acton Level and Limit Level for turbidity and suspended solid and EPD approved ET's proposal on 25 March 2013. Therefore, Action Level and Limit Level for the Contract have been changed since 25 March 2013.

4.1.2 The original and revised Action Level and Limit Level for turbidity and suspended solid are shown in **Table 4.1**.

Table 4.1 Action and Limit Levels for Water Quality

Parameter (unit)	Water Depth	Action Level	Limit Level
Dissolved Oxygen (mg/L) (surface, middle and bottom)	Surface and Middle	5.0	4.2 except 5 for Fish Culture Zone
	Bottom	4.7	3.6
Turbidity (NTU)	Depth average	27.5 or 120% of upstream control station's turbidity at the same tide of the same day; The action level has been amended to "27.5 ***and*** 120% of upstream control station's turbidity at the same tide of the same day" since 25 March 2013.	47.0 or 130% of turbidity at the upstream control station at the same tide of same day; The limit level has been amended to "47.0 ***and*** 130% of turbidity at the upstream control station at the same tide of same day" since 25 March 2013.
Suspended Solid (SS) (mg/L)	Depth average	23.5 or 120% of upstream control station's SS at the same tide of the same day; The action level has been amended to "23.5 ***and*** 120% of upstream control station's SS at the same tide of the same day" since 25 March 2013.	34.4 or 130% of SS at the upstream control station at the same tide of same day and 10mg/L for Water Services Department Seawater Intakes; The limit level has been amended to "34.4 ***and*** 130% of SS at the upstream control station at the same tide of same day and 10mg/L for Water Services Department Seawater Intakes" since 25 March 2013

Notes:
(1) Depth-averaged is calculated by taking the arithmetic means of reading of all three depths.
(2) For DO, non-compliance of the water quality limit occurs when monitoring result is lower that the limit.
(3) For SS & turbidity non-compliance of the water quality limits occur when monitoring result is higher than the limits.
(4) The change to the Action and limit Levels for Water Quality Monitoring for the EM&A works was approved by EPD on 25 March 2013.

4.2 Monitoring Equipment

4.2.1 The monitoring equipment used in the impact water quality monitoring programme are detailed in the Monthly EM&A Report for July 2017 prepared for Contract No. HY/2010/02 and Contract No. HY/2011/09.

4.3 Monitoring Parameters, Frequency and Duration

4.3.1 **Table 4.3** summarizes the monitoring parameters, frequency and monitoring depths of impact water quality monitoring as required in the Contract Specific EM&A Manual.

Table 4.3 Impact Water Quality Monitoring Parameters and Frequency

Monitoring Stations	Parameter, unit	Frequency	No. of depth
Impact Stations: IS5, IS(Mf)6, IS7, IS8, IS(Mf)9 & IS10, Control/Far Field Stations: CS2 & CS(Mf)5, Sensitive Receiver Stations: SR3, SR4, SR5, SR10A & SR10B	• Depth, m • Temperature, °C • Salinity, ppt • Dissolved Oxygen (DO), mg/L • DO Saturation, % • Turbidity, NTU • pH • Suspended Solids (SS), mg/L	Three times per week during mid-ebb and mid-flood tides (within ± 1.75 hour of the predicted time)	3 (1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth is less than 6 m, in which case the mid-depth station may be omitted. Should the water depth be less than 3 m, only the mid-depth station will be monitored).

4.4 Monitoring Locations

4.4.1 In accordance with the Contract Specific EM&A Manual, thirteen stations (6 Impact Stations, 5 Sensitive Receiver Stations and 2 Control Stations) were designated for impact water quality monitoring. The six Impact Stations (IS) were chosen on the basis of their proximity to the reclamation and thus the greatest potential for water quality impacts, the five Sensitive Receiver Stations (SR) were chosen as they are close to the key sensitive receives and the two Control Stations (CS) were chosen to facilitate comparison of the water quality of the IS stations with less influence by the Project/ ambient water quality conditions.

4.4.2 Technical issues were observed from impact monitoring of the Contract and thus published information from Monthly EM&A Report for July 2017 prepared for Contract No. HY/2010/02 and Contract No. HY/2011/09 were adopted for the Contract.

4.4.3 The topographical condition of two monitoring stations (SR4 and SR10B) cannot be accessed safely for undertaking water quality monitoring. Water quality monitoring was temporarily conducted at alternative stations, namely SR4(N) (Coordinate: 814705E, 817859N) and SR10B(N) (Coordinate: 823683E, 823187N) for Contract No. HY/2010/02.

4.4.4 Due to marine work of the Expansion of Hong Kong International Airport into a Three-Runway System (3RS Project), original locations of water quality monitoring stations SR5 and IS10 are enclosed by works boundary of 3RS Project. Alternative impact water quality monitoring stations, naming as SR5(N) (Coordinate: 812569E, 821475N) and IS10(N) (Coordinate: 812942E, 820881N) was approved in 12 May 2017 and were adopted starting from 15 May 2017 to replace the original locations of water quality monitoring for Contract No. HY/2010/02.

4.4.5 The Proposal for Change of Marine Water Quality Monitoring Station was submitted to EPD on 12 July 2017 by Contract No. HY/2011/09. Alternative impact water quality monitoring stations, naming as CS2(A) (Coordinate: 805232E, 818606N) was approved on 28 July 2017 and were

adopted starting from 31 July 2017 to replace the original location of water quality monitoring station CS2 for Contract No. HY/2011/09.

4.4.6 The locations of these monitoring stations are summarized in **Table 4.4** and shown in **Figure 2.1**.

Table 4.4 Impact Water Quality Monitoring Stations

Monitoring Stations	Description	Coordinates	
		Easting	Northing
IS5	Impact Station (Close to HKLR construction site)	811579	817106
IS(Mf)6	Impact Station (Close to HKLR construction site)	812101	817873
IS7	Impact Station (Close to HKBCF construction site)	812244	818777
IS8	Impact Station (Close to HKBCF construction site)	814251	818412
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850
IS10	Impact Station (Close to HKBCF construction site)	812577	820670
SR3	Sensitive Receivers (San Tau SSSI)	810525	816456
SR4	Sensitive Receivers (Tai Ho Inlet)	814760	817867
SR5	Sensitive Receivers (Artificial Reef in NE Airport)	811489	820455
SR10A	Sensitive Receivers (Ma Wan Fish Culture Zone)	823741	823495
SR10B	Sensitive Receivers (Ma Wan Fish Culture Zone)	823686	823213
CS2	Control Station (Mid-Ebb)	805849	818780
CS(Mf)5	Control Station (Mid-Flood)	817990	821129

Remarks:

1) Technical issues were observed from impact monitoring of the Contract and thus published information from Monthly EM&A Report for July 2017 prepared for Contract No. HY/2010/02 and Contract No. HY/2011/09 were adopted for the Contract.

2) The topographical condition of two monitoring stations (SR4 and SR10B) cannot be accessed safely for undertaking water quality monitoring. Water quality monitoring was temporarily conducted at alternative stations, namely SR4(N) (Coordinate: 814705E, 817859N) and SR10B(N) (Coordinate: 823683E, 823187N) for Contract No. HY/2010/02.

3) Due to marine work of the Expansion of Hong Kong International Airport into a Three-Runway System (3RS Project), original locations of water quality monitoring stations SR5 and IS10 are enclosed by works boundary of 3RS Project. Alternative impact water quality monitoring stations, naming as SR5(N) (Coordinate: 812569E, 821475N) and IS10(N) (Coordinate: 812942E, 820881N) was approved in 12 May 2017 and were adopted starting from 15 May 2017 to replace the original locations of water quality monitoring for Contract No. HY/2010/02.

4) The Proposal for Change of Marine Water Quality Monitoring Station was submitted to EPD on 12 July 2017 by Contract No. HY/2011/09. Alternative impact water quality monitoring stations, naming as CS2(A) (Coordinate: 805232E, 818606N) was approved on 28 July 2017 and were adopted starting from 31 July 2017 to replace the original location of water quality monitoring station CS2 for Contract No. HY/2011/09.

4.5 Monitoring Methodology

4.5.1 The monitoring methodology is detailed in the Monthly EM&A Report for July 2017 prepared for Contract No. HY/2010/02 and Contract No. HY/2011/09.

4.6 Monitoring Schedule for the Reporting Month

4.6.1 The monitoring schedule for impact water quality monitoring in July 2017 is detailed in the Monthly EM&A Report prepared for Contract No. HY/2010/02 and Contract No. HY/2011/09.

4.7 Monitoring Results

4.7.1 The monitoring results of water quality monitoring for all stations except station CS2 were adopted from the published Monthly EM&A Report for Contract No. HY/2010/02.

4.7.2 The monitoring results of water quality monitoring for station CS2 was adopted from the published Monthly EM&A Report Contract No. HY/2011/09.

4.7.3 For marine water quality monitoring, no Limit Level exceedances of dissolved oxygen, turbidity and suspended solid levels were recorded by the ET of Contract No. HY/2010/02 and Contract No. HY/2011/09 during the reporting month. There was no Action Level exceedances of dissolved oxygen and turbidity levels were recorded by the ET of Contract No. HY/2010/02 and Contract No. HY/2011/09 during the reporting month. There were two Action Level exceedances of suspended solid levels were recorded by the ET of Contract No. HY/2010/02 during the reporting month.

4.7.4 On 12 July 2017, an Action Level exceedance of suspended solid was recorded at station SR3 during mid-ebb tide. On 14 July 2017, an Action Level exceedance of suspended solid was recorded at station IS7 during mid-flood tide. Removal of surcharge, road and drainage construction at Zones 1 and 2; seawall construction at Zones 2 and 3; box culvert construction at Zone 2; and transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report. There was no marine transportation at Zones 1, 2, and 3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. Also, there was no muddy plume observed at station IS7 during sampling exercise. No leakage of turbid water or any abnormity or malpractice for all contract works was observed during the sampling exercise.

4.7.5 The exceedances of suspended solids level recorded during reporting period were considered to be attributed to other external factors such as sea condition, rather than the contract works. Therefore, the exceedances were considered as non-contract related. Records of “Notification of Environmental Quality Limit Exceedances” are provided in **Appendix N**.

4.7.6 The event action plan is annexed in **Appendix F**.

5 Dolphin Monitoring

5.1 Monitoring Requirements

5.1.1 Impact dolphin monitoring is required to be conducted by a qualified dolphin specialist team to evaluate whether there have been any effects on the dolphins.

5.1.2 The Action Level and Limit Level for dolphin monitoring are shown in **Table 5.1**.

Table 5.1 Action and Limit Levels for Dolphin Monitoring

	North Lantau Social Cluster	
	NEL	**NWL**
Action Level	STG < 4.2 & ANI < 15.5	STG < 6.9 & ANI < 31.3
Limit Level	(STG < 2.4 & ANI < 8.9) and (STG < 3.9 & ANI < 17.9)	

Remarks:

1. STG means quarterly encounter rate of number of dolphin sightings.
2. ANI means quarterly encounter rate of total number of dolphins.
3. For North Lantau Social Cluster, AL will be trigger if either NEL **or** NWL fall below the criteria; LL will be triggered if both NEL **and** NWL fall below the criteria.

5.1.3 The revised Event and Action Plan for dolphin Monitoring was approved by EPD in 6 May 2013. The revised Event and Action Plan is annexed in **Appendix F.**

5.2 Monitoring Methodology

Vessel-based Line-transect Survey

5.2.1 According to the requirements of the Updated EM&A Manual for HKLR (Version 1.0), dolphin monitoring programme should cover all transect lines in NEL and NWL survey areas (see **Figure 1 of Appendix H**) twice per month. The co-ordinates of all transect lines are shown in **Table 5.2**. The coordinates of several starting points have been revised due to the obstruction of the permanent structures associated with the construction works of HKLR and the southern viaduct of TM-CLKL, as well as provision of adequate buffer distance from the Airport Restricted Areas. The EPD issued a memo and confirmed that they had no objection on the revised transect lines on 19 August 2015, and the revised coordinates are in red and marked with an asterisk in **Table 5.2**.

Table 5.2 Co-ordinates of Transect Lines

Line No.		Easting	Northing		Line No.		Easting	Northing
1	Start Point	804671	815456*		13	Start Point	816506	819480
1	End Point	804671	831404		13	End Point	816506	824859
2	Start Point	805475	815913*		14	Start Point	817537	820220
2	End Point	805477	826654		14	End Point	817537	824613
3	Start Point	806464	819435		15	Start Point	818568	820735
3	End Point	806464	822911		15	End Point	818568	824433
4	Start Point	807518	819771		16	Start Point	819532	821420
4	End Point	807518	829230		16	End Point	819532	824209
5	Start Point	808504	820220		17	Start Point	820451	822125

Line No.		Easting	Northing		Line No.		Easting	Northing
5	End Point	808504	828602		17	End Point	820451	823671
6	Start Point	809490	820466		18	Start Point	821504	822371
6	End Point	809490	825352		18	End Point	821504	823761
7	Start Point	810499	820880*		19	Start Point	822513	823268
7	End Point	810499	824613		19	End Point	822513	824321
8	Start Point	811508	821123*		20	Start Point	823477	823402
8	End Point	811508	824254		20	End Point	823477	824613
9	Start Point	812516	821303*		21	Start Point	805476	827081
9	End Point	812516	824254		21	End Point	805476	830562
10	Start Point	813525	820872		22	Start Point	806464	824033
10	End Point	813525	824657		22	End Point	806464	829598
11	Start Point	814556	818853*		23	Start Point	814559	821739
11	End Point	814556	820992		23	End Point	814559	824768
12	Start Point	815542	818807					
12	End Point	815542	824882					

Note:
Co-ordinates in red and marked with asterisk are revised co-ordinates of transect line.

5.2.2 The survey team used standard line-transect methods (Buckland et al. 2001) to conduct the systematic vessel surveys, and followed the same technique of data collection that has been adopted over the last 18 years of marine mammal monitoring surveys in Hong Kong developed by HKCRP (see Hung 2015). For each monitoring vessel survey, a 15-m inboard vessel with an open upper deck (about 4.5 m above water surface) was used to make observations from the flying bridge area.

5.2.3 Two experienced observers (a data recorder and a primary observer) made up the on-effort survey team, and the survey vessel transited different transect lines at a constant speed of 13-15 km per hour. The data recorder searched with unaided eyes and filled out the datasheets, while the primary observer searched for dolphins and porpoises continuously through 7 x 50 *Fujinon* marine binoculars. Both observers searched the sea ahead of the vessel, between 270° and 90° (in relation to the bow, which is defined as 0°). One to two additional experienced observers were available on the boat to work in shift (i.e. rotate every 30 minutes) in order to minimize fatigue of the survey team members. All observers were experienced in small cetacean survey techniques and identifying local cetacean species.

5.2.4 During on-effort survey periods, the survey team recorded effort data including time, position (latitude and longitude), weather conditions (Beaufort sea state and visibility), and distance traveled in each series (a continuous period of search effort) with the assistance of a handheld GPS (*Garmin eTrex Legend*).

5.2.5 Data including time, position and vessel speed were also automatically and continuously logged by handheld GPS throughout the entire survey for subsequent review.

5.2.6 When dolphins were sighted, the survey team would end the survey effort, and immediately record the initial sighting distance and angle of the dolphin group from the survey vessel, as well as the sighting time and position. Then the research vessel was diverted from its course to approach the animals for species identification, group size estimation, assessment of group composition, and behavioural observations. The perpendicular distance (PSD) of the dolphin group to the transect line was later calculated from the initial sighting distance and angle.

5.2.7 Survey effort being conducted along the parallel transect lines that were perpendicular to the coastlines (as indicated in **Figure 1 of Appendix H**) was labeled as "primary" survey effort, while the survey effort conducted along the connecting lines between parallel lines was labeled as "secondary" survey effort. According to HKCRP long-term dolphin monitoring data, encounter rates of Chinese white dolphins deduced from effort and sighting data collected along primary and secondary lines were similar in NEL and NWL survey areas. Therefore, both primary and secondary survey effort were presented as on-effort survey effort in this report.

5.2.8 Encounter rates of Chinese white dolphins (number of on-effort sightings per 100 km of survey effort and number of dolphins from all on-effort sightings per 100 km of survey effort) were calculated in NEL and NWL survey areas in relation to the amount of survey effort conducted during each month of monitoring survey. Only data collected under Beaufort 3 or below condition would be used for encounter rate analysis. Dolphin encounter rates were calculated using primary survey effort alone, as well as the combined survey effort from both primary and secondary lines.

Photo-identification Work

5.2.9 When a group of Chinese White Dolphins were sighted during the line-transect survey, the survey team would end effort and approach the group slowly from the side and behind to take photographs of them. Every attempt was made to photograph every dolphin in the group, and even photograph both sides of the dolphins, since the colouration and markings on both sides may not be symmetrical.

5.2.10 A professional digital camera (*Canon* EOS 7D or 60D model), equipped with long telephoto lenses (100-400 mm zoom), were available on board for researchers to take sharp, close-up photographs of dolphins as they surfaced. The images were shot at the highest available resolution and stored on Compact Flash memory cards for downloading onto a computer.

5.2.11 All digital images taken in the field were first examined, and those containing potentially identifiable individuals were sorted out. These photographs would then be examined in greater detail, and were carefully compared to the existing Chinese White Dolphin photo-identification catalogue maintained by HKCRP since 1995.

5.2.12 Chinese White Dolphins can be identified by their natural markings, such as nicks, cuts, scars and deformities on their dorsal fin and body, and their unique spotting patterns were also used as secondary identifying features (Jefferson 2000).

5.2.13 All photographs of each individual were then compiled and arranged in chronological order, with data including the date and location first identified (initial sighting), re-sightings, associated dolphins, distinctive features, and age classes entered into a computer database. Detailed information on all identified individuals will be further presented as an appendix in quarterly EM&A reports.

5.3 Monitoring Results

Vessel-based Line-transect Survey

5.3.1 During the month of July 2017, two sets of systematic line-transect vessel surveys were conducted on the 20th, 24th, 27th and 28th to cover all transect lines in NWL and NEL survey areas twice. The survey routes of each survey day are presented in **Figures 2 to 5 of Appendix H**.

5.3.2 From these surveys, a total of 265.21 km of survey effort was collected, with 99.4% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) (**Annex I of Appendix H**). Among the two areas, 96.30 km and 168.91 km of survey effort were collected from NEL and NWL survey areas respectively. Moreover, the total survey effort conducted on primary lines was 194.61 km, while the effort on secondary lines was 70.60 km.

5.3.3 During the two sets of monitoring surveys in July 2017, only two groups of 11 Chinese White Dolphins were sighted (see **Annex II of Appendix H**). Both dolphin sightings were made in NWL, while none was sighted in NEL.

5.3.4 For the surveys conducted in July 2017, both dolphin groups were sighted during on-effort search, and one of the two groups was sighted on primary lines (**Annex II of Appendix H**). Both sightings were not associated with any operating fishing vessel.

5.3.5 Distribution of the dolphin sightings made in July 2017 is shown in **Figure 6 of Appendix H**. Both sightings were located at the northwestern end of North Lantau waters, or to the north of Lung Kwu Chau (**Figure 6 of Appendix H**). As in previous monitoring months, the two dolphin groups were sighted far away from the HKLR03/HKBCF reclamation sites as well as the HKLR09/TMCLKL alignments (**Figure 6 of Appendix H**).

5.3.6 During the July's surveys, encounter rates of Chinese White Dolphins deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below) are shown in **Tables 5.3 and 5.4**.

Table 5.3 Individual Survey Event Encounter Rates

		Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	**Encounter rate (ANI)** (no. of dolphins from all on-effort sightings per 100 km of survey effort)
		Primary Lines Only	**Primary Lines Only**
NEL	Set 1: July 20th / 24th	0.0	0.0
	Set 2: July 27th / 28th	0.0	0.0
NWL	Set 1: July 20th / 24th	1.64	14.79
	Set 2: July 27th / 28th	0.0	0.0

Remarks:

1. Dolphin Encounter Rates Deduced from the Two Sets of Surveys (Two Surveys in Each Set) in July 2017 in Northeast Lantau (NEL) and Northwest Lantau (NWL).

Table 5.4 Monthly Average Encounter Rates

	Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)		**Encounter rate (ANI)** (no. of dolphins from all on-effort sightings per 100 km of survey effort)	
	Primary Lines Only	**Both Primary and Secondary Lines**	**Primary Lines Only**	**Both Primary and Secondary Lines**
Northeast Lantau	0.0	0.0	0.0	0.0
Northwest Lantau	0.8	1.2	7.3	6.6

Remarks:

1. Monthly Average Dolphin Encounter Rates (Sightings Per 100 km of Survey Effort) from All Four Surveys Conducted in July 2017 on Primary Lines only as well as Both Primary Lines and Secondary Lines in Northeast Lantau (NEL) and Northwest Lantau (NWL).

5.3.7 The average dolphin group size in July 2017 was 5.5 individuals per group, which was higher than the ones in previous months of monitoring surveys but with a very small sample size (i.e. only two groups).

Photo-identification Work

5.3.8 Nine known individual dolphins were sighted nine times during July's surveys (**Annexes III and IV of Appendix H**). All individuals were re-sighted only once during the monthly surveys in July.

5.3.9 Notably, two of these individuals (i.e. NL202 and NL233) were sighted with their calves during their re-sightings in July 2017.

Conclusion

5.3.10 During this month of dolphin monitoring, no adverse impact from the activities of this construction project on Chinese White Dolphins was noticeable from general observations.

5.3.11 Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of this project in the quarterly EM&A report, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period (June – August 2017) and baseline monitoring period (3-month period) will be made.

5.4 Reference

5.4.1 Buckland, S. T., Anderson, D. R., Burnham, K. P., Laake, J. L., Borchers, D. L., and Thomas, L. 2001. Introduction to distance sampling: estimating abundance of biological populations. Oxford University Press, London.

5.4.2 Hung, S. K. 2015. Monitoring of Marine Mammals in Hong Kong waters: final report (2014-15). An unpublished report submitted to the Agriculture, Fisheries and Conservation Department, 198 pp.

5.4.3 Jefferson, T. A. 2000. Population biology of the Indo-Pacific hump-backed dolphin in Hong Kong waters. Wildlife Monographs 144:1-65.

6 Environmental Site Inspection and Audit

6.1 Site Inspection

6.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. During the reporting month, four site inspections were carried out on 5, 13, 19 and 28 July 2017.

6.1.2 A summary of observations found during the site inspections and the follow up actions taken by the Contractor are described in **Table 6.1**.

Table 6.1 Summary of Environmental Site Inspections

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
30 Jun 2017	1. Silt curtain with gap was observed at Portion X. 2. Oil drum was observed without drip tray at N26. 3. Concrete waste was observed at N26. 4. Wastewater treatment facility was not connected properly at N26. 5. Waste was not properly collected by using waste separation facilities at N26. 6. Stagnant water was observed at N26. 7. Inadequate wheel washing facility was observed at N26.	1. The silt curtains were maintained at Portion X. 2. The oil drum was removed from N26. 3. The concrete waste was removed from N26. 4. The wastewater treatment facility was connected and operated properly at N26. 5. The accumulated waste was removed from N26. 6. Larvicide was applied to the stagnant water in the H-beam at N26. 7. An improved wheel washing facility was provided at N26.	5 Jul 2017
5 Jul 2017	1. General refuse was observed in a skip at HAT. 2. Concrete waste was observed on the ground at HAT. 3. Stagnant water was observed at S15. 4. Gaps of silt curtain were observed at Portion X. 5. Waste was observed on the ground at S9. 6. Waste was observed on the ground at S15. 7. An oil drum was observed without drip tray at HAT. 8. Fill cap of water barrier was found missing at WA6.	1. The general refuse was removed from HAT. 2. The concrete waste was removed from the ground at HAT. 3. The stagnant water was removed from S15. 4. The gaps of silt curtain were closed at Portion X. 5. The waste was removed from S9. 6. The waste was removed from S15. 7. The oil drum was removed from HAT. 8. The water barrier was covered with fill cap at WA6.	13 Jul 2017
13 Jul 2017	1. Stagnant water was observed at N4. 2. Waste was observed at N1. 3. Gaps of silt curtain were observed at Portion X. 4. Stagnant water was observed at S9. 5. Stagnant water was observed inside a pipe at N4. 6. An oil drum was observed without drip tray at S15.	1. The stagnant water was removed from N4. 2. The waste was removed from N1. 3. The gaps of silt curtain were closed at Portion X. 4. The stagnant water was removed from S9. 5. The pipe containing stagnant water was removed from N4. 6. The oil drum was removed from S15.	19 Jul 2017

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
	7. A loaded dump truck was observed without cover during transport of materials at S16. 8. An oil drum was observed without drip tray at S25.	7. The loaded dump truck was covered by impervious sheeting while it is transporting in S16. 8. The oil drum was removed from S25.	
19 Jul 2017	1. Gaps of silt curtain were observed at Portion X. 2. Rubbish bin was full and waste was observed on the ground at WA6. 3. Waste was observed at S15. 4. Effluent leaking from a broken blue hose was observed at S15. 5. Concrete waste was observed in an undesignated area at S16. 6. Stagnant water was observed at S16. 7. Waste was observed at Ventilation Building.	1. The gaps of silt curtain were closed at Portion X. 2. The waste was removed from WA6. 3. The waste was removed from S15. 4. The broken blue hose was removed from S15. 5. A designated area was provided for the temporarily storage of concrete waste at S16. 6. The stagnant water was removed from S16. 7. The waste was removed from Ventilation Building.	28 Jul 2017
28 Jul 2017	1. Waste was observed at Cut & Cover. 2. Gaps of silt curtain were observed at Portion X. 3. No proper cover for the stored cement bags was observed at Ventilation Building. 4. Waste was observed at Ventilation Building. 5. Stagnant water was observed at Ventilation Building.	The Contractor was recommended to: 1. Remove the waste at Cut & Cover. 2. Close the gaps of silt curtain at Portion X. 3. Cover the cement bags with properly at Ventilation Building. 4. Remove the waste at Ventilation Building. 5. Remove the stagnant water at Ventilation Building.	Follow-up actions for the observations issued for the last weekly site inspection of the reporting month will be inspected during the next site inspections

6.1.3 The Contractor has rectified most of the observations as identified during environmental site inspections within the reporting month. Follow-up actions for outstanding observations will be inspected during the next site inspections.

6.2 Advice on the Solid and Liquid Waste Management Status

6.2.1 The Contractor registered as a chemical waste producer for the Project. Sufficient numbers of receptacles were available for general refuse collection and sorting.

6.2.2 Monthly summary of waste flow table is detailed in **Appendix I**.

6.2.3 The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

6.3 Environmental Licenses and Permits

6.3.1 The valid environmental licenses and permits during the reporting month are summarized in **Appendix K**.

6.4 Implementation Status of Environmental Mitigation Measures

6.4.1 In response to the site audit findings, the Contractors have rectified most of the observations as identified during environmental site inspections during the reporting month. Follow-up actions for outstanding observations will be inspected during the next site inspections.

6.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix L**. Most of the necessary mitigation measures were implemented properly.

6.4.3 Regular marine travel route for marine vessels were implemented properly in accordance to the submitted plan and relevant records were kept properly.

6.4.4 Dolphin Watching Plan was implemented during the reporting month. No dolphins inside the silt curtain were observed. The relevant records were kept properly.

6.5 Summary of Exceedances of the Environmental Quality Performance Limit

6.5.1 For air quality monitoring, no Action and Limit Level exceedances of 1-hr TSP and 24-hr TSP were recorded at AMS5 and AMS6 during the reporting month.

6.5.2 For construction noise, no Action and Limit Level exceedances were recorded at the monitoring station during the reporting month.

6.5.1 For marine water quality monitoring, no Limit Level exceedances of dissolved oxygen, turbidity and suspended solid levels were recorded by the ET of Contract No. HY/2010/02 and Contract No. HY/2011/09 during the reporting month. There was no Action Level exceedances of dissolved oxygen and turbidity levels were recorded by the ET of Contract No. HY/2010/02 and Contract No. HY/2011/09 during the reporting month. There were two Action Level exceedances of suspended solid levels were recorded by the ET of Contract No. HY/2010/02 during the reporting month.

6.6 Summary of Complaints, Notification of Summons and Successful Prosecution

6.6.1 Statistics on notifications of summons and successful prosecutions are summarized in **Appendix M**.

7 Future Key Issues

7.1 Construction Programme for the Coming Months

7.1.1 As informed by the Contractor, the major construction activities for August 2017 are summarized in **Table 7.1**.

Table 7.1 Construction Activities for August 2017

Site Area	Description of Activities
WA7	Stockpiling
Portion X	Removal of toe loading
Portion X	Dismantling/Trimming of Temporary 40mm Stone Platform for Construction of Seawall
Portion X	Construction of Seawall
Portion X	Loading and Unloading of Filling Materials
Portion X	Backfilling at Scenic Hill Tunnel (Cut & Cover Tunnel)
Portion X	Excavation for HKBCF to Airport Tunnel & Construction of Tunnel Box structure
Portion X	Excavation for Diversion of Culvert PR14
Airport Road	Works for Diversion of Airport Road
Airport Road / Airport Express Line / East Coast Road	Utilities Detection
Airport Road / Airport Express Line/ East Coast Road	Establishment of Site Access
Shaft 3 Extension North Shaft	Construction of Tunnel Box Structure
Airport Road	Excavation and Lateral Support Works & Construction of Tunnel Box Structure for HKBCF to Airport Tunnel West (Cut & Cover Tunnel)
Portion X	Excavation and Lateral Support Works & Construction of Tunnel Box Structure for HKBCF to Airport Tunnel East (Cut & Cover Tunnel)
Portion X	Sub-structure, Superstructure & Finishing works for Highway Operation and Maintenance Area Building
West Portal	Superstructure & Finishing Works for Scenic Hill Tunnel West Portal Ventilation building

7.2 Environmental Monitoring Schedule for the Coming Month

7.2.1 The tentative schedule for environmental monitoring in August 2017 is provided in **Appendix D**.

8 Conclusions

8.1 Conclusions

8.1.1 The construction phase and EM&A programme of the Contract commenced on 17 October 2012. This is the fifty-eighth Monthly EM&A report for the Contract which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 31 July 2017.

Air Quality

8.1.2 For air quality monitoring, no Action and Limit Level exceedances of 1-hr TSP and 24-hr TSP were recorded at AMS5 and AMS6 during the reporting month.

Noise

8.1.3 For construction noise, no Action and Limit Level exceedances were recorded at the monitoring station during the reporting month.

Water Quality

8.1.4 For marine water quality monitoring, no Limit Level exceedances of dissolved oxygen, turbidity and suspended solid levels were recorded by the ET of Contract No. HY/2010/02 and Contract No. HY/2011/09 during the reporting month. There was no Action Level exceedances of dissolved oxygen and turbidity levels were recorded by the ET of Contract No. HY/2010/02 and Contract No. HY/2011/09 during the reporting month. There were two Action Level exceedances of suspended solid levels were recorded by the ET of Contract No. HY/2010/02 during the reporting month.

Dolphin

8.1.5 During the July's surveys of the Chinese White Dolphin, no adverse impact from the activities of this construction project on Chinese White Dolphins was noticeable from general observations.

8.1.6 Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of this project in the quarterly EM&A report, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period (June 2017 – August 2017) and baseline monitoring period (3-month period) will be made.

Environmental Site Inspection and Audit

8.1.7 Environmental site inspections were carried out on 5, 13, 19 and 28 July 2017. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.

8.1.8 No notification of summons and prosecution was received during the reporting period.

FIGURES

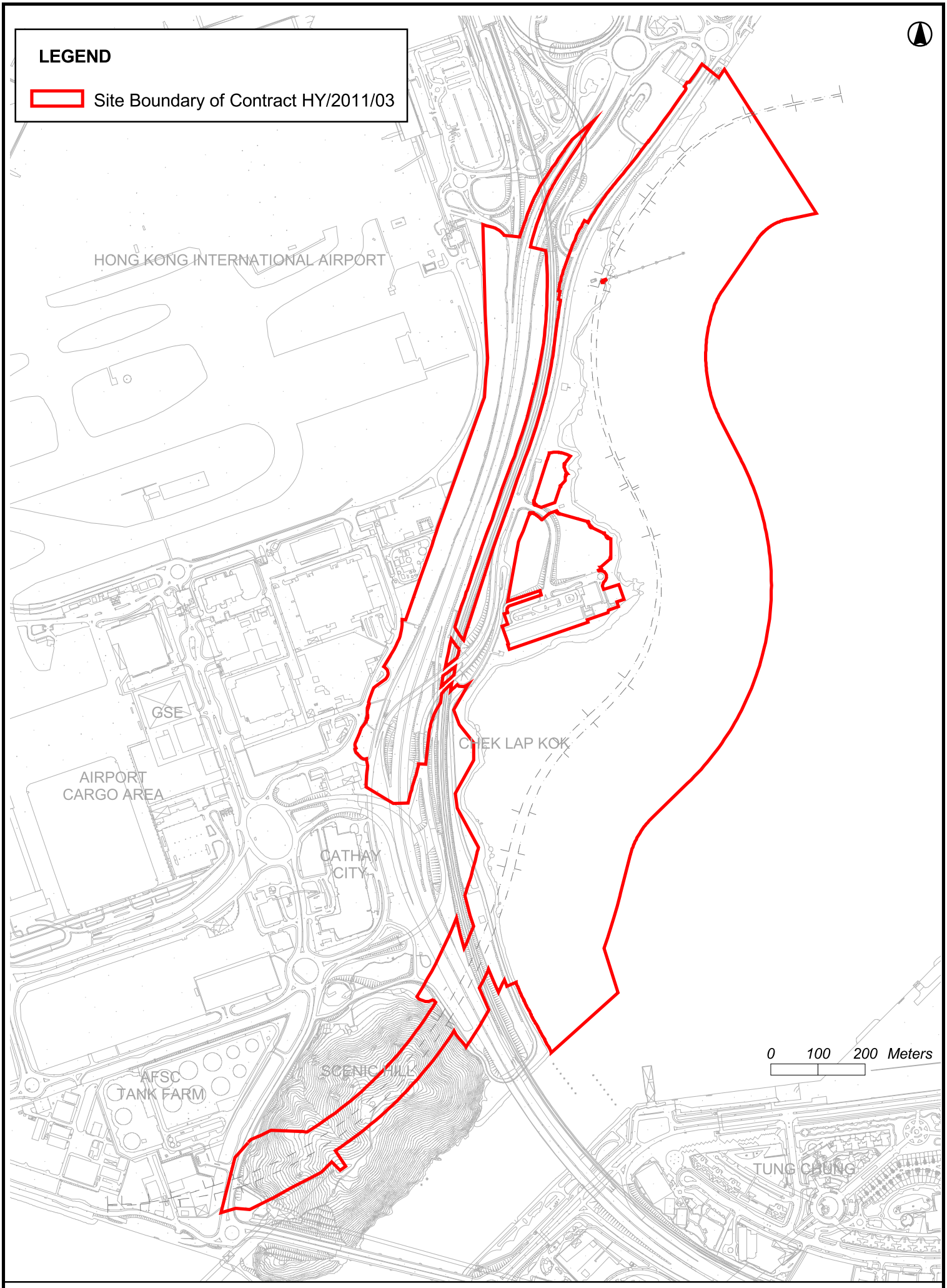
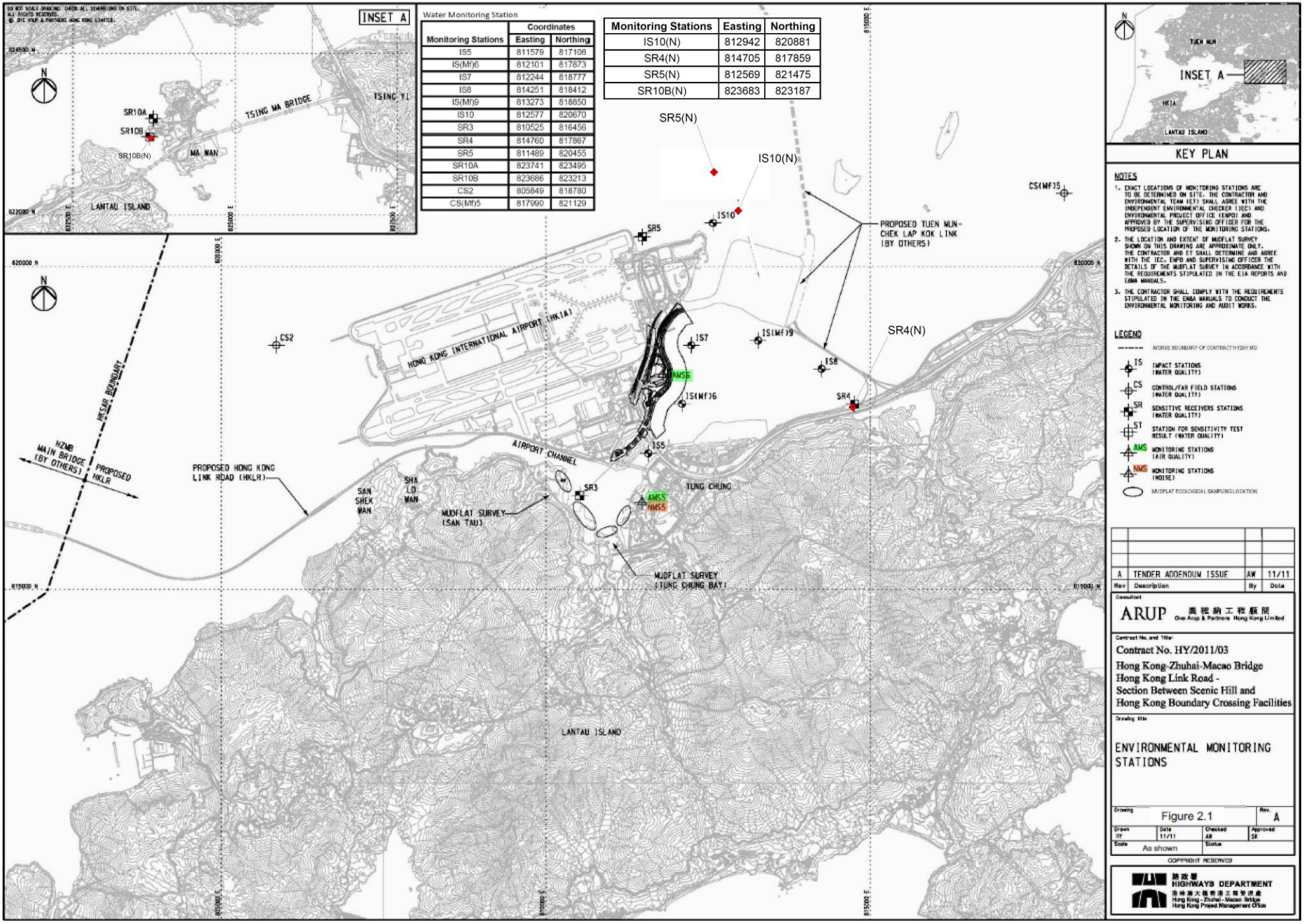


Figure 1.1 Location of the Site



Water Monitoring Station

Monitoring Stations	Coordinates	
	Easting	Northing
IS5	811579	817106
IS(Mf)6	812101	817873
IS7	812244	818777
IS8	814251	818412
IS(Mf)9	813273	818850
IS10	812577	820670
SR3	810525	816456
SR4	814760	817867
SR5	811489	820455
SR10A	823741	823495
SR10B	823686	823213
CS2	805849	818780
CS(Mf)5	817990	821129

Monitoring Stations	Easting	Northing
IS10(N)	812942	820881
SR4(N)	814705	817859
SR5(N)	812569	821475
SR10B(N)	823683	823187

NOTES

1. EXACT LOCATIONS OF MONITORING STATIONS ARE TO BE DETERMINED ON SITE. THE CONTRACTOR AND ENVIRONMENTAL TEAM (ET) SHALL AGREE WITH THE INDEPENDENT ENVIRONMENTAL CHECKER (IEC) AND ENVIRONMENTAL PROJECT OFFICE (ENPO) AND APPROVED BY THE SUPERVISING OFFICER FOR THE PROPOSED LOCATION OF THE MONITORING STATIONS.
2. THE LOCATION AND EXTENT OF MUDFLAT SURVEY SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. THE CONTRACTOR AND ET SHALL DETERMINE AND AGREE WITH THE IEC, ENPO AND SUPERVISING OFFICER THE DETAILS OF THE MUDFLAT SURVEY IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN THE EIA REPORTS AND EM&A MANUALS.
3. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS STIPULATED IN THE EM&A MANUALS TO CONDUCT THE ENVIRONMENTAL MONITORING AND AUDIT WORKS.

LEGEND

- WORKS BOUNDARY OF CONTRACT HY/2011/03
- IS — IMPACT STATIONS (WATER QUALITY)
- CS — CONTROL/FAR FIELD STATIONS (WATER QUALITY)
- SR — SENSITIVE RECEIVERS STATIONS (WATER QUALITY)
- ST — STATION FOR SENSITIVITY TEST RESULT (WATER QUALITY)
- AMS — MONITORING STATIONS (AIR QUALITY)
- NMS — MONITORING STATIONS (NOISE)
- MUDFLAT ECOLOGICAL SAMPLING LOCATION

Rev	Description	By	Date
A	TENDER ADDENDUM ISSUE	AW	11/11

Consultant: ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited

Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road - Section Between Scenic Hill and Hong Kong Boundary Crossing Facilities

Drawing title:
ENVIRONMENTAL MONITORING STATIONS

Drawing: Figure 2.1 Rev. A

Drawn	Date	Checked	Approved
RY	11/11	AW	SK

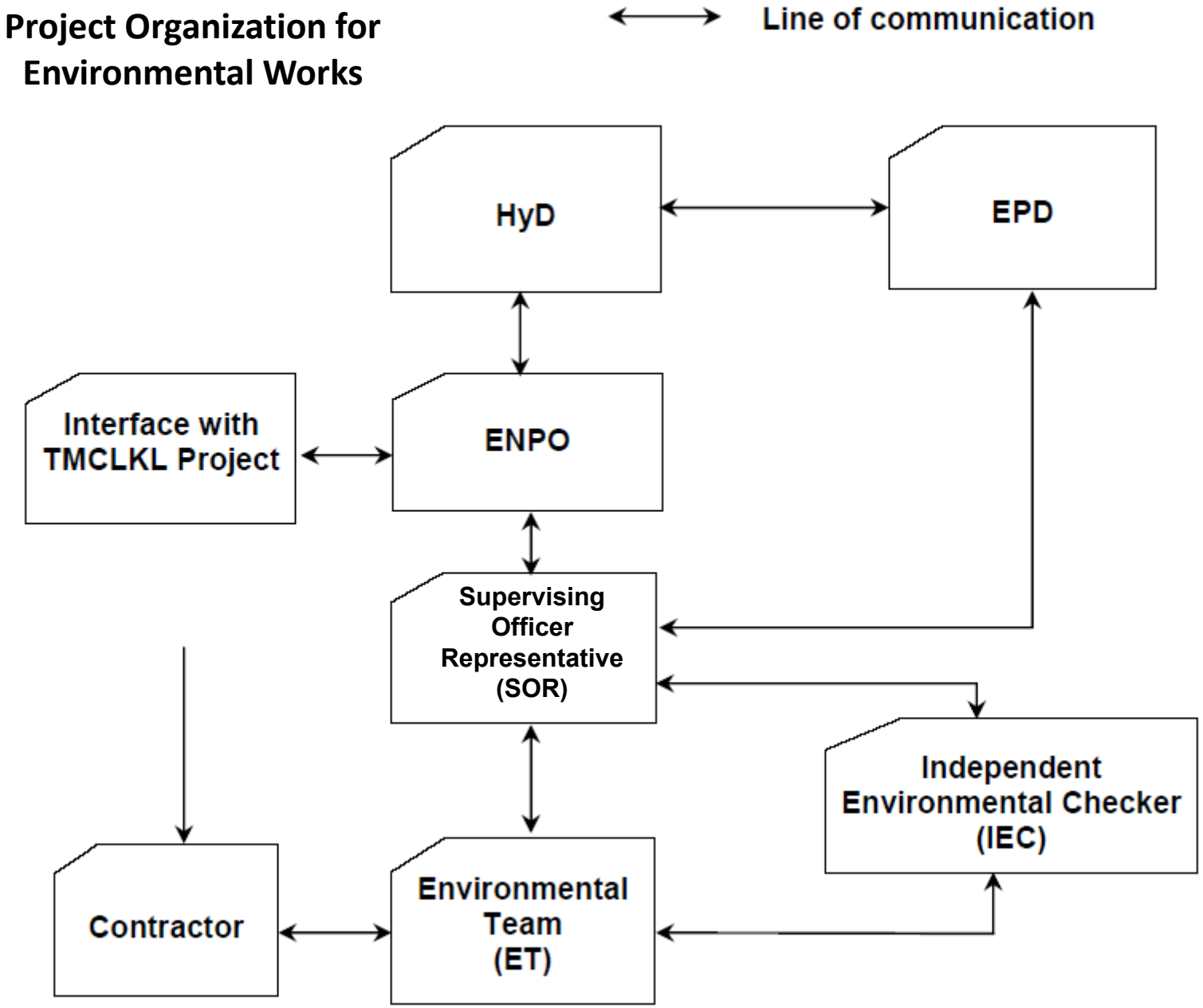
Scale: As shown Status:

HIGHWAYS DEPARTMENT 路政署
Hong Kong-Zhuhai-Macao Bridge Hong Kong Project Management Office 港珠澳大橋香港工程管理處

APPENDIX A

Environmental Management Structure

Project Organization for Environmental Works



APPENDIX B

Construction Programme

FILE: 3M63 (Rev.00)

Sheet 1 of 9

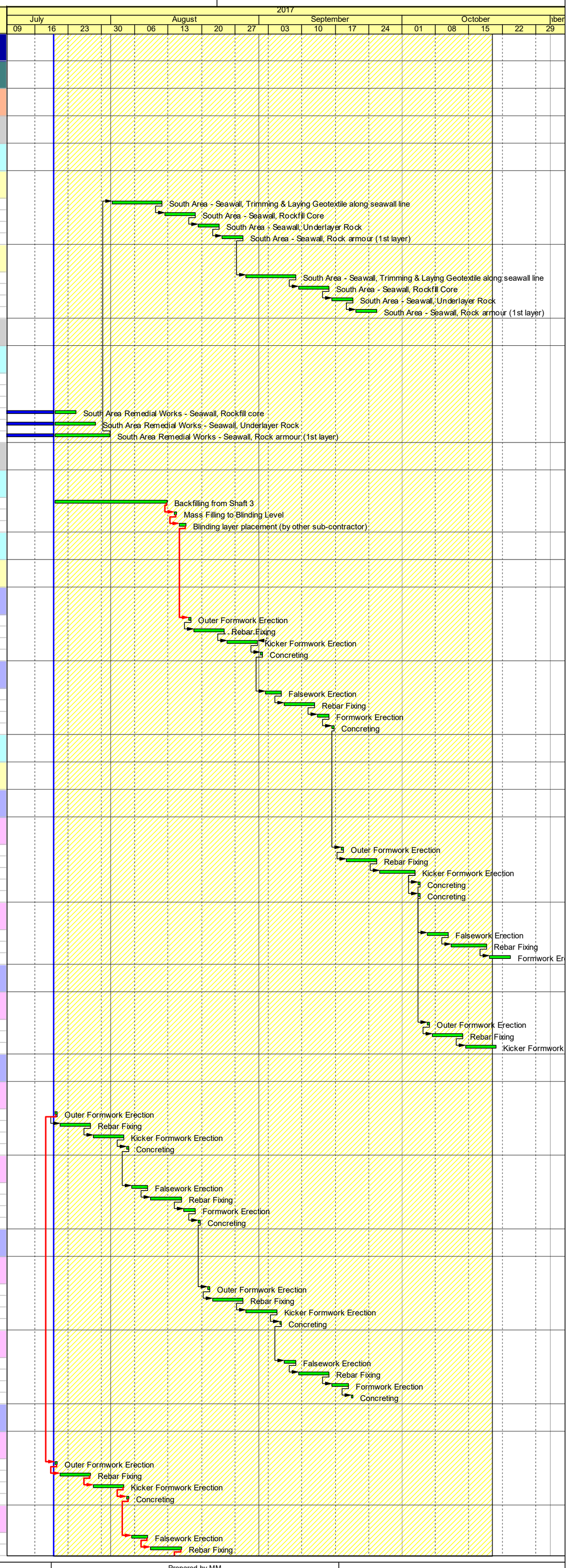
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Aug 2017 to Oct 2017)

Layout HZMB - (3M63 Rolling Prog)

TASK filters: 3M63, HZMB No Level Effort.

Activity ID	Activity Name
	3 MONTHS PROGRAMME HY/2011/03 (Aug 2017 to Oct 2017)(Rev0)
	WORKS IN SOUTH AREA - CH 13+516 to CH 15+050 (SCENIC HILL TUNNEL, MT & CCT)
	Reclamation Works
	Outstanding Reclamation Works - SWCH 0+000 to SWCH 0+450
	Seawall Construction
	SWCH 0+000 to SWCH 0+080 - 80m
SW1550	South Area - Seawall, Trimming & Laying Geotextile along seawall line
SW1560	South Area - Seawall, Rockfill Core
SW1570	South Area - Seawall, Underlayer Rock
SW1580	South Area - Seawall, Rock armour (1st layer)
	SWCH 0+080 to SWCH 0+150 - 70m
SW1590	South Area - Seawall, Trimming & Laying Geotextile along seawall line
SW1640	South Area - Seawall, Rockfill Core
SW1650	South Area - Seawall, Underlayer Rock
SW1660	South Area - Seawall, Rock armour (1st layer)
	Area 1: Outstanding Remedial Works to Seawall - SWCH 0+530 to SWCH 0+800 (270m)
	Permanent Seawall
A1121	South Area Remedial Works - Trimming & Laying Geotextile along seawall line, 2nd half
A1120	South Area Remedial Works - Excavation for Pipe Piles Cutting
A1122	South Area Remedial Works - Pipe piles cutting
A1143	South Area Remedial Works - Seawall, Rockfill core
A1123	South Area Remedial Works - Seawall, Underlayer Rock
A1133	South Area Remedial Works - Seawall, Rock armour (1st layer)
	PR10 Box Culvert Construction
	Pre-Work
A4990	Backfilling from Shaft 3
A5000	Mass Filling to Blinding Level
A5010	Blinding layer placement (by other sub-contractor)
	Spill Trap (Stage 1)
	Structure
	Base Slab
A238784	Outer Formwork Erection
A238794	Rebar Fixing
A238804	Kicker Formwork Erection
A238814	Concreting
	Wall & Top Slab
A238824	Falsework Erection
A238834	Rebar Fixing
A238844	Formwork Erection
A238854	Concreting
	PR10 Box Culvert Extension (Stage 1)
	Structure Construction (Bay 1-6)
	Bay 1 (7.79m length)
	Base Slab
A4860	Outer Formwork Erection
A4870	Rebar Fixing
A4930	Kicker Formwork Erection
A4940	Concreting
A5020	Concreting
	Wall & Top Slab
A4950	Falsework Erection
A4960	Rebar Fixing
A4970	Formwork Erection
	Bay 2 (12m length)
	Base Slab
A238304	Outer Formwork Erection
A238314	Rebar Fixing
A238324	Kicker Formwork Erection
	Bay 4 (19.65m length)
	Base Slab
A238464	Outer Formwork Erection
A238474	Rebar Fixing
A238484	Kicker Formwork Erection
A238494	Concreting
	Wall & Top Slab
A238504	Falsework Erection
A238514	Rebar Fixing
A238524	Formwork Erection
A238534	Concreting
	Bay 5 (10m length)
	Base Slab
A238544	Outer Formwork Erection
A238554	Rebar Fixing
A238564	Kicker Formwork Erection
A238574	Concreting
	Wall & Top Slab
A238584	Falsework Erection
A238594	Rebar Fixing
A238604	Formwork Erection
A238614	Concreting
	Bay 6 (9.454m length)
	Base Slab
A238624	Outer Formwork Erection
A238634	Rebar Fixing
A238644	Kicker Formwork Erection
A238654	Concreting
	Wall & Top Slab
A238664	Falsework Erection
A238674	Rebar Fixing



Works Programme

Works Programme

Works Programme

Milestone

Milestone

Works Programme

China State Construction Engineering (Hong Kong) Ltd -

Contract No. HY/2011/03 - HZMB, Hong Kong Link Road

, Section between Scenic Hill and HKBCF

Prepared by MM

Date	Revision	Checked	Approved
31-Jul-17		WC	SYT

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGRG. (HONG KONG) LTD.

FILE: 3M63 (Rev.00)

Sheet 2 of 9

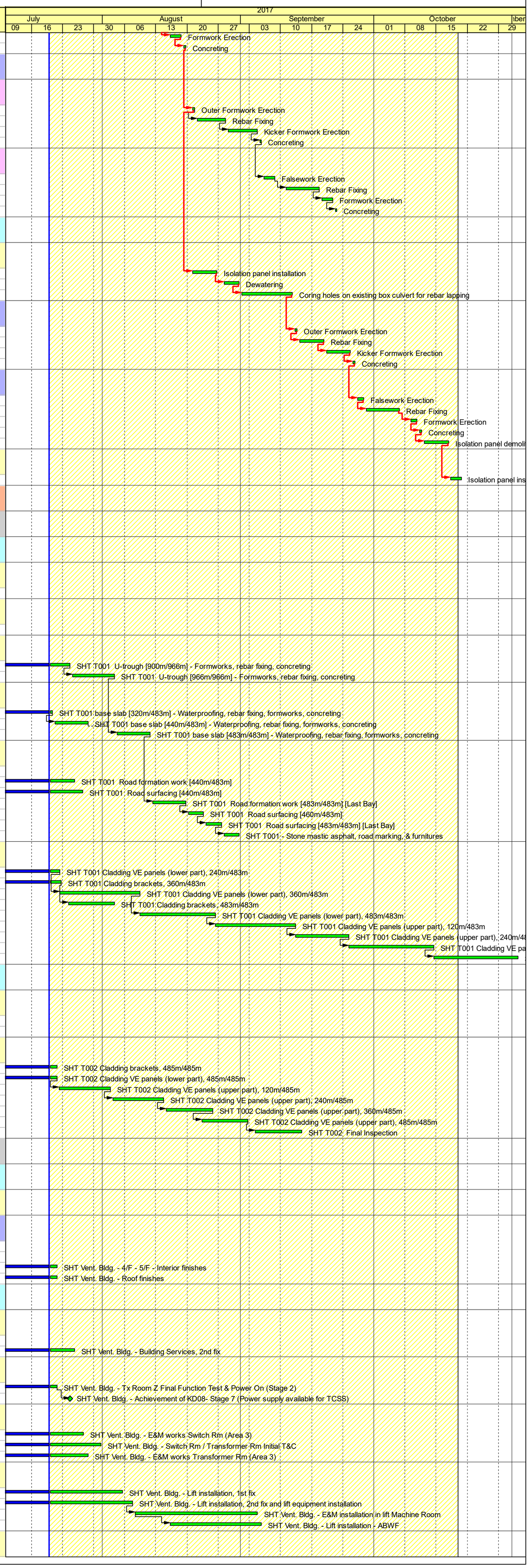
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Aug 2017 to Oct 2017)

Layout HZMB - (3M63 Rolling Prog)

TASK filters: 3M63, HZMB No Level Effort.

Activity ID	Activity Name
A238684	Formwork Erection
A238694	Concreting
Bay 7-8 (9.155m length)	
Base Slab	
A238704	Outer Formwork Erection
A238714	Rebar Fixing
A238724	Kicker Formwork Erection
A238734	Concreting
Wall & Top Slab	
A238744	Falsework Erection
A238754	Rebar Fixing
A238764	Formwork Erection
A238774	Concreting
Reinstatement for temporary diversion, to Highway (Stage 2)	
Reinstatement for Bay 1-2	
A238864	Isolation panel installation
A238874	Dewatering
A238884	Coring holes on existing box culvert for rebar lapping
Base Slab	
A238894	Outer Formwork Erection
A238904	Rebar Fixing
A238914	Kicker Formwork Erection
A238924	Concreting
Wall & Top Slab	
A238934	Falsework Erection
A238944	Rebar Fixing
A238954	Formwork Erection
A238964	Concreting
A238974	Isolation panel demolition
Reinstatement for Bay 3-4	
A238984	Isolation panel installation
SHT Mined Tunnel Works at Scenic Hill	
Mined Tunnel through Scenic Hill [480m Approx.]	
To Zhuhai-Macao [4-Lane] Carriageway - T001	
T001 OHVD	
SHT5110-130	SHT T001 Bay 24 OHVD [483m/483m] - Formworks, rebar fixing, concreting (Except CP5)
T001 Tunnel Black Paint	
SHT7510-665	SHT T001 Black Paint [483m/483m]
T001 Utility Trough	
SHT7510-315	SHT T001 U-trough [900m/966m] - Formworks, rebar fixing, concreting
SHT7510-325	SHT T001 U-trough [966m/966m] - Formworks, rebar fixing, concreting
T001 Base Slab	
SHT4080	SHT T001 base slab [320m/483m] - Waterproofing, rebar fixing, formworks, concreting
SHT4090	SHT T001 base slab [440m/483m] - Waterproofing, rebar fixing, formworks, concreting
SHT4100	SHT T001 base slab [483m/483m] - Waterproofing, rebar fixing, formworks, concreting
T001 Roadworks	
SHT7510-535	SHT T001 Road surfacing [220m/483m]
SHT7510-515	SHT T001 Road formation work [440m/483m]
SHT7510-545	SHT T001 Road surfacing [440m/483m]
SHT7510-615	SHT T001 Road formation work [483m/483m] [Last Bay]
SHT7510-635	SHT T001 Road surfacing [460m/483m]
SHT7510-625	SHT T001 Road surfacing [483m/483m] [Last Bay]
SHT7510-925	SHT T001 - Stone mastic asphalt, road marking, & furnitures
T001 Tunnel Cladding	
SHT7510-755	SHT T001 Cladding VE panels (lower part), 240m/483m
SHT7510-705	SHT T001 Cladding brackets, 360m/483m
SHT7510-765	SHT T001 Cladding VE panels (lower part), 360m/483m
SHT7510-715	SHT T001 Cladding brackets, 483m/483m
SHT7510-775	SHT T001 Cladding VE panels (lower part), 483m/483m
SHT7510-875	SHT T001 Cladding VE panels (upper part), 120m/483m
SHT7510-725	SHT T001 Cladding VE panels (upper part), 240m/483m
SHT7510-885	SHT T001 Cladding VE panels (upper part), 360m/483m
SHT7510-895	SHT T001 Cladding VE panels (upper part), 483m/483m
To HKBCF [3-Lane] Carriageway - T002	
T002 Roadworks	
SHT7510-495	SHT T002 Road surfacing [485m/485m] [Last Bay]
SHT7510-555	SHT T002 - Stone mastic asphalt, road marking, & furnitures
T002 Tunnel Cladding	
SHT7510-815	SHT T002 Cladding brackets, 485m/485m
SHT7510-845	SHT T002 Cladding VE panels (lower part), 485m/485m
SHT7510-905	SHT T002 Cladding VE panels (upper part), 120m/485m
SHT7510-915	SHT T002 Cladding VE panels (upper part), 240m/485m
SHT7510-855	SHT T002 Cladding VE panels (upper part), 360m/485m
SHT7510-865	SHT T002 Cladding VE panels (upper part), 485m/485m
SHT7510-825	SHT T002 Final Inspection
Ventilation Building	
RC Works	
ABWF	
Internal Finishing	
SHT10128	SHT Vent. Bldg. - 2/F - 3/F - Interior Finishes
SHT10118	SHT Vent. Bldg. - G/F - 1/F - Interior Finishes
SHT10138	SHT Vent. Bldg. - 4/F - 5/F - Interior finishes
SHT10148	SHT Vent. Bldg. - Roof finishes
E&M Works	
Building Services	
SHT8110.01	SHT Vent. Bldg. - Building Services , 1st fix
SHT8110.09	SHT Vent. Bldg. - Building Services, 2nd fix
Interface with CLP: CLP Substation Z (at G/F)	
SHT8421	SHT Vent. Bldg. - Tx Room Z Final Function Test & Power On (Stage 2)
SHT8130	SHT Vent. Bldg. - Achievement of KD08- Stage 7 (Power supply available for TCSS)
E&M Switch Rm Installation by Contractor	
SHT8124	SHT Vent. Bldg. - E&M works Switch Rm (Area 3)
SHT8095	SHT Vent. Bldg. - Switch Rm / Transformer Rm Initial T&C
SHT8450	SHT Vent. Bldg. - E&M works Transformer Rm (Area 3)
Lift Installation	
SHT8225	SHT Vent. Bldg. - Lift installation, 1st fix
SHT8235	SHT Vent. Bldg. - Lift installation, 2nd fix and lift equipment installation
SHT8245	SHT Vent. Bldg. - E&M installation in lift Machine Room
SHT8205	SHT Vent. Bldg. - Lift installation - ABWF
E&M Equipment /Plant Installation except Switch Room)	



FILE: 3M63 (Rev.00)

Sheet 3 of 9

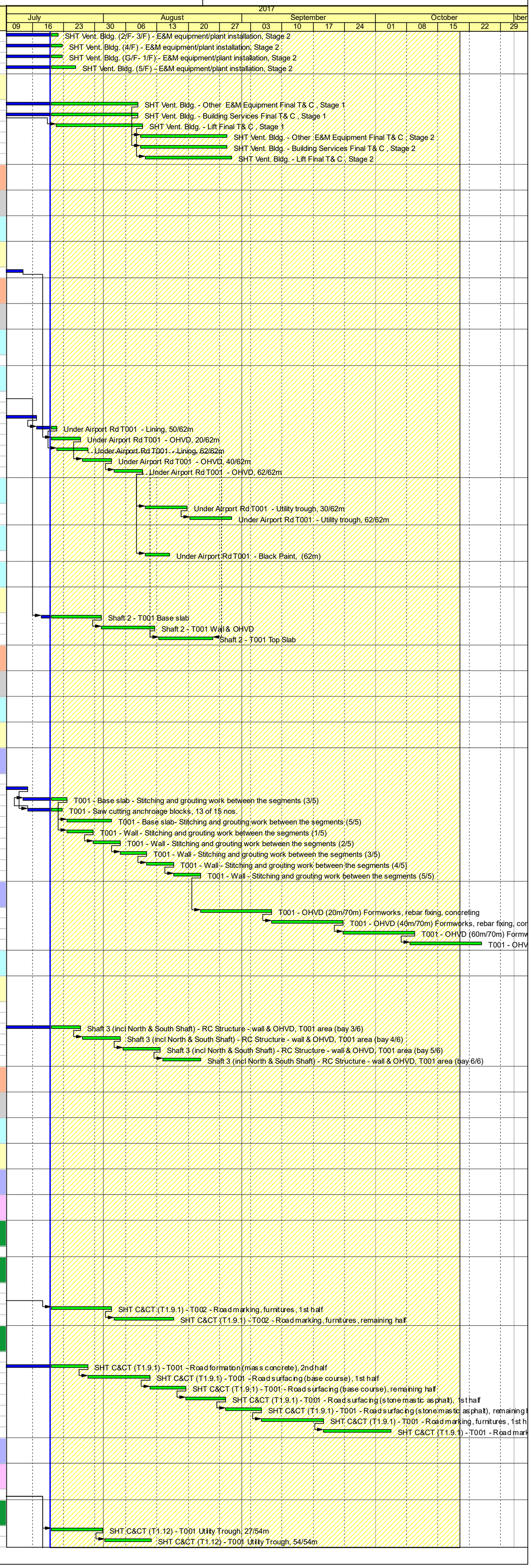
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Aug 2017 to Oct 2017)

Layout HZMB - (3M63 Rolling Prog)

TASK filters: 3M63, HZMB No Level Effort.

Activity ID	Activity Name
SHT8135	SHT Vent. Bldg. (2/F- 3/F) - E&M equipment/plant installation, Stage 2
SHT8155	SHT Vent. Bldg. (4/F) - E&M equipment/plant installation, Stage 2
SHT8175	SHT Vent. Bldg. (G/F- 1/F) - E&M equipment/plant installation, Stage 2
SHT8195	SHT Vent. Bldg. (5/F) - E&M equipment/plant installation, Stage 2
E&M Testing and Commisioning	
SHT8180.06	SHT Vent. Bldg. - Other E&M Equipment Final T& C , Stage 1
SHT8180.26	SHT Vent. Bldg. - Building Services Final T& C , Stage 1
SHT8180.46	SHT Vent. Bldg. - Lift Final T& C , Stage 1
SHT8180.16	SHT Vent. Bldg. - Other E&M Equipment Final T& C , Stage 2
SHT8180.36	SHT Vent. Bldg. - Building Services Final T& C , Stage 2
SHT8180.56	SHT Vent. Bldg. - Lift Final T& C , Stage 2
CCT Works across Airport Road at Ch 14+016 to 14+222 (206m)	
CCT [East Access Shaft] (Shaft 1)	
Civil & Structurals Works	
ELS Works	
SHT1089-99	SHT C&CT @ Shaft 1 - T001 - OHVD (Formworks , rebars, concrete)
Mined Tunnel Under Airport Road between SHAFT 1 & SHAFT 2(by Drill & Break)	
Mined Tunnel Works - Drive from Shaft 2 (by Drill & Break)	
T002 - Utillities Trough	
SHT7702	Under Airport Rd T002 - Utility trough, 56/56m
T001 Tunnel Slab, Lining, OHVD	
SHT2140-15	Under Airport Rd T001 - Undrained slab, 62/62m
SHT2140-18	Under Airport Rd T001 - Lining, 30/62m
SHT2140-19	Under Airport Rd T001 - Lining, 40/62m
SHT2140-20	Under Airport Rd T001 - Lining, 50/62m
SHT2140-22	Under Airport Rd T001 - OHVD, 20/62m
SHT2140-21	Under Airport Rd T001 - Lining, 62/62m
SHT2140-23	Under Airport Rd T001 - OHVD, 40/62m
SHT2140-24	Under Airport Rd T001 - OHVD, 62/62m
T001 - Utilities Trough	
SHT7703	Under Airport Rd T001 - Utility trough, 30/62m
SHT7704	Under Airport Rd T001 - Utility trough, 62/62m
T001 - Black Paint	
SHT2140-62	Under Airport Rd T001 - Black Paint, (62m)
SHAFT 2 - Lining Works	
T001 Tunnel Slab, Lining, OHVD	
SHT2140-28	Shaft 2 - T001 Base slab
SHT2140-29	Shaft 2 - T001 Wall & OHVD
SHT2140-30	Shaft 2 - T001 Top Slab
Mined Tunnel Underneath AEL Ch 14+128 to Ch 14+175	
Civil & Structural Works	
SHT Works under AEL(BOX JACKING) - By Double Jack - 7days 24 hrs	
Box Casting/Jacking - T001 (24 hours working period)	
T001 - Segment (Stitching and Grouting)-	
BXJ-15921	T001 - Saw cutting anchroage blocks, 5 of 15 nos.
BXJ-15922	T001 - Saw cutting anchroage blocks, 9 of 15 nos.
BXJ-15901	T001 - Base slab - Stitching and grouting work between the segments (3/5)
BXJ-15931	T001 - Saw cutting anchroage blocks, 13 of 15 nos.
BXJ-15911	T001 - Base slab- Stitching and grouting work between the segments (5/5)
BXJ-15941	T001 - Wall - Stitching and grouting work between the segments (1/5)
BXJ-15951	T001 - Wall - Stitching and grouting work between the segments (2/5)
BXJ-15961	T001 - Wall - Stitching and grouting work between the segments (3/5)
BXJ-15971	T001 - Wall - Stitching and grouting work between the segments (4/5)
BXJ-15981	T001 - Wall - Stitching and grouting work between the segments (5/5)
T001 - OHVD-	
BXJ-15991	T001 - OHVD (20m/70m) Formworks, rebar fixing, concreting
BXJ-16001	T001 - OHVD (40m/70m) Formworks, rebar fixing, concreting
BXJ-16011	T001 - OHVD (60m/70m) Formworks, rebar fixing, concreting
BXJ-16021	T001 - OHVD (70m/70m) Formworks, rebar fixing, concreting
SHAFT 3 - CCT RC Works for East Access Shaft (after completion of Box Jacking)	
T001 - RC Structure	
SHT2140-230	Shaft 3 (incl North & South Shaft) - RC Structure - base slab, T001 area (bay 3)
SHT2140-260	Shaft 3 (incl North & South Shaft) - RC Structure - wall & OHVD, T001 area (bay 2/6)
SHT2140-270	Shaft 3 (incl North & South Shaft) - RC Structure - wall & OHVD, T001 area (bay 3/6)
SHT2140-280	Shaft 3 (incl North & South Shaft) - RC Structure - wall & OHVD, T001 area (bay 4/6)
SHT2140-290	Shaft 3 (incl North & South Shaft) - RC Structure - wall & OHVD, T001 area (bay 5/6)
SHT2140-300	Shaft 3 (incl North & South Shaft) - RC Structure - wall & OHVD, T001 area (bay 6/6)
CCT Works over Reclaimed Area at Ch 14+212 to Ch 15+050 (828m)	
CCT Works - on New Reclamation [490m Approx.]	
CCT Works in Remaining Section [325m Approx.][Ch 14+375 to Ch 14+700]	
Civil & Structurals Works	
ELS - Tunnel SHT- C&CT (T1.9.1 + Ext. Ch14+315 to Ch14+452/(Ch14+322 to Ch14+474)	
CCT RC Works(T1.9.1+Extension)	
T001 (1.9.1) - Utilities Trough	
SHT1868-595	SHT C&CT (T1.9.1) - T001 (132m/132m)
T002 (1.9.1) - Roadworks (Road formation, Surfacing and Road Marking)	
SHT9720-210	SHT C&CT (T1.9.1) - T002 - Road surfacing (stone mastic asphalt), 1st half
SHT9720-220	SHT C&CT (T1.9.1) - T002 - Road surfacing (stone mastic asphalt), remaining half
SHT9720-160	SHT C&CT (T1.9.1) - T002 - Road marking, furnitures, 1st half
SHT9720-170	SHT C&CT (T1.9.1) - T002 - Road marking, furnitures, remaining half
T001 (1.9.1) - Roadworks (Road formation, Surfacing and Road marking)	
SHT9730-100	SHT C&CT (T1.9.1) - T001 - Road formation (mass concrete), 1st half
SHT9730-110	SHT C&CT (T1.9.1) - T001 - Road formation (mass concrete), 2nd half
SHT9730-120	SHT C&CT (T1.9.1) - T001 - Road surfacing (base course), 1st half
SHT9730-130	SHT C&CT (T1.9.1) - T001 - Road surfacing (base course), remaining half
SHT9730-140	SHT C&CT (T1.9.1) - T001 - Road surfacing (stone mastic asphalt), 1st half
SHT9730-150	SHT C&CT (T1.9.1) - T001 - Road surfacing (stone mastic asphalt), remaining half
SHT9730-160	SHT C&CT (T1.9.1) - T001 - Road marking, furnitures, 1st half
SHT9730-170	SHT C&CT (T1.9.1) - T001 - Road marking, furnitures, remaining half
ELS - Tunnel SHT- C&CT (T1.12 Ch 14+264 to Ch 14+315)/(Ch 14+257 to Ch 14+322)	
T001 RC Structure	
SHT1925-315	SHT C&CT (T1.12) - T001 Roof Slab, Formworks, rebars, concrete (bay 3/3)
T001 - Utilities Trough	
SHT7710	SHT C&CT (T1.12) - T001 Utility Trough, 27/54m
SHT7711	SHT C&CT (T1.12) - T001 Utility Trough, 54/54m



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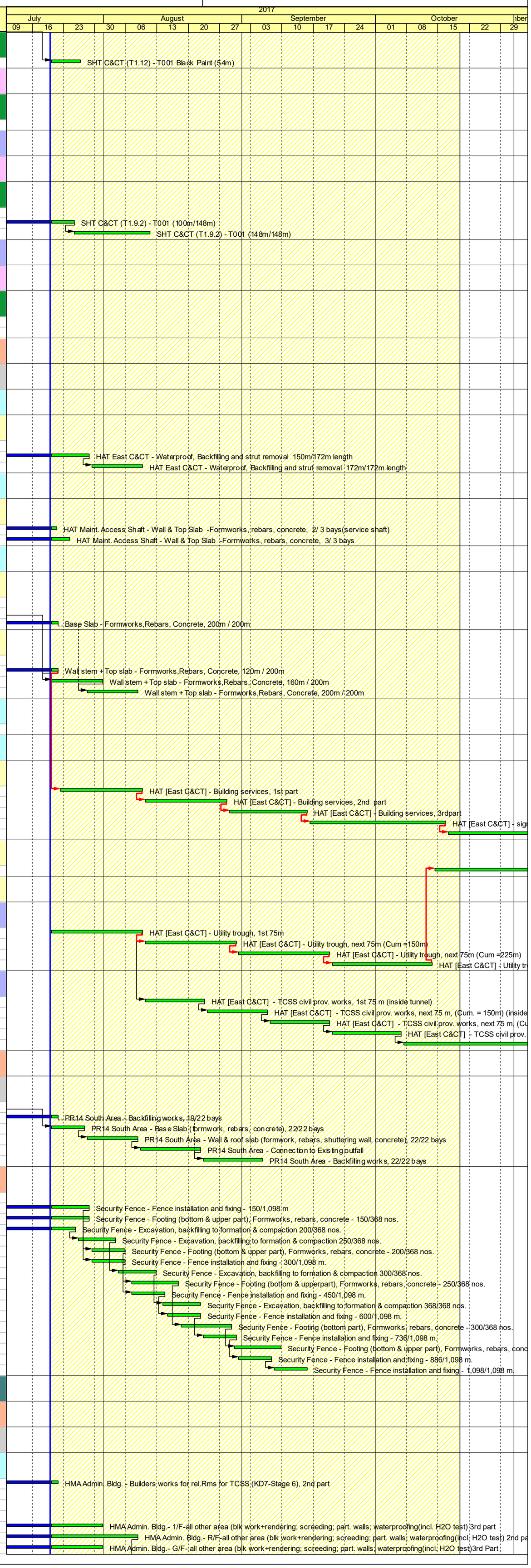
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Aug 2017 to Oct 2017)

Layout HZMB - (3M63 Rolling Prog)

TASK filters: 3M63, HZMB No Level Effort.

Activity ID	Activity Name
	T001 - Black Paint
SHT7715	SHT C&CT (T1.12) - T001 Black Paint (54m)
	T002 RC Structure
	T002 - Utilities Trough
SHT7714	SHT C&CT (T1.12) - T002 Utility Trough, 70/70m
	ELS - Tunnel SHT- C&CT (T1.9.2 Ch 14+452 to Ch 14+597)/(Ch 14+474 to Ch 14+612)
	Excavation & Lateral Support (T1.9.2)
	T001 (1.9.2) - Utilities Trough
SHT1868-825	SHT C&CT (T1.9.2) - T001 (50m/148m)
SHT1868-795	SHT C&CT (T1.9.2) - T001 (100m/148m)
SHT1868-805	SHT C&CT (T1.9.2) - T001 (148m/148m)
	ELS - Tunnel SHT- C&CT (T1.9.3 Ch 14+597to Ch 14+727)/(Ch 14+612 to Ch+14+739)
	RC Works (T1.9.3)
	Backfilling Works
SHT1923-222	T1.9.3 - Waterproofing & Backfilling Works, 2nd Stage
SHT1923-232	T1.9.3 - Waterproofing & Backfilling Works, 3rd Stage
	CCT Works for HAT East w/ Emergency Pedestrian Passage
	HAT Plant Building and Cut & Cover Tunnel, East Area [303m Approx.]
	RC CCT Work (Ch 0+768 to Ch0+940)
	Backfilling (Ch0+768 to Ch0+940)
HAT1869-100	HAT East C&CT - Waterproof, Backfilling and strut removal 100m/172m length
HAT1869-110	HAT East C&CT - Waterproof, Backfilling and strut removal 150m/172m length
HAT1869-120	HAT East C&CT - Waterproof, Backfilling and strut removal 172m/172m length
	RC Works Access Shaft and Columns to GL
	Access Shaft
HAT1071-160	HAT Maint. Access Shaft - Wall & Top Slab -Formworks, rebars, concrete, 2/ 3 bays(service shaft)
HAT1071-150	HAT Maint. Access Shaft - Wall & Top Slab -Formworks, rebars, concrete, 3/ 3 bays
	RC CCT Work(Ch 0+940 to Ch 1+140)
	Base slab(Ch 0+940 to Ch 1+140)
HAT1868-955	Base Slab - Formworks,Rebars, Concrete, 120m / 200m
HAT1868-965	Base Slab - Formworks,Rebars, Concrete, 160m / 200m
HAT1868-975	Base Slab - Formworks,Rebars, Concrete, 200m / 200m
	Wall Stem + Top Slab (Ch 0+940 to Ch 1+140)
HAT1868-995	Wall stem + Top slab - Formworks,Rebars, Concrete, 80m / 200m
HAT1868-1005	Wall stem + Top slab - Formworks,Rebars, Concrete, 120m / 200m
HAT1868-1015	Wall stem + Top slab - Formworks,Rebars, Concrete, 160m / 200m
HAT1868-1025	Wall stem + Top slab - Formworks,Rebars, Concrete, 200m / 200m
	ELS (Ch 0+940 to Ch 1+140)
HAT3320-151	HAT East C&CT - ELS works - 26,068m3 / 26,068m3
	HAT (Ch 0+768 to 1+195 -Utility Trough, E&M, TCSS (Works under Stage 7 & Section 2)
	HAT - E&M & Utilities Installation
A239174	HAT [East C&CT] - Building services, 1st part
A239274	HAT [East C&CT] - Building services, 2nd part
A239284	HAT [East C&CT] - Building services, 3rdpart
A239184	HAT [East C&CT] - signal cables, 1st half
A239314	HAT [East C&CT] - signal cables, remaining half
	HAT - Tunnel Cladding
A239124	HAT [East C&CT] - Cladding brackets, LHS, 1st half
	HAT Utility Trough
	Utility Trough
A238274	HAT [East C&CT] - Utility trough, 1st 75m
A239244	HAT [East C&CT] - Utility trough, next 75m (Cum =150m)
A238214	HAT [East C&CT] - Utility trough, next 75m (Cum =225m)
A238224	HAT [East C&CT] - Utility trough, next 80m (Cum =305m)
	TCSS Civil Prov. Works (under Stage 7)
A239254	HAT [East C&CT] - TCSS civil prov. works, 1st 75 m (inside tunnel)
A239264	HAT [East C&CT] - TCSS civil prov. works, next 75 m, (Cum. = 150m) (inside tunnel)
A238264	HAT [East C&CT] - TCSS civil prov. works, next 75 m, (Cum. = 225m) (inside tunnel)
A239104	HAT [East C&CT] - TCSS civil prov. works, next 80 m, (Cum. = 305m) (inside tunnel)
A239114	HAT [East C&CT] TCSS civil prov. works, east ramp area
	Box Culvert Extension to outfall PR14 (457m Approx.)
	Box Culvert Extension to outfall PR14 (South Area, Bay S1 to S22)
BC1110-162	PR14 South Area - Base Slab (Excavation), 22/22 bays
BC1110-211	PR14 South Area - Backfilling works, 19/22 bays
BC1110-122	PR14 South Area - Base Slab (formwork, rebars, concrete), 22/22 bays
BC1110-142	PR14 South Area - Wall & roof slab (formwork, rebars, shuttering wall, concrete), 22/22 bays
BC1110-181	PR14 South Area - Connection to Existing outfall
BC1110-221	PR14 South Area - Backfilling works, 22/22 bays
	Security Fence
LR.2010-2	Security Fence - Excavation, backfilling to formation & compaction 150/368 nos.
LR.2010-76	Security Fence - Fence installation and fixing - 150/1,098 m
LR.2010-22	Security Fence - Footing (bottom & upper part), Formworks, rebars, concrete - 150/368 nos.
LR.2010-3	Security Fence - Excavation, backfilling to formation & compaction 200/368 nos.
LR.2010-4	Security Fence - Excavation, backfilling to formation & compaction 250/368 nos.
LR.2010-33	Security Fence - Footing (bottom & upper part), Formworks, rebars, concrete - 200/368 nos.
LR.2010-86	Security Fence - Fence installation and fixing - 300/1,098 m.
LR.2010-5	Security Fence - Excavation, backfilling to formation & compaction 300/368 nos.
LR.2010-44	Security Fence - Footing (bottom & upperpart), Formworks, rebars, concrete - 250/368 nos.
LR.2010-96	Security Fence - Fence installation and fixing - 450/1,098 m.
LR.2010-6	Security Fence - Excavation, backfilling to formation & compaction 368/368 nos.
LR.2010-106	Security Fence - Fence installation and fixing - 600/1,098 m.
LR.2010-55	Security Fence - Footing (bottom part), Formworks, rebars, concrete - 300/368 nos.
LR.2010-116	Security Fence - Fence installation and fixing - 736/1,098 m.
LR.2010-66	Security Fence - Footing (bottom & upper part), Formworks, rebars, concrete - 368/368 nos.
LR.2010-126	Security Fence - Fence installation and fixing - 886/1,098 m.
LR.2010-136	Security Fence - Fence installation and fixing - 1,098/1,098 m.
	WORKS IN HAM(HIGHWAY OPERATION & MAINTENANCE AREA) & HAT CCT
	Administration Building
	ABWF & External Works
	Builder Works
HMA4130	HMA Admin. Bldg. - Builders works for rel.Rms for TCSS (KD7-Stage 6), 2nd part
HMA4120	HMA Admin. Bldg.- R/F-all other area (blk work+rendering; screeding; part. walls; waterproofing(incl. H2O test) 1st part
HMA4091	HMA Admin. Bldg.- G/F- all other area (blk work+rendering; screeding; part. walls; waterproofing(incl. H2O test)2nd Part
HMA4101	HMA Admin. Bldg.- 1/F-all other area (blk work+rendering; screeding; part. walls; waterproofing(incl. H2O test) 2nd part
HMA4102	HMA Admin. Bldg.- 1/F-all other area (blk work+rendering; screeding; part. walls; waterproofing(incl. H2O test) 3rd part
HMA4121	HMA Admin. Bldg.- R/F-all other area (blk work+rendering; screeding; part. walls; waterproofing(incl. H2O test) 2nd part
HMA4092	HMA Admin. Bldg.- G/F- all other area (blk work+rendering; screeding; part. walls; waterproofing(incl. H2O test)3rd Part



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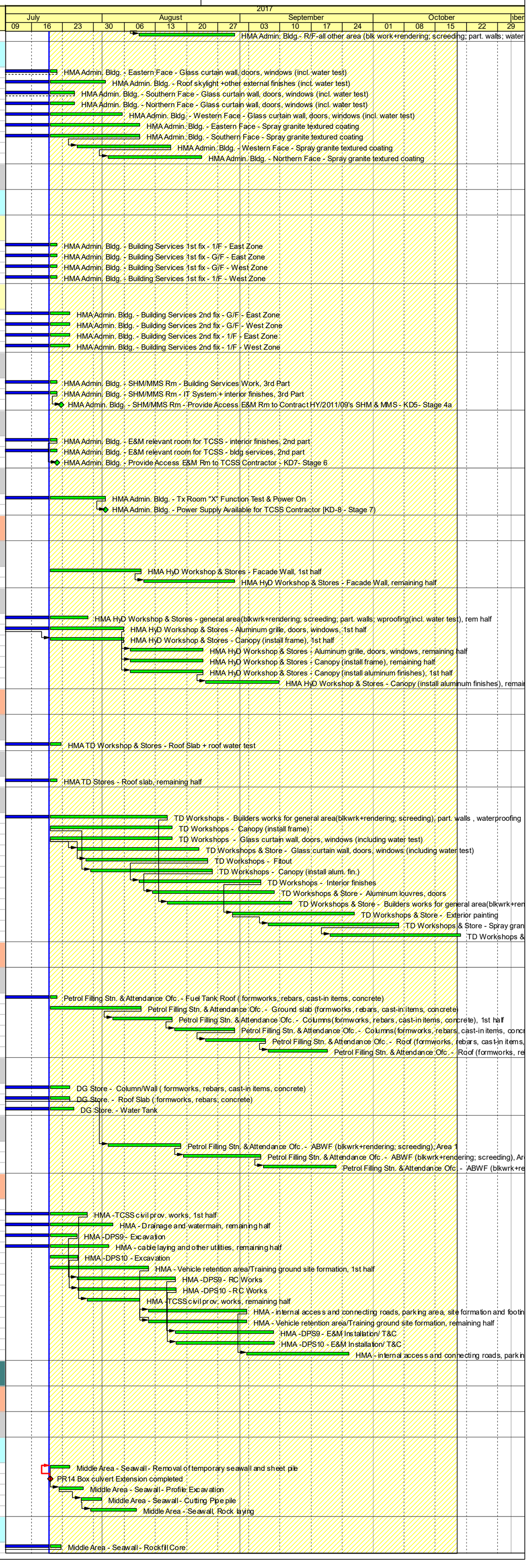
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Aug 2017 to Oct 2017)

Layout HZMB - (3M63 Rolling Prog)

TASK filters: 3M63, HZMB No Level Effort.

Activity ID	Activity Name
HMA4122	HMA Admin. Bldg.- R/F-all other area (blk work+rendering; screeding; part. walls; waterproofing(incl. H2O test),3rd part
External Works	
HMA4040	HMA Admin. Bldg. - Eastern Face - Glass curtain wall, doors, windows (incl. water test)
HMA4200	HMA Admin. Bldg. - Roof skylight +other external finishes (incl. water test)
HMA4070	HMA Admin. Bldg. - Southern Face - Glass curtain wall, doors, windows (incl. water test)
HMA4150	HMA Admin. Bldg. - Northern Face - Glass curtain wall, doors, windows (incl. water test)
HMA4140	HMA Admin. Bldg. - Western Face - Glass curtain wall, doors, windows (incl. water test)
HMA4160	HMA Admin. Bldg. - Eastern Face - Spray granite textured coating
HMA4170	HMA Admin. Bldg. - Southern Face - Spray granite textured coating
HMA4180	HMA Admin. Bldg. - Western Face - Spray granite textured coating
HMA4190	HMA Admin. Bldg. - Northern Face - Spray granite textured coating
E&M Works	
Building Services	
1st Fix	
HMA4214	HMA Admin. Bldg. - Building Services 1st fix - 1/F - East Zone
HMA4210	HMA Admin. Bldg. - Building Services 1st fix - G/F - East Zone
HMA4212	HMA Admin. Bldg. - Building Services 1st fix - G/F - West Zone
HMA4216	HMA Admin. Bldg. - Building Services 1st fix - 1/F - West Zone
2nd Fix	
HMA4218	HMA Admin. Bldg. - Building Services 2nd fix - G/F - East Zone
HMA4220	HMA Admin. Bldg. - Building Services 2nd fix - G/F - West Zone
HMA4222	HMA Admin. Bldg. - Building Services 2nd fix - 1/F - East Zone
HMA4224	HMA Admin. Bldg. - Building Services 2nd fix - 1/F - West Zone
E&M Works and Interface with HY2011/09 for SHM & MMS	
HMA1260-3	HMA Admin. Bldg. - SHM/MMS Rm - Building Services Work, 3rd Part
HMA1260-13	HMA Admin. Bldg. - SHM/MMS Rm - IT System + interior finishes, 3rd Part
HMA1260-21	HMA Admin. Bldg. - SHM/MMS Rm - Provide Access E&M Rm to Contract HY/2011/09's SHM & MMS - KD5- Stage 4a
E&M Works for Relevent Rms and Interface with TCSS Contractor	
HMA1275-81	HMA Admin. Bldg. - E&M relevant room for TCSS - interior finishes, 2nd part
HMA1275-61	HMA Admin. Bldg. - E&M relevant room for TCSS - bldg services, 2nd part
HMA1275-91	HMA Admin. Bldg. - Provide Access E&M Rm to TCSS Contractor - KD7- Stage 6
CLP Installation - Substation X	
HMA4230	HMA Admin. Bldg. - Tx Room "X" Function Test & Power On
HMA4050	HMA Admin. Bldg. - Power Supply Available for TCSS Contractor [KD-8 - Stage 7)
HyD Workshop & Store Building	
Structure Works	
HMA1060-1368	HMA HyD Workshop & Stores - Facade Wall, 1st half
HMA1060-1518	HMA HyD Workshop & Stores - Facade Wall, remaining half
ABWF	
HMA1060-1288	HMA HyD Workshop & Stores - general area(blkwrk+rendering; screeding; part. walls; wproofing(incl. water test), rem half
HMA1060-1298	HMA HyD Workshop & Stores - Aluminum grille, doors, windows, 1st half
HMA1060-1538	HMA HyD Workshop & Stores - Canopy (install frame), 1st half
HMA1060-1308	HMA HyD Workshop & Stores - Aluminum grille, doors, windows, remaining half
HMA1060-1548	HMA HyD Workshop & Stores - Canopy (install frame), remaining half
HMA1060-1558	HMA HyD Workshop & Stores - Canopy (install aluminum finishes), 1st half
HMA1060-1568	HMA HyD Workshop & Stores - Canopy (install aluminum finishes), remaining half
TD Workshop & Store Building	
TD Workshop RC Structure Works	
HMA1060-1428	HMA TD Workshop & Stores - Roof Slab + roof water test
TD Store RC Structure Works	
HMA1060-1628	HMA TD Stores - Roof slab, remaining half
ABWF	
HMA1060-1438	TD Workshops - Builders works for general area(blkwrk+rendering; screeding), part. walls , waterproofing
HMA1060-1498	TD Workshops - Canopy (install frame)
HMA1060-1508	TD Workshops - Glass curtain wall, doors, windows (including water test)
HMA1060-1608	TD Workshops & Store - Glass curtain wall, doors, windows (including water test)
HMA1060-1728	TD Workshops - Fitout
HMA1060-1698	TD Workshops - Canopy (install alum. fin.)
HMA1060-1748	TD Workshops - Interior finishes
HMA1060-1738	TD Workshops & Store - Aluminum louvres, doors
HMA1060-1758	TD Workshops & Store - Builders works for general area(blkwrk+rendering; screeding), part. walls , waterproofing
HMA1060-1768	TD Workshops & Store - Exterior painting
HMA1060-1778	TD Workshops & Store - Spray granite textured coating - Western face
HMA1060-1788	TD Workshops & Store - Spray granite textured coating - Easter face
Petrol Filling Station & Attendance Office/Dangerous Goods Store	
Petrol Filling Station - RC Works	
HMA1060-1448	Petrol Filling Stn. & Attendance Ofc. - Fuel Tank Roof (formworks, rebars, cast-in items, concrete)
HMA1060-1638	Petrol Filling Stn. & Attendance Ofc. - Ground slab (formworks, rebars, cast-in items, concrete)
HMA1060-1648	Petrol Filling Stn. & Attendance Ofc. - Columns(formworks, rebars, cast-in items, concrete), 1st half
HMA1060-1658	Petrol Filling Stn. & Attendance Ofc. - Columns(formworks, rebars, cast-in items, concrete), remaining half
HMA1060-1668	Petrol Filling Stn. & Attendance Ofc. - Roof (formworks, rebars, cast-in items, concrete), 1st half
HMA1060-1678	Petrol Filling Stn. & Attendance Ofc. - Roof (formworks, rebars, cast-in items, concrete), remaining half
DG Store & FAO - RC Works	
HMA1060-1268	DG Store - Column/Wall (formworks, rebars, cast-in items, concrete)
HMA1060-1458	DG Store. - Roof Slab (formworks, rebars, concrete)
HMA1060-1688	DG Store. - Water Tank
ABWF	
HMA1060-1468	Petrol Filling Stn. & Attendance Ofc. - ABWF (blkwrk+rendering; screeding), Area 1
HMA1060-1708	Petrol Filling Stn. & Attendance Ofc. - ABWF (blkwrk+rendering; screeding), Area 2
HMA1060-1718	Petrol Filling Stn. & Attendance Ofc. - ABWF (blkwrk+rendering; screeding), Area 3
External Works (Roadworks etc.)	
HMA3200	HMA - cable laying and other utilities, 1st half
HMA3120	HMA -TCSS civil prov. works, 1st half
HMA3100	HMA - Drainage and watermain, remaining half
HMA3140	HMA -DPS9 - Excavation
HMA3110	HMA - cable laying and other utilities, remaining half
HMA3170	HMA -DPS10 - Excavation
HMA3230	HMA - Vehicle retention area/Training ground site formation, 1st half
HMA3150	HMA -DPS9 - RC Works
HMA3180	HMA -DPS10 - RC Works
HMA3130	HMA -TCSS civil prov. works, remaining half
HMA3210	HMA - internal access and connecting roads, parking area, site formation and footing, 1st half
HMA3240	HMA - Vehicle retention area/Training ground site formation, remaining half
HMA3160	HMA -DPS9 - E&M Installation/ T&C
HMA3190	HMA -DPS10 - E&M Installation/ T&C
HMA3220	HMA - internal access and connecting roads, parking area, site formation and footing, remaining half
WORKS IN MIDDLE AREA CH15+050 to 15+500 (HKLR AT GRADE, HAT MT, BRIDGE A1 & A2)	
Reclamation Works - SWCH 0+960 to 1+400 (AHR 20mPD) & (12.5mPD)	
Seawall Construction (Middle Area) CH 0+980 to CH 1+400 - 420m	
SWCH 0+980 to SWCH 1+030 - 50m (PR14)	
SW1060	Middle Area - Seawall - Removal of temporary seawall and sheet pile
SW1490	PR14 Box culvert Extension completed
SW1070	Middle Area - Seawall - Profile Excavation
SW1080	Middle Area - Seawall - Cutting Pipe pile
SW1090	Middle Area - Seawall, Rock laying
SWCH 1+280 to SWCH 1+400 - 120m	
SW1140	Middle Area - Seawall - Rockfill Core



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Sheet 6 of 9

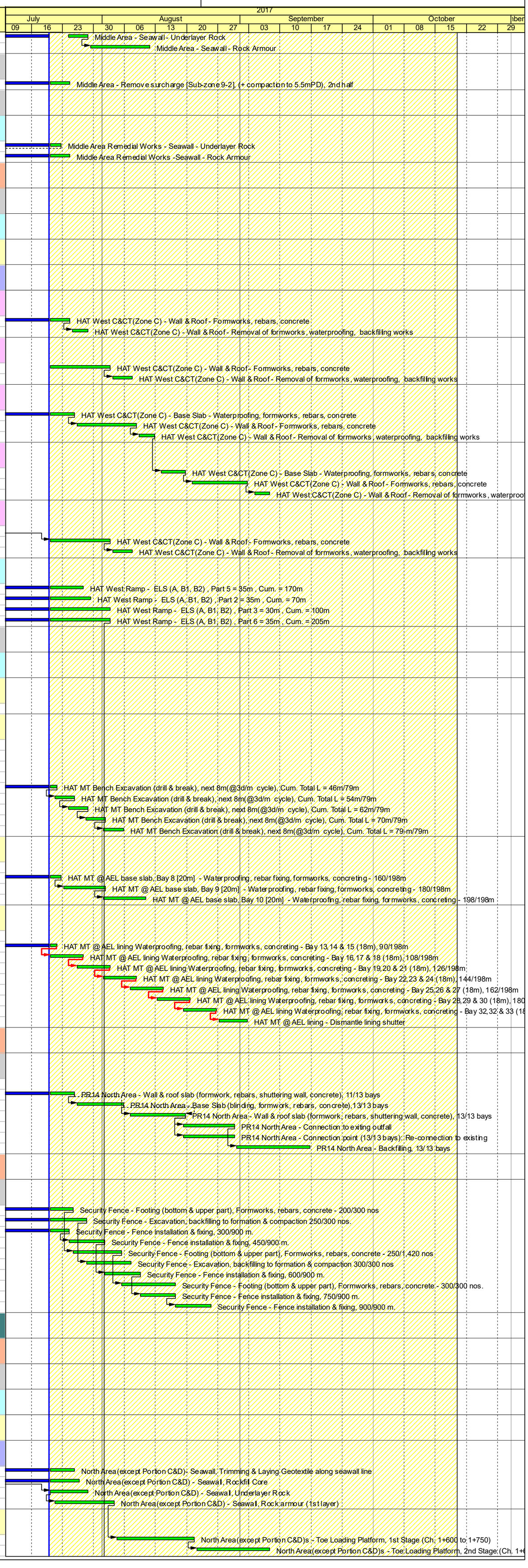
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Aug 2017 to Oct 2017)

Layout HZMB - (3M63 Rolling Prog)

TASK filters: 3M63, HZMB No Level Effort.

Activity ID	Activity Name
SW1150	Middle Area - Seawall - Underlayer Rock
SW1160	Middle Area - Seawall - Rock Armour
Surcharge	
RSC1054-6	Middle Area - Remove surcharge [Sub-zone 9-2], (+ compaction to 5.5mPD), 2nd half
Area 2: Investigation and Remedial Works - SWCH 1+030 to SWCH 1+280 (250m)	
Permanent Seawall	
A1460	Middle Area Remedial Works - Seawall - Underlayer Rock
A1470	Middle Area Remedial Works -Seawall - Rock Armour
Works in HAT Tunnel (Mined Tunnel and West CCT w/ Emergency Pedestrian Passage	
CCT for HAT across Airport Road [200m Approx.]	
Civil & Structural Works	
RC Works- HAT West CCT, Ch 0+270 to Ch 0+560	
RC Works - Zone C (Ch 0+530 to Ch 0+394)	
Ch. 0+430 to Ch. 0+410, L=20 m	
HAT1612-2	HAT West C&CT(Zone C) - Wall & Roof - Formworks, rebars, concrete
HAT1612-3	HAT West C&CT(Zone C) - Wall & Roof - Removal of formworks, waterproofing, backfilling works
Ch. 0+490 to Ch. 0+470, L=20 m	
HAT1612-19	HAT West C&CT(Zone C) - Wall & Roof - Formworks, rebars, concrete
HAT1612-29	HAT West C&CT(Zone C) - Wall & Roof - Removal of formworks, waterproofing, backfilling works
Ch. 0+510 to Ch. 0+490, L=20 m	
HAT1612-39	HAT West C&CT(Zone C) - Base Slab - Waterproofing, formworks, rebars, concrete
HAT1612-49	HAT West C&CT(Zone C) - Wall & Roof - Formworks, rebars, concrete
HAT1612-59	HAT West C&CT(Zone C) - Wall & Roof - Removal of formworks, waterproofing, backfilling works
Ch. 0+530to Ch. 0+510, L=20 m	
HAT1612-69	HAT West C&CT(Zone C) - Base Slab - Waterproofing, formworks, rebars, concrete
HAT1612-79	HAT West C&CT(Zone C) - Wall & Roof - Formworks, rebars, concrete
HAT1612-89	HAT West C&CT(Zone C) - Wall & Roof - Removal of formworks, waterproofing, backfilling works
Ch. 0+410 to Ch. 0+394, L=16 m	
HAT1612-99	HAT West C&CT(Zone C) - Base Slab - Waterproofing, formworks, rebars, concrete
HAT1612-109	HAT West C&CT(Zone C) - Wall & Roof - Formworks, rebars, concrete
HAT1612-119	HAT West C&CT(Zone C) - Wall & Roof - Removal of formworks, waterproofing, backfilling works
HAT West Ramp & Portal (Zone A, B1, B2 = 205m) under Stage 3 TTA	
HAT1612-189	HAT West Ramp - ELS (A, B1, B2) , Part 5 = 35m , Cum. = 170m
HAT1612-159	HAT West Ramp - ELS (A, B1, B2) , Part 2 = 35m , Cum. = 70m
HAT1612-169	HAT West Ramp - ELS (A, B1, B2) , Part 3 = 30m , Cum. = 100m
HAT1612-199	HAT West Ramp - ELS (A, B1, B2) , Part 6 = 35m , Cum. = 205m
Mined Tunnel for HAT underneath AEL & at East Coast Road [198m-Drill & Break)(Ch 0+557 to Ch 0+756]	
HAT Mined Tunnel Works	
Drive from Zone D: HAT Tunnel Excavation - Heading(1st half & 2nd half)	
HAT2015-522	HAT MT heading- Excavation (drill & break), next 2m(@4d/m cycle), Cum. Total L = 49m/49m
Drive from Zone D: HAT Tunnel Excavation - Bench(1st half & 2nd half)	
HAT2080	HAT MT Bench Excavation (drill & break), next 8m(@3d/m cycle), Cum. Total L = 20m/79m
HAT2090	HAT MT Bench Excavation (drill & break), next 8m(@3d/m cycle), Cum. Total L = 24m/79m
HAT3730	HAT MT Bench Excavation (drill & break), next 8m(@3d/m cycle), Cum. Total L = 28m/79m
HAT3740	HAT MT Bench Excavation (drill & break), next 8m(@3d/m cycle), Cum. Total L = 32m/79m
HAT3880	HAT MT Bench Excavation (drill & break), next 8m(@3d/m cycle), Cum. Total L = 46m/79m
HAT3890	HAT MT Bench Excavation (drill & break), next 8m(@3d/m cycle), Cum. Total L = 54m/79m
HAT3900	HAT MT Bench Excavation (drill & break), next 8m(@3d/m cycle), Cum. Total L = 62m/79m
HAT3910	HAT MT Bench Excavation (drill & break), next 8m(@3d/m cycle), Cum. Total L = 70m/79m
HAT3920	HAT MT Bench Excavation (drill & break), next 8m(@3d/m cycle), Cum. Total L = 79-m/79m
Lining - Base Slab (From Shaft 4)	
HAT3770	HAT MT @ AEL base slab, Bay 7 [20m] - Waterproofing, rebar fixing, formworks, concreting - 140/198m
HAT3780	HAT MT @ AEL base slab, Bay 8 [20m] - Waterproofing, rebar fixing, formworks, concreting - 160/198m
HAT3790	HAT MT @ AEL base slab, Bay 9 [20m] - Waterproofing, rebar fixing, formworks, concreting - 180/198m
HAT3800	HAT MT @ AEL base slab, Bay 10 [20m] - Waterproofing, rebar fixing, formworks, concreting - 198/198m
Arch Lining (10m/bay) (From Shaft 4)	
HAT2250	HAT MT @ AEL lining Waterproofing, rebar fixing, formworks, concreting - Bay 10,11 & 12 (18m), 72/198m
HAT3820	HAT MT @ AEL lining Waterproofing, rebar fixing, formworks, concreting - Bay 13,14 & 15 (18m), 90/198m
HAT3830	HAT MT @ AEL lining Waterproofing, rebar fixing, formworks, concreting - Bay 16,17 & 18 (18m), 108/198m
HAT3840	HAT MT @ AEL lining Waterproofing, rebar fixing, formworks, concreting - Bay 19,20 & 21 (18m), 126/198m
HAT3850	HAT MT @ AEL lining Waterproofing, rebar fixing, formworks, concreting - Bay 22,23 & 24 (18m), 144/198m
HAT3860	HAT MT @ AEL lining Waterproofing, rebar fixing, formworks, concreting - Bay 25,26 & 27 (18m), 162/198m
HAT3870	HAT MT @ AEL lining Waterproofing, rebar fixing, formworks, concreting - Bay 28,29 & 30 (18m), 180/198m
HAT3930	HAT MT @ AEL lining Waterproofing, rebar fixing, formworks, concreting - Bay 32,32 & 33 (18m), 198/198m
HAT2260	HAT MT @ AEL lining - Dismantle lining shutter
Box Culvert Extension to Outfall PR9 & PR14	
Box Culvert Ext. to New Outfall PR14 (North Area, Bay N1 to N-13)	
BC1160-14	PR14 North Area - Base Slab (blinding, formwork, rebars, concrete),11/13 bays
BC1160-15	PR14 North Area - Wall & roof slab (formwork, rebars, shuttering wall, concrete), 11/13 bays
BC1160-36	PR14 North Area - Base Slab (blinding, formwork, rebars, concrete),13/13 bays
BC1160-46	PR14 North Area - Wall & roof slab (formwork, rebars, shuttering wall, concrete), 13/13 bays
BC1160-236	PR14 North Area - Connection to exiting outfall
BC1160-56	PR14 North Area - Connection point (13/13 bays): Re-connection to existing
BC1160-266	PR14 North Area - Backfilling, 13/13 bays
Security Fence	
CH 15+050 to CH 15+500, Length = 450 m.	
LR.2010-013	Security Fence - Footing (bottom & upper part), Formworks, rebars, concrete - 200/300 nos
LR.2010-006	Security Fence - Excavation, backfilling to formation & compaction 250/300 nos.
LR.2010-035	Security Fence - Fence installation & fixing, 300/900 m.
LR.2010-045	Security Fence - Fence installation & fixing, 450/900 m.
LR.2010-014	Security Fence - Footing (bottom & upper part), Formworks, rebars, concrete - 250/1,420 nos
LR.2010-115	Security Fence - Excavation, backfilling to formation & compaction 300/300 nos
LR.2010-065	Security Fence - Fence installation & fixing, 600/900 m.
LR.2010-015	Security Fence - Footing (bottom & upper part), Formworks, rebars, concrete - 300/300 nos.
LR.2010-075	Security Fence - Fence installation & fixing, 750/900 m.
LR.2010-085	Security Fence - Fence installation & fixing, 900/900 m.
WORKS IN NORTH AREA - CH 15+500 to CH 16+223 (HKLR AT GRADE & ROADWORKS)	
Reclamation SWCH 1+400 to SWCH 1+830 (incl. Approach Lights Area, 430m Approx.)	
Reclamation SWCH 1+400 to SWCH 1+590)(incl. PR09 Temp. Diversion Area)	
Reclamation SWCH 1+400 to 1+500 (PR09 Temp. Diversion)	
Seawall Construction (Except Portion C & D) CH 1+400 to CH 1+850)	
SWCH 1+400 to SWCH 1+500	
RSC1171	North Area (except Portion C&D)- Seawall, Trimming & Laying Geotextile along seawall line
RSC1181	North Area (except Portion C&D) - Seawall, Rockfill Core
RSC1191	North Area (except Portion C&D) - Seawall, Underlayer Rock
RSC1121	North Area (except Portion C&D) - Seawall, Rock armour (1st layer)
Toe Loading Platform (for Seawall & Reclamation)	
SWTL -120	North Area (except Portion C&D)s - Toe Loading Platform, 1st Stage (Ch. 1+600 to 1+750)
SWTL -220	North Area (except Portion C&D)s - Toe Loading Platform, 2nd Stage (Ch. 1+600 to 1+750)



FILE: 3M63 (Rev.00)

Sheet 7 of 9

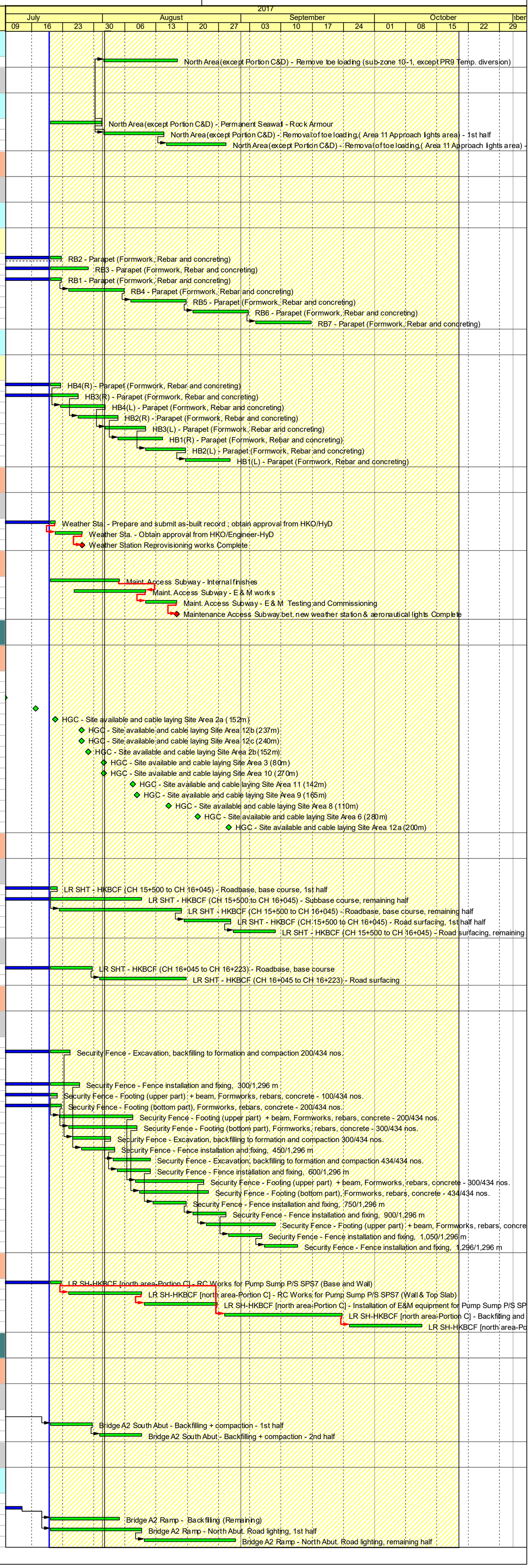
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Aug 2017 to Oct 2017)

Layout HZMB - (3M63 Rolling Prog)

TASK filters: 3M63, HZMB No Level Effort.

Activity ID	Activity Name
	Reclamation SWCH 1+500 to 1+590 (Except PR09 Temp. Diversion Area)
RSC1070-105	North Area(except Portion C&D) - Remove toe loading (sub-zone 10-1, except PR9 Temp. diversion)
	Reclamation SWCH 1+600 to 1+720 (including Approach Lights Area)
	Reclamation SWCH 1+600 to 1+720 (Approach Lights Area - Area 2)
RSC1070-29	North Area(except Portion C&D) - Permanent Seawall - Rock Armour
RSC1070-39	North Area(except Portion C&D) - Removal of toe loading,(Area 11 Approach lights area) - 1st half
RSC1070-390	North Area(except Portion C&D) - Removal of toe loading,(Area 11 Approach lights area) - 2nd half
	"Zone D" - Portion C & D1 From SWCH1+830 to SWCH 2+070
	Portion D1
	Retaining Structure (R1 & R7)
	Parapet (RB1 - RB7)
RA2380	RB2 - Parapet (Formwork, Rebar and concreting)
RA2390	RB3 - Parapet (Formwork, Rebar and concreting)
RA2420	RB1 - Parapet (Formwork, Rebar and concreting)
RA2430	RB4 - Parapet (Formwork, Rebar and concreting)
RA2370	RB5 - Parapet (Formwork, Rebar and concreting)
RA2410	RB6 - Parapet (Formwork, Rebar and concreting)
RA2400	RB7 - Parapet (Formwork, Rebar and concreting)
	Retaining Structure (HB1 - HB4)
	Parapet(HB1 - HB4)
RA2250	HB4(R) - Parapet (Formwork, Rebar and concreting)
RA2260	HB3(R) - Parapet (Formwork, Rebar and concreting)
RA2290	HB4(L) - Parapet (Formwork, Rebar and concreting)
RA2270	HB2(R) - Parapet (Formwork, Rebar and concreting)
RA2440	HB3(L) - Parapet (Formwork, Rebar and concreting)
RA2280	HB1(R) - Parapet (Formwork, Rebar and concreting)
RA2450	HB2(L) - Parapet (Formwork, Rebar and concreting)
RA2460	HB1(L) - Parapet (Formwork, Rebar and concreting)
	Reprovisioning Works
	Weather Station
WS1050	Weather Sta. - Prepare and submit as-built record ; obtain approval from HKO/HyD
WS1060	Weather Sta. - Obtain approval from HKO/Engineer-HyD
WS.170	Weather Station Reprovisioning works Complete
	Maintenance Access Subway bet. New Weather Station & Aeronautical Lights
MAS1060	Maint. Access Subway - Internal finishes
MAS1070	Maint. Access Subway - E & M works
MAS1071	Maint. Access Subway - E & M Testing and Commissioning
MAS1080	Maintenance Access Subway bet. new weather station & aeronautical lights Complete
	T001 / T002 ON GRADE ROADWORKS (Works under Section 1]
	HGC cable laying (by HGC)
BA2.1205-945	HGC - Site available and cable laying Site Area 2c (152m)
BA2.1205-875	HGC - Site available and cable laying Site Area 1 (220m)
BA2.1205-885	HGC - Site available and cable laying Site Area 7 (110m)
BA2.1205-825	HGC - Site available and cable laying Site Area 5 (112m)
BA2.1205-835	HGC - Site available and cable laying Site Area 2a (152m)
BA2.1205-965	HGC - Site available and cable laying Site Area 12b (237m)
BA2.1205-975	HGC - Site available and cable laying Site Area 12c (240m)
BA2.1205-935	HGC - Site available and cable laying Site Area 2b(152m)
BA2.1205-845	HGC - Site available and cable laying Site Area 3 (80m)
BA2.1205-915	HGC - Site available and cable laying Site Area 10 (270m)
BA2.1205-925	HGC - Site available and cable laying Site Area 11 (142m)
BA2.1205-905	HGC - Site available and cable laying Site Area 9 (165m)
BA2.1205-895	HGC - Site available and cable laying Site Area 8 (110m)
BA2.1205-855	HGC - Site available and cable laying Site Area 6 (280m)
BA2.1205-955	HGC - Site available and cable laying Site Area 12a (200m)
	Roadworks
	CH 15+500 to CH 16+045
LR.1205-956	LR SHT - HKBCF (CH 15+500 to CH 16+045) - Roadbase, base course, 1st half
LR.1205-946	LR SHT - HKBCF (CH 15+500 to CH 16+045) - Subbase course, remaining half
LR.1205-966	LR SHT - HKBCF (CH 15+500 to CH 16+045) - Roadbase, base course, remaining half
LR.1205-976	LR SHT - HKBCF (CH 15+500 to CH 16+045) - Road surfacing, 1st half half
LR.1205-1016	LR SHT - HKBCF (CH 15+500 to CH 16+045) - Road surfacing, remaining half
	CH 16+045 to CH 16+223
LR.1205-996	LR SHT - HKBCF (CH 16+045 to CH 16+223) - Roadbase, base course
LR.1205-1006	LR SHT - HKBCF (CH 16+045 to CH 16+223) - Road surfacing
	Security Fence - HKLR
	CH 15+500 to CH 16+150, Length = 650 m
LR.2000-011	Security Fence - Footing (bottom part), Formworks, rebars, concrete - 100/434 nos.
LR.2000-003	Security Fence - Excavation, backfilling to formation and compaction 200/434 nos.
LR.2000-020	Security Fence - Footing (upper part) + beam, Formworks, rebars, concrete - 50/434 nos.
LR.2000-034	Security Fence - Fence installation and fixing, 150/1,296 m
LR.2000-044	Security Fence - Fence installation and fixing, 300/1,296 m
LR.2000-021	Security Fence - Footing (upper part) + beam, Formworks, rebars, concrete - 100/434 nos.
LR.2000-012	Security Fence - Footing (bottom part), Formworks, rebars, concrete - 200/434 nos.
LR.2000-022	Security Fence - Footing (upper part) + beam, Formworks, rebars, concrete - 200/434 nos.
LR.2000-014	Security Fence - Footing (bottom part), Formworks, rebars, concrete - 300/434 nos.
LR.2000-004	Security Fence - Excavation, backfilling to formation and compaction 300/434 nos.
LR.2000-054	Security Fence - Fence installation and fixing, 450/1,296 m
LR.2000-005	Security Fence - Excavation, backfilling to formation and compaction 434/434 nos.
LR.2000-064	Security Fence - Fence installation and fixing, 600/1,296 m
LR.2000-023	Security Fence - Footing (upper part) + beam, Formworks, rebars, concrete - 300/434 nos.
LR.2000-015	Security Fence - Footing (bottom part), Formworks, rebars, concrete - 434/434 nos.
LR.2000-074	Security Fence - Fence installation and fixing, 750/1,296 m
LR.2000-084	Security Fence - Fence installation and fixing, 900/1,296 m
LR.2000-024	Security Fence - Footing (upper part) + beam, Formworks, rebars, concrete - 434/434 nos.
LR.2000-094	Security Fence - Fence installation and fixing, 1,050/1,296 m
LR.2000-104	Security Fence - Fence installation and fixing, 1,296/1,296 m
	Interface w/ HY/2010/02- 16+045 to 16+223.24
A237404	LR SH-HKBCF [north area-Portion C] - RC Works for Pump Sump P/S SPS7 (Base and Wall)
A238294	LR SH-HKBCF [north area-Portion C] - RC Works for Pump Sump P/S SPS7 (Wall & Top Slab)
A238284	LR SH-HKBCF [north area-Portion C] - Installation of E&M equipment for Pump Sump P/S SPS7
LR2540	LR SH-HKBCF [north area-Portion C] - Backfilling and Site formation
LR2550	LR SH-HKBCF [north area-Portion C] - Road alignment formation, 1st half
	NB AIRPORT ROAD WORKS (INCL. BA2) - under Section 2 (Middle to North Area)
	Works in Bridge A2, under Stage 2 TTA, Diversion of SB Airport Rd (Works under Section 2)
	BA2 -South Abutment and Ramp
BA2.1205-495	Bridge A2 South Abut - Retaining Wall Panel 4 - Wall Stem
BA2.1205-395	Bridge A2 South Abut - Backfilling + compaction - 1st half
BA2.1205-485	Bridge A2 South Abut - Backfilling + compaction - 2nd half
	BA2 -North Abutment and Ramp
	BA2 - North Abutment and Ramp - Waterproofing and Backfilling
BA2.1205-1015	Bridge A2 Ramp - North Abut. Parapet, 60nos/80 nos.
BA2.1205-1025	Bridge A2 Ramp - North Abut. Parapet, 80nos/80 nos.
BA2.1205-805	Bridge A2 Ramp - Backfilling (Remaining)
BA2.1205-1035	Bridge A2 Ramp - North Abut. Road lighting, 1st half
BA2.1205-1045	Bridge A2 Ramp - North Abut. Road lighting, remaining half



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Sheet 8 of 9

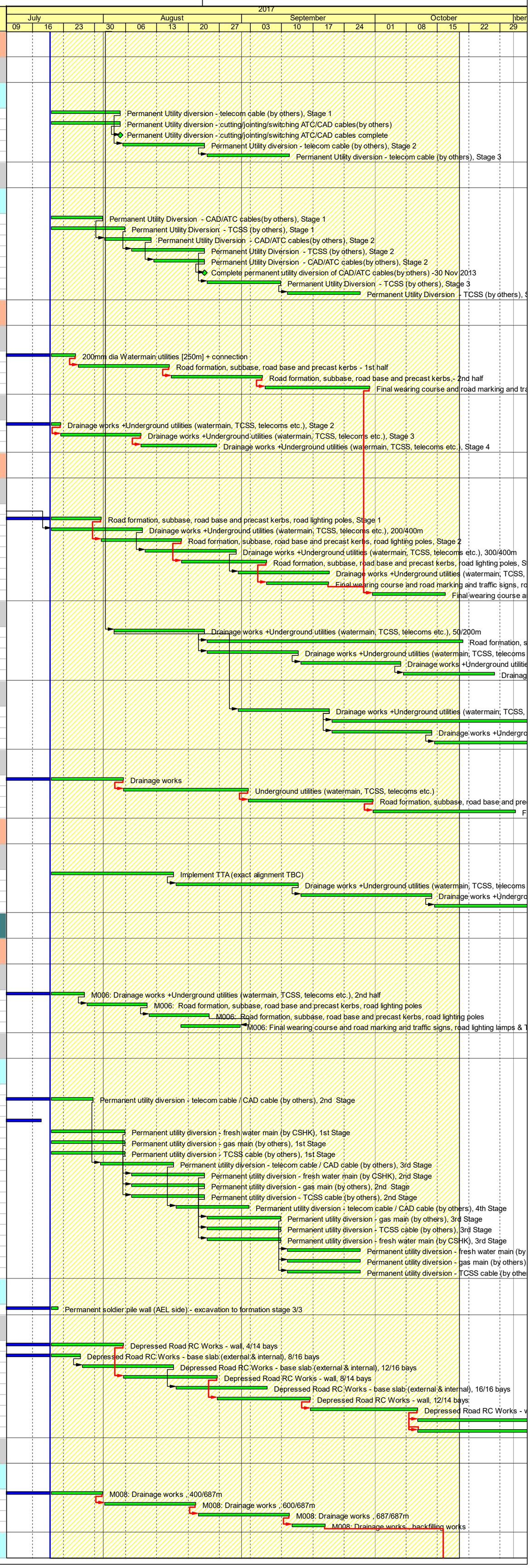
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Aug 2017 to Oct 2017)

Layout HZMB - (3M63 Rolling Prog)

TASK filters: 3M63, HZMB No Level Effort.

Activity ID	Activity Name
	Utility Culverts 1, 2 & 3 (Works under Section 2)
	Utility Culvert No. 1 Ext. across the road leading to Cheong Hong Road [48m Approx.]-1
	Permanent Utility Diversion inside UC 1
UC1.1114	Permanent Utility diversion - telecom cable (by others), Stage 1
UC1.1115	Permanent Utility diversion - cutting/jointing/switching ATC/CAD cables(by others)
UC1.1116	Permanent Utility diversion - cutting/jointing/switching ATC/CAD cables complete
UC1.1163	Permanent Utility diversion - telecom cable (by others), Stage 2
UC1.1173	Permanent Utility diversion - telecom cable (by others), Stage 3
	Utility Culvert No. 2 Ext. near Bridge A2 [15m Approx.] (Works under Section 2)
	Permanent Utility Diversion inside UC2
UC2.1059	Permanent Utility Diversion - CAD/ATC cables(by others), Stage 1
UC2.1058	Permanent Utility Diversion - TCSS (by others), Stage 1
UC2.10591	Permanent Utility Diversion - CAD/ATC cables(by others), Stage 2
UC2.10581	Permanent Utility Diversion - TCSS (by others), Stage 2
UC2.10592	Permanent Utility Diversion - CAD/ATC cables(by others), Stage 2
UC2.1061	Complete permanent utility diversion of CAD/ATC cables(by others) -30 Nov 2013
UC2.10582	Permanent Utility Diversion - TCSS (by others), Stage 3
UC2.105241	Permanent Utility Diversion - TCSS (by others), Stage 4
	Roadworks to be constructed under Stage 2 TTA
	M003 Ch 0+400 to 0+800 (Permanent), L=400m
A2860-24	200mm dia Watermain utilities [250m] + connection
A2870	Road formation, subbase, road base and precast kerbs - 1st half
A237824	Road formation, subbase, road base and precast kerbs,- 2nd half
A2880	Final wearing course and road marking and traffic signs, road lighting lamps & T&C
	M004 (from BA2) Ch 0+600 to 0+730 (Permanent), L=130m
A3370	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), Stage 2
A3460	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), Stage 3
A2920	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), Stage 4
	Roadworks to be constructed under Stage 3 TTA
	M003 Ch 0+800 to 1+200
A3050	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 100/400m
A3340	Road formation, subbase, road base and precast kerbs, road lighting poles, Stage 1
A3051	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 200/400m
A3350	Road formation, subbase, road base and precast kerbs, road lighting poles, Stage 2
A3052	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 300/400m
A3060	Road formation, subbase, road base and precast kerbs, road lighting poles, Stage 3
A3053	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 400/400m
A3470	Final wearing course and road marking and traffic signs, road lighting lamps & T&C, 1st half
A3070	Final wearing course and road marking and traffic signs, road lighting lamps & T&C, remaining half
	M005 Ch 0+000 to 0+200, (Permanent) L= 200m (after HAT Ramp)
A2950	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 50/200m
A2960	Road formation, subbase, road base and precast kerbs, road lighting poles
A2951	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 50/200m
A2952	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 50/200m
A2953	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 50/200m
	M011 Ch 0+350 to 0+546, (Permanent) L= 196m
A2980	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 50/196m
A2990	Road formation, subbase, road base and precast kerbs, road lighting poles
A2981	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 50/196m
A2982	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 50/196m
	Permanent Slip Road (going NB Airport Rd to T1 & T2)
A3010	Drainage works
A3020	Underground utilities (watermain, TCSS, telecoms etc.)
A3030	Road formation, subbase, road base and precast kerbs, road lighting poles
A3040	Final wearing course and road marking and traffic signs, road lighting lamps & T&C
	Remaining Permanent Roadworks under diff. TTA Schemes
	M002 connection to existing road
A3080	Implement TTA (exact alignment TBC)
A3090	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 1st half
A3091	Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), remaining half
A3100	Road formation, subbase, road base and precast kerbs, road lighting poles
	EAST COAST ROAD WORKS (INCL. BA1 & DEP. RD.) - under Section 2 (Middle to North Area)
	Works to be constructed under Stage 3 TTA (divert traffic to BA1 & ex. ECR SB RD/ Future M009)
	Construct M006 (except entrance to ex. Tung Fai Rd)
A4610	M006: Drainage works +Underground utilities (watermain, TCSS, telecoms etc.), 2nd half
A4620	M006: Road formation, subbase, road base and precast kerbs, road lighting poles
A4621	M006: Road formation, subbase, road base and precast kerbs, road lighting poles
A4630	M006: Final wearing course and road marking and traffic signs, road lighting lamps & T&C
	Stage 2 ELS - Permanent Soldier Pile Wall along AEL
	Utilities Permanent Diversion at BA1/Depressed Rd Area
A4230	Permanent utility diversion - CLP cable (by CLP), 4th part
A3911	Permanent utility diversion - telecom cable / CAD cable (by others), 2nd Stage
A4240	Permanent utility diversion - CLP cable (by CLP), 5th part
A4260	Permanent utility diversion - CLP cable (by CLP), 6th part
A3880	Permanent utility diversion - fresh water main (by CSHK), 1st Stage
A3900	Permanent utility diversion - gas main (by others), 1st Stage
A3850	Permanent utility diversion - TCSS cable (by others), 1st Stage
A3841	Permanent utility diversion - telecom cable / CAD cable (by others), 3rd Stage
A3891	Permanent utility diversion - fresh water main (by CSHK), 2nd Stage
A3930	Permanent utility diversion - gas main (by others), 2nd Stage
A3921	Permanent utility diversion - TCSS cable (by others), 2nd Stage
A3961	Permanent utility diversion - telecom cable / CAD cable (by others), 4th Stage
A3901	Permanent utility diversion - gas main (by others), 3rd Stage
A3851	Permanent utility diversion - TCSS cable (by others), 3rd Stage
A3861	Permanent utility diversion - fresh water main (by CSHK), 3rd Stage
A3941	Permanent utility diversion - fresh water main (by CSHK), 4th Stage
A3951	Permanent utility diversion - gas main (by others), 4th Stage
A3971	Permanent utility diversion - TCSS cable (by others), 4th Stage
	Construction - Permanent Soldier Pile Wall
A3960	Permanent soldier pile wall (AEL side) - excavation to formation stage 3/3
	Depressed Road - RC Structural Works (Retaining Wall, Trough and Ramp)
A3450	Depressed Road RC Works - wall, 4/14 bays
A3480	Depressed Road RC Works - base slab (external & internal), 8/16 bays
A3490	Depressed Road RC Works - base slab (external & internal), 12/16 bays
A3510	Depressed Road RC Works - wall, 8/14 bays
A3500	Depressed Road RC Works - base slab (external & internal), 16/16 bays
A3520	Depressed Road RC Works - wall, 12/14 bays
A3530	Depressed Road RC Works - wall, 12/14 bays
A3430	Depressed road - DPS3 RC works
A3380	Depressed road - backfilling and drainage works
	Construct M008, Ch 0+100 to Ch 0+787, L=687m (except Depressed Rd. Area)
	Drainage Works
A4371	M008: Drainage works , 400/687m
A4372	M008: Drainage works , 600/687m
A4373	M008: Drainage works , 687/687m
A4374	M008: Drainage works , backfilling works
	Underground utilities



FILE: 3M63 (Rev.00)

Sheet 9 of 9

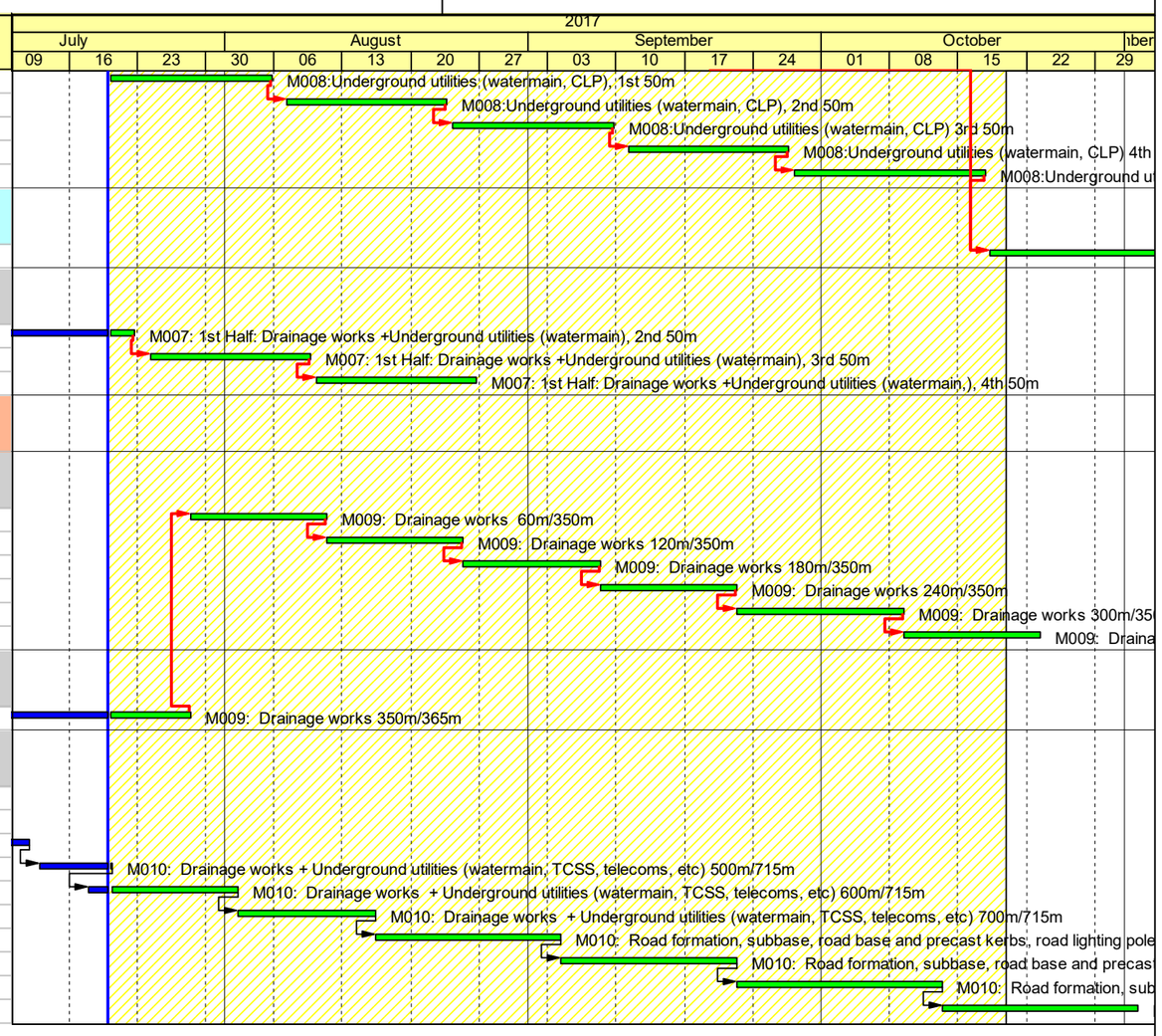
3-Months Rolling Programme (ER Part 5 & SCC 27(9))

(Aug 2017 to Oct 2017)

Layout HZMB - (3M63 Rolling Prog)

TASK filters: 3M63, HZMB No Level Effort.

Activity ID	Activity Name
A237934	M008:Underground utilities (watermain, CLP), 1st 50m
A237974	M008:Underground utilities (watermain, CLP), 2nd 50m
A237984	M008:Underground utilities (watermain, CLP) 3rd 50m
A237994	M008:Underground utilities (watermain, CLP) 4th 50m
A238004	M008:Underground utilities (watermain, CLP) 5th 50m
Roadworks	
A4380	M008: 1st Half: Road formation, subbase, road base and precast kerbs, road lighting poles, 1st part
Construct M007 Ch. 0+100 to Ch. 0+483), L=383m	
A4720	M007: 1st Half: Drainage works +Underground utilities (watermain), 2nd 50m
A4730	M007: 1st Half: Drainage works +Underground utilities (watermain), 3rd 50m
A4900	M007: 1st Half: Drainage works +Underground utilities (watermain,), 4th 50m
Construct Remaining M009 and M010 (at North Area)	
Construct M009 Ch 0+700 to Ch 1+050, L= 350m	
A4790	M009: Drainage works 60m/350m
A238054	M009: Drainage works 120m/350m
A238064	M009: Drainage works 180m/350m
A238074	M009: Drainage works 240m/350m
A238084	M009: Drainage works 300m/350m
A238094	M009: Drainage works 350m/350m
Construct M009 Ch 1+050 to Ch 1+415, L= 365m	
A238104	M009: Drainage works 350m/365m
Construct M010 Ch 0+700 to Ch 1+415, L= 715m	
A4750	M010: Drainage works + Underground utilities (watermain, TCSS, telecoms, etc) 175m/715m
A238164	M010: Drainage works + Underground utilities (watermain, TCSS, telecoms, etc) 350m/715m
A238174	M010: Drainage works + Underground utilities (watermain, TCSS, telecoms, etc) 525m/715m
A238194	M010: Drainage works + Underground utilities (watermain, TCSS, telecoms, etc) 500m/715m
A238204	M010: Drainage works + Underground utilities (watermain, TCSS, telecoms, etc) 600m/715m
A239294	M010: Drainage works + Underground utilities (watermain, TCSS, telecoms, etc) 700m/715m
A4760	M010: Road formation, subbase, road base and precast kerbs, road lighting poles, 175m/715
A4780	M010: Road formation, subbase, road base and precast kerbs, road lighting poles, 350m/715
A4820	M010: Road formation, subbase, road base and precast kerbs, road lighting poles, 5255m/715
A4830	M010: Road formation, subbase, road base and precast kerbs, road lighting poles, 715m/715



APPENDIX C

Calibration Certificates

輝創工程有限公司
Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C165055
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC16-1996) Date of Receipt / 收件日期 : 30 August 2016

Description / 儀器名稱 : Integrating Sound Level Meter
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 2238
Serial No. / 編號 : 2381580
Supplied By / 委託者 : Atkins China Limited
13/F., Wharf T&T Centre, Harbour City,
Tsim Sha Tsui, Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C
Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 8 September 2016

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By 測試 : H T Wong, Technical Officer

Certified By 核證 : K C Lee, Project Engineer

Date of Issue 簽發日期 : 9 September 2016

Sun Creation Engineering Limited – Calibration & Testing Laboratory
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
輝創工程有限公司 – 校正及檢測實驗所
c/o 香港新界屯門興安里一號青山灣機樓四樓
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Certificate of Calibration
校正證書

Certificate No. : C165055
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

2. Self-calibration using laboratory acoustic calibrator was performed before the test from 6.1.1.2 to 6.3.2.

3. The results presented are the mean of 3 measurements at each calibration point.

4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C160077
CL281	Multifunction Acoustic Calibrator	PA160023

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level :

6.1.1 Reference Sound Pressure Level

6.1.1.1 Before Self-calibration

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 130	L_{AFP}	A	F	94.00	1	94.1

6.1.1.2 After Self-calibration

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L_{AFP}	A	F	94.00	1	94.0	± 1.1

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 130	L_{AFP}	A	F	94.00	1	94.0 (Ref.)
				104.00		104.0
				114.00		113.9

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

Certificate of Calibration
校正證書

Certificate No. : C165055
證書編號

6.2 Time Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L_{AFP}	A	F	94.00	1	94.0	Ref.
	L_{ASP}		S			94.0	± 0.3

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L_{AFP}	A	F	94.00	63 Hz	67.9	-26.2 ± 1.5
					125 Hz	77.8	-16.1 ± 1.5
					250 Hz	85.3	-8.6 ± 1.4
					500 Hz	90.8	-3.2 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	95.2	+1.2 ± 1.6
					4 kHz	95.0	+1.0 ± 1.6
					8 kHz	92.9	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.8	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L_{CFP}	C	F	94.00	63 Hz	93.3	-0.8 ± 1.5
					125 Hz	93.9	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.0	0.0 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.2	-0.8 ± 1.6
					8 kHz	91.0	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.9	-6.2 (+3.0 ; -6.0)

Certificate of Calibration
校正證書

Certificate No. : C165055
證書編號

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2379759

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :

94 dB	: 63 Hz - 125 Hz	: ± 0.35 dB
	250 Hz - 500 Hz	: ± 0.30 dB
	1 kHz	: ± 0.20 dB
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	12.5 kHz	: ± 0.70 dB
104 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :
The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

Sun Creation Engineering Limited – Calibration & Testing Laboratory
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輝創工程有限公司
Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C173907
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC17-1606)

Date of Receipt / 收件日期 : 11 July 2017

Description / 儀器名稱 : Integrating Sound Level Meter
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 2238
Serial No. / 編號 : 2800932
Supplied By / 委託者 : Atkins China Limited
13/F., Wharf T&T Centre, Harbour City,
Tsim Sha Tsui, Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C
Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 17 July 2017

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By 測試 : K C Lee
Engineer

Certified By 核證 : H C Chan
Engineer

Date of Issue 簽發日期 : 17 July 2017

Sun Creation Engineering Limited – Calibration & Testing Laboratory
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Certificate of Calibration
校正證書

Certificate No. : C173907
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

2. Self-calibration using the B & K Acoustic Calibrator 4231, S/N : 3004068 was performed before the test.

3. The results presented are the mean of 3 measurements at each calibration point.

4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C170048
CL281	Multifunction Acoustic Calibrator	PA160023

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level :

6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L_{AFP}	A	F	94.00	1	94.1	± 1.1

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 130	L_{AFP}	A	F	94.00	1	94.1 (Ref.)
				104.00		104.1
				114.00		114.1

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L_{AFP}	A	F	94.00	1	94.1	Ref.
	L_{ASP}		S			94.1	± 0.3

Certificate of Calibration
校正證書

Certificate No. : C173907
證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L_{AFP}	A	F	94.00	63 Hz	67.9	-26.2 ± 1.5
					125 Hz	77.9	-16.1 ± 1.5
					250 Hz	85.4	-8.6 ± 1.4
					500 Hz	90.8	-3.2 ± 1.4
					1 kHz	94.1	Ref.
					2 kHz	95.3	+1.2 ± 1.6
					4 kHz	95.1	+1.0 ± 1.6
					8 kHz	92.9	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.8	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (Db)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L_{CFP}	C	F	94.00	63 Hz	93.3	-0.8 ± 1.5
					125 Hz	93.9	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.0	0.0 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.2	-0.8 ± 1.6
					8 kHz	90.9	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

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Certificate of Calibration
校正證書

Certificate No. : C173907
證書編號

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2793199

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :

94 dB	: 63 Hz - 125 Hz	: ± 0.35 dB
	250 Hz - 500 Hz	: ± 0.30 dB
	1 kHz	: ± 0.20 dB
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	12.5 kHz	: ± 0.70 dB
104 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :
Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

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輝創工程有限公司
Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C163909
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC16-1579) Date of Receipt / 收件日期 : 13 July 2016

Description / 儀器名稱 : Acoustical Calibrator
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 4231
Serial No. / 編號 : 3004068
Supplied By / 委託者 : Atkins China Limited
13/F., Wharf T&T Centre, Harbour City,
Tsim Sha Tsui, Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 19 July 2016

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By 測試 : H T Wong, Technical Officer

Certified By 核證 : K C Lee, Project Engineer

Date of Issue 簽發日期 : 19 July 2016

Sun Creation Engineering Limited – Calibration & Testing Laboratory
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
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Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C163909
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment :

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C163709
CL281	Multifunction Acoustic Calibrator	PA160023
TST150A	Measuring Amplifier	C161175

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.2	± 0.2
114 dB, 1 kHz	114.0		

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :
The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

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Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C173906
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC17-1606) Date of Receipt / 收件日期 : 11 July 2017

Description / 儀器名稱 : Acoustical Calibrator
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 4231
Serial No. / 編號 : 3004068
Supplied By / 委託者 : Atkins China Limited
13/F., Wharf T&T Centre, Harbour City,
Tsim Sha Tsui, Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 17 July 2017

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By 測試 : K C Lee
Engineer

Certified By 核證 : H C Chan
Engineer

Date of Issue 簽發日期 : 17 July 2017

Sun Creation Engineering Limited – Calibration & Testing Laboratory
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Certificate of Calibration
校正證書

Certificate No. : C173906
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment :

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C173864
CL281	Multifunction Acoustic Calibrator	PA160023
TST150A	Measuring Amplifier	C161175

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.2	± 0.2
114 dB, 1 kHz	114.0		

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :
Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

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輝創工程有限公司
Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C172617
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC17-1041)

Date of Receipt / 收件日期 : 9 May 2017

Description / 儀器名稱 : Acoustical Calibrator
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 4231
Serial No. / 編號 : 3003246
Supplied By / 委託者 : Atkins China Limited
13/F., Wharf T&T Centre, Harbour City,
Tsim Sha Tsui, Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C
Relative Humidity / 相對濕度 : (55 ± 20)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 16 May 2017

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By 測試 : H T Wong
Technical Officer

Certified By 核證 : K C Lee
Engineer

Date of Issue 簽發日期 : 16 May 2017

Sun Creation Engineering Limited – Calibration & Testing Laboratory
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
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Certificate of Calibration
校正證書

Certificate No. : C172617
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment :

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C163709
CL281	Multifunction Acoustic Calibrator	PA160023
TST150A	Measuring Amplifier	C161175

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.2	± 0.2
114 dB, 1 kHz	114.0		

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :
Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

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ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : AMS5(Ma Wan Chung Village)
Calibrated by : K.F.Ho
Date : 27/06/2017

Sampler
Model : TE-5170
Serial Number : S/N3640

Calibration Orfice and Standard Calibration Relationship
Serial Number : 2454
Service Date : 20 March 2017
Slope (m) : 2.08464
Intercept (b) : -0.036840
Correlation Coefficient(r) : 0.99994

Standard Condition
Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition
Pa (hpa) : 1008
Ta(K) : 304

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1	18 holes	11.4	3.335	1.617	56	55.31
2	13 holes	9.2	2.996	1.455	50	49.38
3	10 holes	6.4	2.499	1.216	43	42.47
4	7 holes	4.2	2.024	0.989	36	35.55
5	5 holes	2.6	1.593	0.782	29	28.64

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b ,Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship

Slope(m):31.368 **Intercept(b): 4.263** **Correlation Coefficient(r): 0.9995**

Checked by: Magnum Fan **Date: 27/06/2017**

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : AMS6(Dragonair Building)
Calibrated by : P.F.Yeung
Date : 26/06/2017

Sampler
Model : TE-5170
Serial Number : S/N3639

Calibration Orfice and Standard Calibration Relationship
Serial Number : 2454
Service Date : 20 March 2017
Slope (m) : 2.08464
Intercept (b) : -0.036840
Correlation Coefficient(r) : 0.99994

Standard Condition
Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition
Pa (hpa) : 1008
Ta(K) : 304

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1	18 holes	11.0	3.276	1.589	58	57.28
2	13 holes	8.4	2.862	1.391	52	51.36
3	10 holes	6.6	2.537	1.235	47	46.42
4	7 holes	4.2	2.024	0.989	40	39.51
5	5 holes	2.5	1.562	0.767	34	33.58

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b ,Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship

Slope(m):28.895 **Intercept(b): 11.128** **Correlation Coefficient(r): 0.9995**

Checked by: Magnum Fan **Date: 27/06/2017**

TISCH ENVIRONMENTAL, INC.
145 SOUTH MIAMI AVE
VILLAGE OF CLEVES, OH
45002
513.467.9000
877.263.7610 TOLL FREE
513.467.9009 FAX

TISCH Environmental

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 20, 2017 Rootsmeter S/N 0438320 Ta (K) - 293
Operator Tisch Orifice I.D. - 2454 Pa (mm) - 759.46

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.4390	3.2	2.00
2	NA	NA	1.00	1.0240	6.4	4.00
3	NA	NA	1.00	0.9170	7.9	5.00
4	NA	NA	1.00	0.8730	8.8	5.50
5	NA	NA	1.00	0.7200	12.8	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0120	0.7033	1.4257		0.9958	0.6920	0.8784
1.0078	0.9842	2.0163		0.9916	0.9683	1.2423
1.0057	1.0967	2.2543		0.9895	1.0791	1.3889
1.0045	1.1507	2.3643		0.9884	1.1322	1.4567
0.9992	1.3878	2.8514		0.9831	1.3654	1.7568
Qstd slope (m) =		2.08464		Qa slope (m) =		1.30537
intercept (b) =		-0.03684		intercept (b) =		-0.02270
coefficient (r) =		0.99994		coefficient (r) =		0.99994
y axis = SQRT[H2O(Pa/760)(298/Ta)]				y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]
Qa = Va/Time

For subsequent flow rate calculations:

Qstd = 1/m{[SQRT(H2O(Pa/760)(298/Ta))]- b}
Qa = 1/m{[SQRT H2O(Ta/Pa)]- b}

EQUIPMENT CALIBRATION RECORD

Type :	Laser Dust Monitor
Manufacturer / Brand :	SIBATA
Model No.:	LD-3B
Equipment No.:	LD-3B-002
Serial No.:	974350
Sensitivity Adjustment Scale Setting :	622 CPM

Standard Equipment

Equipment :	MFC High Volume Air Sampler
Venue :	Tung Chung Pier
Model No.:	TE-5170 Total Suspended Particulate
Serial No.:	S/N3641
Previous Calibration Date	29-09-2016

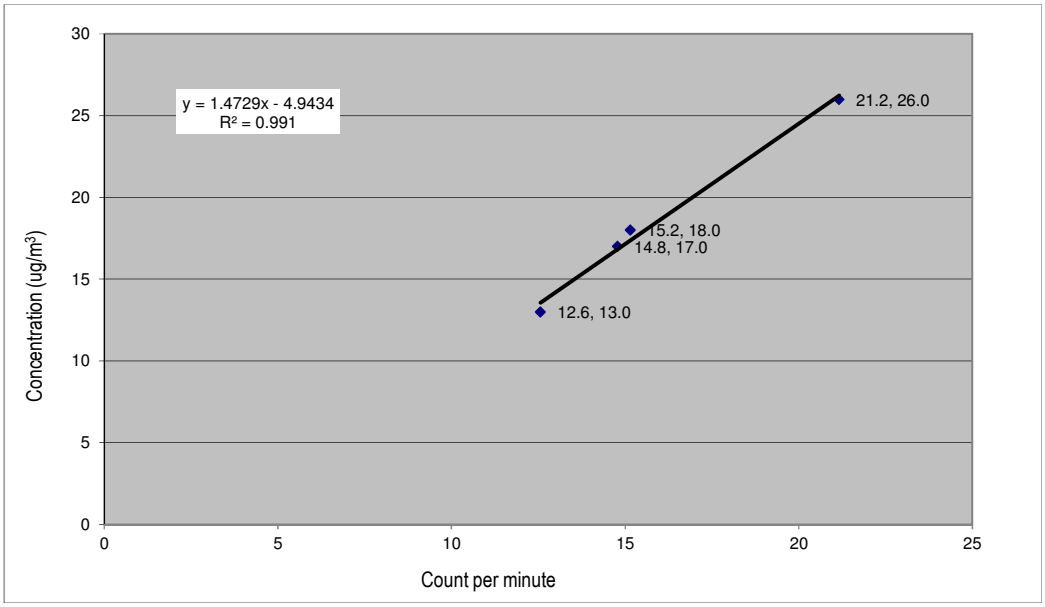
Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration) :	622 CPM
Sensitivity Adjustment Scale Setting (After Calibration) :	622 CPM

Hour	Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m^3) Y-axis	Total Count	Count/Minute X-axis
				Temp (^oC)	R.H. (%)			
1	2016-10-26	13:59	14:59	30.7	64%	18	909	15.15
2	2016-10-26	15:12	16:12	30.9	59%	13	754	12.57
3	2016-10-26	16:21	17:21	30.9	61%	17	887	14.78
4	2016-10-26	17:30	18:30	30.9	61%	26	1270	21.17

Be Linear Regression of Y or X
Slope (K-factor): 1.4729 Intercept,b: -4.943
Correlation coefficient (R): 0.9955

Remark:



Recorded by: Ray Cheng Signature: Date: 25-11-2016

Checked by: Ketih Chau Signature: Date: 25-11-2016

EQUIPMENT CALIBRATION RECORD

Type :	Laser Dust Monitor
Manufacturer / Brand :	SIBATA
Model No.:	LD-3B
Equipment No.:	LD-3B-003
Serial No.:	276018
Sensitivity Adjustment Scale Setting :	799 CPM

Standard Equipment

Equipment :	MFC High Volume Air Sampler
Venue :	Tung Chung Pier
Model No.:	TE-5170 Total Suspended Particulate
Serial No.:	S/N3641
Previous Calibration Date	29/09/2016

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration) :	799 CPM
Sensitivity Adjustment Scale Setting (After Calibration) :	799 CPM

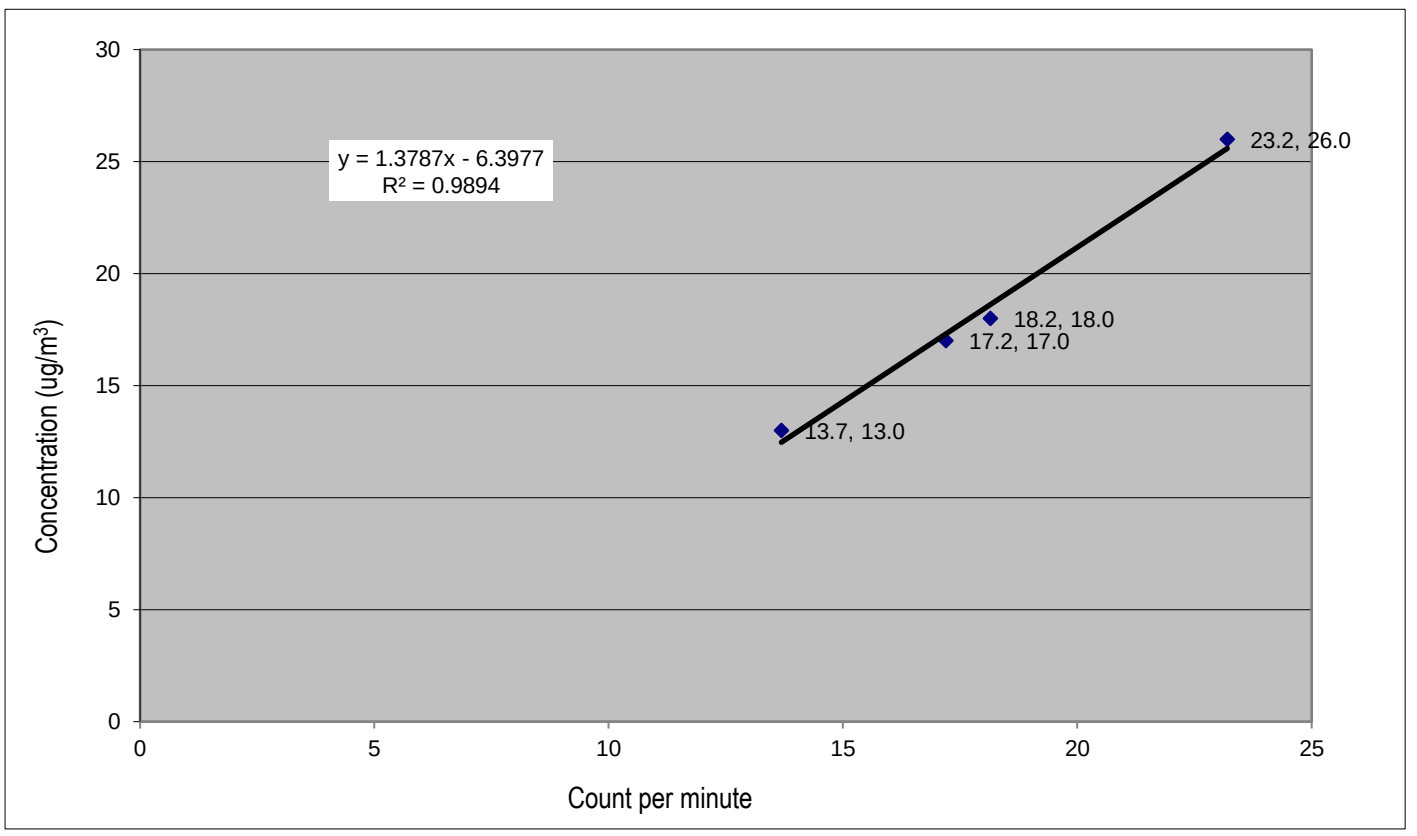
Hour	Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m^3) Y-axis	Total Count	Count/Minute X-axis
				Temp (^{o}C)	R.H. (%)			
1	26/10/2016	13:59	14:59	30.7	64%	18	1089	18.15
2	26/10/2016	15:12	16:12	30.9	59%	13	821	13.68
3	26/10/2016	16:21	17:21	30.9	61%	17	1032	17.20
4	26/10/2016	17:30	18:30	30.9	61%	26	1392	23.20

Be Linear Regression of Y or X

Slope (K-factor): 1.3787 Intercept,b: -6.398

Correlation coefficient : 0.9947

Remark:



Recorded by: Ray Cheng Signature: Date: 25/11/2016

Checked by: Ketih Chau Signature: Date: 25/11/2016

APPENDIX D

Monitoring Schedule

July 2017

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Date						**1-Jul**	**2-Jul**
						Holiday	
Date	**3-Jul**	**4-Jul**	**5-Jul**	**6-Jul**	**7-Jul**	**8-Jul**	**9-Jul**
	AMS5-1hr, NMS5, AMS6-1hr	AMS5/AMS6 - 24hr Dust		AMS5/AMS6 - 24hr Dust	AMS5-1hr, AMS6-1hr		
Date	**10-Jul**	**11-Jul**	**12-Jul**	**13-Jul**	**14-Jul**	**15-Jul**	**16-Jul**
			AMS5/AMS6 - 24hr Dust	AMS5-1hr, NMS5, AMS6-1hr			
Date	**17-Jul**	**18-Jul**	**19-Jul**	**20-Jul**	**21-Jul**	**22-Jul**	**23-Jul**
		AMS5/AMS6 - 24hr Dust	AMS5-1hr, NMS5, AMS6-1hr	1st Dolphin Monitoring (See Remark 1)			
Date	**24-Jul**	**25-Jul**	**26-Jul**	**27-Jul**	**28-Jul**	**29-Jul**	**30-Jul**
	AMS6 - 24hr Dust 1st Dolphin Monitoring	AMS5-1hr, NMS5 AMS6-1hr	AMS5 - 24hr Dust (See Remark 2)	2nd Dolphin Monitoring (See Remark 1)	AMS5/AMS6 - 24hr Dust 2nd Dolphin Monitoring		
Date	**31-Jul**						
	AMS5-1hr, NMS5, AMS6-1hr						

Remarks:
1) Due to boat availability, the dolphin monitoring schedule was rescheduled from 21 July 2017 to 20 July 2017, and from 26 July 2017 to 27 July 2017.
2) Due to motor failure of high volume sampler, the 24-hour TSP monitoring at Station AMS5 (Ma Wan Chung Village) was rescheduled from 24 July 2017 to 26 July 2017.

August 2017

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Date		**1-Aug**	**2-Aug**	**3-Aug**	**4-Aug**	**5-Aug**	**6-Aug**
			Water Quality Monitoring	AMS5/AMS6 - 24hr Dust	AMS5-1hr, AMS6-1hr Water Quality Monitoring		
Date	**7-Aug**	**8-Aug**	**9-Aug**	**10-Aug**	**11-Aug**	**12-Aug**	**13-Aug**
		Water Quality Monitoring	AMS5/AMS6 - 24hr Dust	AMS5-1hr, NMS5, AMS6-1hr 1st Dolphin Monitoring Water Quality Monitoring		Water Quality Monitoring	
Date	**14-Aug**	**15-Aug**	**16-Aug**	**17-Aug**	**18-Aug**	**19-Aug**	**20-Aug**
	Water Quality Monitoring	AMS5/AMS6 - 24hr Dust	AMS5-1hr, NMS5, AMS6-1hr 1st Dolphin Monitoring Water Quality Monitoring		Water Quality Monitoring		
Date	**21-Aug**	**22-Aug**	**23-Aug**	**24-Aug**	**25-Aug**	**26-Aug**	**27-Aug**
	AMS5/AMS6 - 24hr Dust 2nd Dolphin Monitoring Water Quality Monitoring	AMS5-1hr, NMS5, AMS6-1hr	Water Quality Monitoring		AMS5/AMS6 - 24hr Dust 2nd Dolphin Monitoring Water Quality Monitoring		
Date	**28-Aug**	**29-Aug**	**30-Aug**	**31-Aug**			
	AMS5-1hr, NMS5, AMS6-1hr Water Quality Monitoring		Water Quality Monitoring	AMS5/AMS6 - 24hr Dust			

APPENDIX E

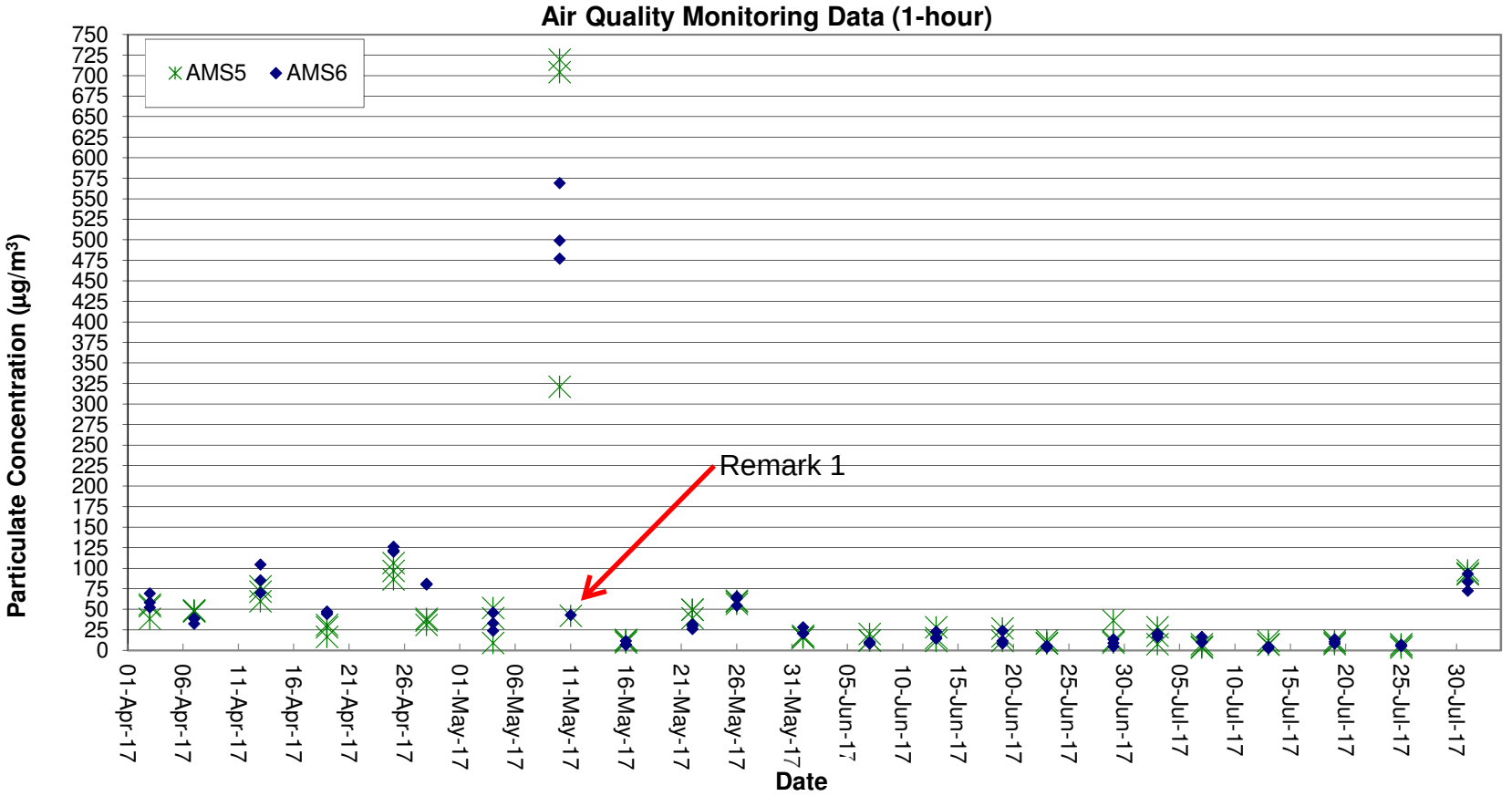
Monitoring Data and Graphical Plots

Project	Works	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
HKLR	HY/2011/03	2017-07-03	AMS5	09:00	1-hr TSP	8	ug/m^3
HKLR	HY/2011/03	2017-07-03	AMS5	10:00	1-hr TSP	18	ug/m^3
HKLR	HY/2011/03	2017-07-03	AMS5	11:00	1-hr TSP	28	ug/m^3
HKLR	HY/2011/03	2017-07-07	AMS5	13:00	1-hr TSP	5	ug/m^3
HKLR	HY/2011/03	2017-07-07	AMS5	14:00	1-hr TSP	3	ug/m^3
HKLR	HY/2011/03	2017-07-07	AMS5	15:00	1-hr TSP	8	ug/m^3
HKLR	HY/2011/03	2017-07-13	AMS5	09:00	1-hr TSP	7	ug/m^3
HKLR	HY/2011/03	2017-07-13	AMS5	10:00	1-hr TSP	8	ug/m^3
HKLR	HY/2011/03	2017-07-13	AMS5	11:00	1-hr TSP	11	ug/m^3
HKLR	HY/2011/03	2017-07-19	AMS5	09:03	1-hr TSP	11	ug/m^3
HKLR	HY/2011/03	2017-07-19	AMS5	10:03	1-hr TSP	9	ug/m^3
HKLR	HY/2011/03	2017-07-19	AMS5	11:03	1-hr TSP	8	ug/m^3
HKLR	HY/2011/03	2017-07-25	AMS5	08:50	1-hr TSP	7	ug/m^3
HKLR	HY/2011/03	2017-07-25	AMS5	09:50	1-hr TSP	5	ug/m^3
HKLR	HY/2011/03	2017-07-25	AMS5	10:50	1-hr TSP	3	ug/m^3
HKLR	HY/2011/03	2017-07-31	AMS5	09:00	1-hr TSP	97	ug/m^3
HKLR	HY/2011/03	2017-07-31	AMS5	10:00	1-hr TSP	92	ug/m^3
HKLR	HY/2011/03	2017-07-31	AMS5	11:00	1-hr TSP	94	ug/m^3
HKLR	HY/2011/03	2017-07-04	AMS5	08:00	24-hr TSP	43	ug/m^3
HKLR	HY/2011/03	2017-07-06	AMS5	08:00	24-hr TSP	28	ug/m^3
HKLR	HY/2011/03	2017-07-12	AMS5	08:00	24-hr TSP	48	ug/m^3
HKLR	HY/2011/03	2017-07-18	AMS5	08:00	24-hr TSP	39	ug/m^3
HKLR	HY/2011/03	2017-07-26 (See Remark 1)	AMS5	12:25	24-hr TSP	4	ug/m^3
HKLR	HY/2011/03	2017-07-28	AMS5	10:50	24-hr TSP	53	ug/m^3
HKLR	HY/2011/03	2017-07-03	AMS6	13:00	1-hr TSP	20	ug/m^3
HKLR	HY/2011/03	2017-07-03	AMS6	14:00	1-hr TSP	16	ug/m^3
HKLR	HY/2011/03	2017-07-03	AMS6	15:00	1-hr TSP	19	ug/m^3
HKLR	HY/2011/03	2017-07-07	AMS6	09:00	1-hr TSP	16	ug/m^3
HKLR	HY/2011/03	2017-07-07	AMS6	10:00	1-hr TSP	10	ug/m^3
HKLR	HY/2011/03	2017-07-07	AMS6	11:00	1-hr TSP	10	ug/m^3
HKLR	HY/2011/03	2017-07-13	AMS6	13:00	1-hr TSP	5	ug/m^3
HKLR	HY/2011/03	2017-07-13	AMS6	14:00	1-hr TSP	4	ug/m^3
HKLR	HY/2011/03	2017-07-13	AMS6	15:00	1-hr TSP	2	ug/m^3
HKLR	HY/2011/03	2017-07-19	AMS6	13:03	1-hr TSP	11	ug/m^3
HKLR	HY/2011/03	2017-07-19	AMS6	14:03	1-hr TSP	13	ug/m^3
HKLR	HY/2011/03	2017-07-19	AMS6	15:03	1-hr TSP	8	ug/m^3
HKLR	HY/2011/03	2017-07-25	AMS6	13:05	1-hr TSP	5	ug/m^3
HKLR	HY/2011/03	2017-07-25	AMS6	14:05	1-hr TSP	5	ug/m^3
HKLR	HY/2011/03	2017-07-25	AMS6	15:05	1-hr TSP	7	ug/m^3
HKLR	HY/2011/03	2017-07-31	AMS6	13:00	1-hr TSP	93	ug/m^3
HKLR	HY/2011/03	2017-07-31	AMS6	14:00	1-hr TSP	83	ug/m^3
HKLR	HY/2011/03	2017-07-31	AMS6	15:00	1-hr TSP	72	ug/m^3
HKLR	HY/2011/03	2017-07-04	AMS6	08:00	24-hr TSP	27	ug/m^3
HKLR	HY/2011/03	2017-07-06	AMS6	08:00	24-hr TSP	31	ug/m^3
HKLR	HY/2011/03	2017-07-12	AMS6	08:00	24-hr TSP	53	ug/m^3
HKLR	HY/2011/03	2017-07-18	AMS6	08:00	24-hr TSP	23	ug/m^3
HKLR	HY/2011/03	2017-07-24	AMS6	08:00	24-hr TSP	33	ug/m^3
HKLR	HY/2011/03	2017-07-28	AMS6	08:00	24-hr TSP	118	ug/m^3

Remark:

1) Due to motor failure, the 24-hour TSP monitoring at AMS5 was rescheduled from 24 July 2017 to 26 July 2017.

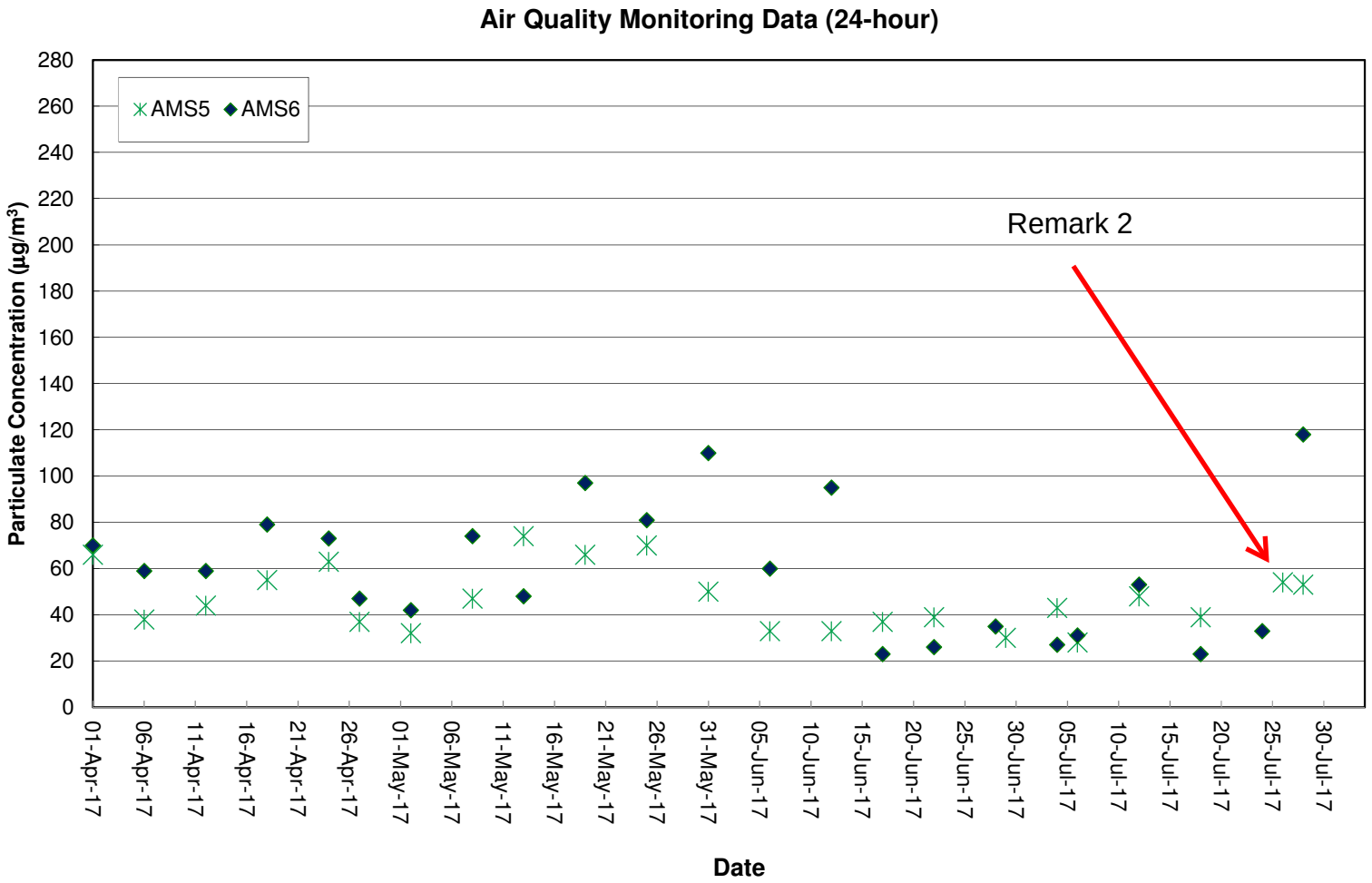
Graphical Plot of 1-hour TSP at AMS5 and AMS6



Remark:

1) Due to the Action/Limit level exceedances of 1-hr TSP were recorded at AMS5 and AMS6 on 10 May 2017, an additional 1-hr TSP monitoring was conducted on 11 May 2017 at AMS5 and AMS6 respectively.

Graphical Plot of 24-hour TSP at AMS5 and AMS6



Remarks:

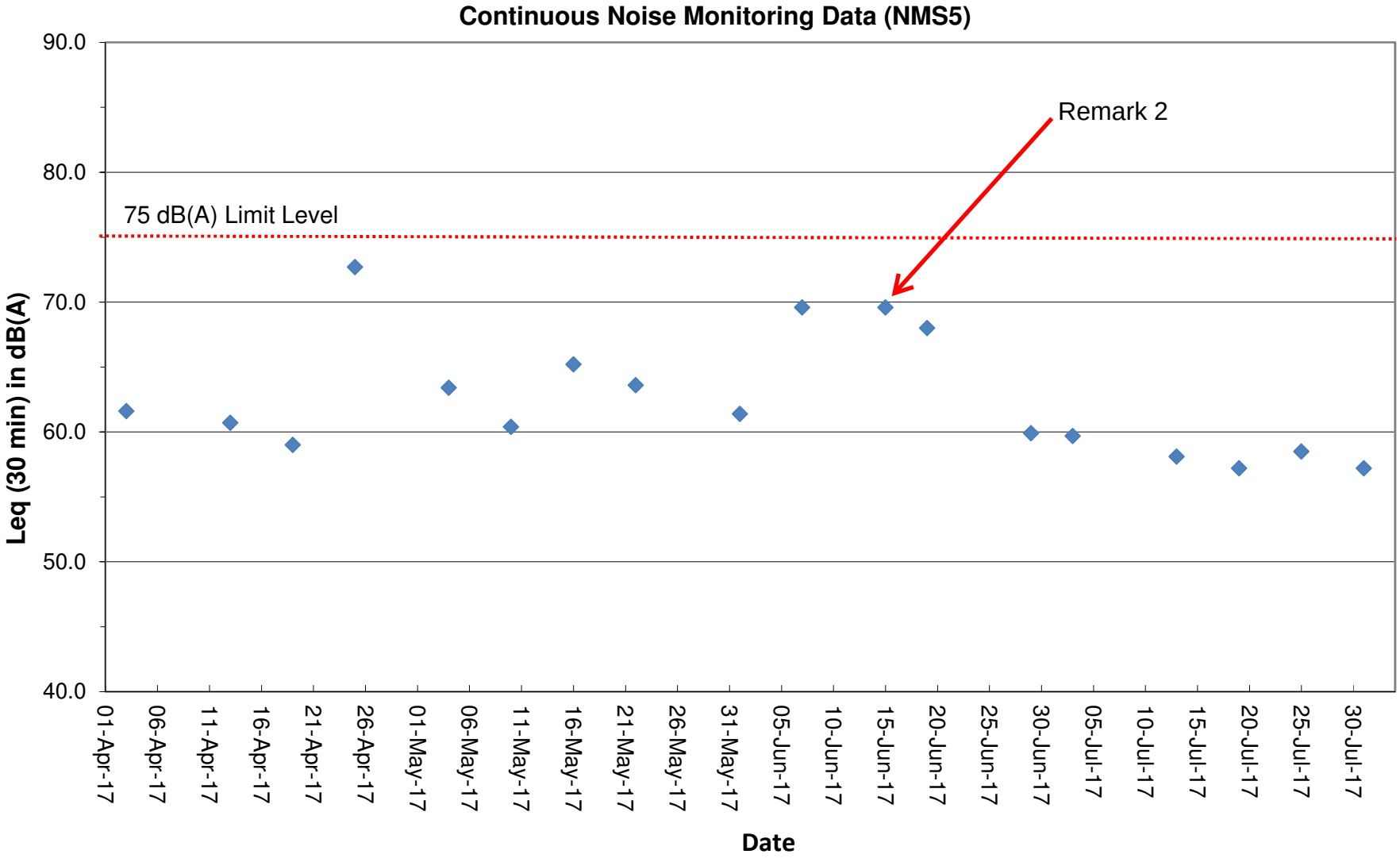
1) Due to power supply failure, the 24-hour TSP monitoring at AMS5 was rescheduled from 28 June 2017 to 29 June 2017.

2) Due to motor failure, the 24-hour TSP monitoring at AMS5 was rescheduled from 24 July 2017 to 26 July 2017.

Project	Works	Date (yyyy-mm-dd)	Station	Start Time	Wind Speed, m/s	1st set 5mins		2nd set 5mins		3rd set 5mins		4th set 5mins		5th set 5mins		6th set 5mins		Overall (30mins)*		Unit
HKLR	HY/2011/03	2017-07-03	NMS5	09:18	<5	Leq:	56.2	Leq:	56.4	Leq:	56.0	Leq:	56.8	Leq:	56.7	Leq:	57.8	Leq:	59.7	dB(A)
						L10:	59.0	L10:	59.0	L10:	58.0	L10:	59.0	L10:	59.5	L10:	61.0	L10:	62.3	
						L90:	51.5	L90:	52.0	L90:	52.5	L90:	52.0	L90:	51.5	L90:	51.5	L90:	54.8	
HKLR	HY/2011/03	2017-07-13	NMS5	10:23	<5	Leq:	55.3	Leq:	54.7	Leq:	53.2	Leq:	54.4	Leq:	55.2	Leq:	57.0	Leq:	58.1	dB(A)
						L10:	57.0	L10:	57.0	L10:	56.0	L10:	57.5	L10:	58.5	L10:	60.5	L10:	61.0	
						L90:	50.0	L90:	51.0	L90:	49.5	L90:	50.0	L90:	50.0	L90:	49.5	L90:	53.0	
HKLR	HY/2011/03	2017-07-19	NMS5	09:21	<5	Leq:	54.4	Leq:	53.5	Leq:	53.9	Leq:	54.7	Leq:	55.1	Leq:	53.5	Leq:	57.2	dB(A)
						L10:	57.0	L10:	56.0	L10:	57.0	L10:	58.0	L10:	58.0	L10:	56.5	L10:	60.1	
						L90:	49.5	L90:	49.5	L90:	49.0	L90:	49.5	L90:	51.0	L90:	49.5	L90:	52.7	
HKLR	HY/2011/03	2017-07-25	NMS5	09:05	<5	Leq:	56.0	Leq:	55.2	Leq:	57.6	Leq:	55.3	Leq:	55.0	Leq:	52.3	Leq:	58.5	dB(A)
						L10:	60.0	L10:	58.5	L10:	61.5	L10:	58.5	L10:	58.5	L10:	54.0	L10:	62.0	
						L90:	49.0	L90:	49.0	L90:	48.5	L90:	49.0	L90:	48.5	L90:	49.0	L90:	51.8	
HKLR	HY/2011/03	2017-07-31	NMS5	09:16	<5	Leq:	55.2	Leq:	54.0	Leq:	54.2	Leq:	54.9	Leq:	53.2	Leq:	53.5	Leq:	57.2	dB(A)
						L10:	57.5	L10:	55.5	L10:	55.5	L10:	57.0	L10:	54.5	L10:	55.0	L10:	59.0	
						L90:	51.5	L90:	51.5	L90:	52.0	L90:	51.5	L90:	50.5	L90:	51.0	L90:	54.4	

Remark:
(1)* A facade correction of +3 dB(A) was applied to the measured noise level.

Graphical Plot of Noise Levels at NMS5



Remarks:

(1) A facade correction of +3 dB(A) was applied to the measured noise level.

(2) Due to weather condition, the noise monitoring schedule was rescheduled from 13 June 2017 to 15 June 2017.

APPENDIX F

Event and Action Plan

Event and Action Plan for Air Quality

Event	Action			
	ET	IEC	SO	Contractor
Exceedance of Action Level for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and SO; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
Exceedance of Action Level for two or more consecutive samples	1. Identify source; 2. Inform IEC and SO; 3. Advise the SO on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and SO; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor;	1. Submit proposals for remedial to SO within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Event	Action			
	ET	**IEC**	**SO**	**Contractor**
Exceedance of Limit Level for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform SO, Contractor and 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 SO informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the SO on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Exceedance of Limit Level for two or more consecutive samples	1. Notify IEC, SO, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and SO to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst SO, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. 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.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the SO until the exceedance is abated.

Event and Action Plan for Noise

Event	Action			
	ET	IEC	SO	Contractor
Exceedance of Action Level	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Notify IEC and Contractor; 3. Report the results of investigation to the IEC, SO and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the SO accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented	1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Exceedance of Limit Level	1. Identify source; 2. Inform IEC, SO, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, SO and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst SO, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. 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.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the SO until the exceedance is abated.

Event and Action Plan for Water Quality

Event	Action			
	ET Leader	IEC	SO	Contractor
Action level being exceeded by one sampling day	1. Repeat in situ measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor and SO; 4. Check monitoring data, all plant, equipment and Contractor's working methods.	1. Check monitoring data submitted by ET and Contractor's working methods.	1. Confirm receipt of notification of non-compliance in writing; 2. Notify Contractor.	1. Inform the SO and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SO and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5; Ensure mitigation measures are implemented; 6. Increase the monitoring frequency to daily until no exceedance of Action level.	1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the SO accordingly; 4. Supervise the implementation of mitigation measures.	1. Discuss with IEC on the proposed mitigation measures; 2. Ensure mitigation measures are properly implemented; 3. Assess the effectiveness of the implemented mitigation measures.	1. Inform the Engineer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of additional mitigation measures to SO within 3 working days of notification and discuss with ET, IEC and SO; 5. Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SO and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, SO and Contractor;	1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the SO accordingly.	1. Confirm receipt of notification of failure in writing; 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to review the working methods.	1. Inform the SO and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of mitigation measures to SO within 3 working days of notification and discuss with ET, IEC and SO.

Event	Action			
	ET Leader	IEC	SO	Contractor
Limit level being exceeded by two or more consecutive sampling days	1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SO and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, SO and Contractor; 6. Ensure mitigation measures are implemented;	1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the SO accordingly; 4. Supervise the implementation of mitigation measures.	1. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Ensure mitigation measures are properly implemented; 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level.	1. Take immediate action to avoid further exceedance; 2. Submit proposal of mitigation measures to SO within 3 working days of notification and discuss with ET, IEC and SO; 3. Implement the agreed mitigation measures; 4. Resubmit proposals of mitigation measures if problem still not under control; 5. As directed by the Engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.

Event and Action Plan for Dolphin Monitoring

Event	ET Leader	IEC	ER / SOR	Contractor
Action Level	1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor; 5. Check monitoring data. 6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary.	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor.	1. Discuss monitoring with the IEC and any other measures proposed by the ET; 2. If ER/SOR is satisfied with the proposal of any other measures, ER/SOR to signify the agreement in writing on the measures to be implemented.	1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the ER/SOR; 3. Implement the agreed measures.
Limit Level	1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary;	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor; 3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly; 5. Supervise / Audit the	1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures; 3. Supervise the implementation of additional monitoring	1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures; 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary; 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

Event	ET Leader	IEC	ER / SOR	Contractor
	7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary.	implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly.	and/or any other mitigation measures.	

Event and Action Plan for Mudflat Monitoring

Event	ET Leader	IEC	SO	Contractor
Density or the distribution pattern of horseshoe crab, seagrass or intertidal soft shore communities recorded in the impact or post-construction monitoring are significantly lower than or different from those recorded in the baseline monitoring.	Review historical data to ensure differences are as a result of natural variation or previously observed seasonal differences; Identify source(s) of impact; Inform the IEC, SO and Contractor; Check monitoring data; Discuss additional monitoring and any other measures, with the IEC and Contractor.	Discuss monitoring with the ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SO accordingly.	Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; Make agreement on the measures to be implemented.	Inform the SO and in writing; Discuss with the ET and the IEC and propose measures to the IEC and the ER; Implement the agreed measures.

APPENDIX G

Wind Data

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
01/07/2017	00:05	4.9	E
01/07/2017	00:10	0.4	ESE
01/07/2017	00:15	1.3	ENE
01/07/2017	00:20	0.9	ESE
01/07/2017	00:25	1.3	SW
01/07/2017	00:30	0.4	ESE
01/07/2017	00:35	1.3	ENE
01/07/2017	00:40	0.4	ENE
01/07/2017	00:45	0.9	W
01/07/2017	00:50	3.6	NE
01/07/2017	00:55	0.4	ESE
01/07/2017	01:00	0.9	W
01/07/2017	01:05	0.4	ESE
01/07/2017	01:10	0.4	ESE
01/07/2017	01:15	4.5	NE
01/07/2017	01:20	0.4	ESE
01/07/2017	01:25	0.9	ENE
01/07/2017	01:30	0.4	ESE
01/07/2017	01:35	0.4	ESE
01/07/2017	01:40	1.3	WNW
01/07/2017	01:45	0.9	W
01/07/2017	01:50	1.3	NE
01/07/2017	01:55	1.3	ENE
01/07/2017	02:00	0.4	ESE
01/07/2017	02:05	0.4	ESE
01/07/2017	02:10	0.4	ESE
01/07/2017	02:15	0.4	ESE
01/07/2017	02:20	0.4	ENE
01/07/2017	02:25	1.3	ENE
01/07/2017	02:30	2.2	ENE
01/07/2017	02:35	1.8	NNE
01/07/2017	02:40	0.4	ESE
01/07/2017	02:45	0.4	ESE
01/07/2017	02:50	1.8	NE
01/07/2017	02:55	1.8	E
01/07/2017	03:00	1.3	N
01/07/2017	03:05	2.2	NE
01/07/2017	03:10	0.4	ESE
01/07/2017	03:15	0.4	ESE
01/07/2017	03:20	0.4	WNW
01/07/2017	03:25	1.8	NE
01/07/2017	03:30	2.2	ENE
01/07/2017	03:35	4	NE
01/07/2017	03:40	2.7	ENE
01/07/2017	03:45	1.3	E
01/07/2017	03:50	0.4	ESE
01/07/2017	03:55	0.4	ESE
01/07/2017	04:00	3.1	E
01/07/2017	04:05	2.2	ENE
01/07/2017	04:10	0.9	W
01/07/2017	04:15	2.2	ENE
01/07/2017	04:20	1.8	NNE
01/07/2017	04:25	2.2	ENE
01/07/2017	04:30	0.9	W
01/07/2017	04:35	0.9	NW
01/07/2017	04:40	0.4	NNE
01/07/2017	04:45	1.8	ENE
01/07/2017	04:50	3.1	E
01/07/2017	04:55	1.8	NE
01/07/2017	05:00	0.4	ESE
01/07/2017	05:05	0.4	ESE
01/07/2017	05:10	0.4	NE
01/07/2017	05:15	2.7	ENE
01/07/2017	05:20	0.9	SSW
01/07/2017	05:25	0.4	ESE
01/07/2017	05:30	1.8	NE
01/07/2017	05:35	1.3	NNE
01/07/2017	05:40	0.9	SSW
01/07/2017	05:45	1.3	NNE
01/07/2017	05:50	0.4	ESE
01/07/2017	05:55	1.3	NNE
01/07/2017	06:00	0.9	ESE
01/07/2017	06:05	1.3	N
01/07/2017	06:10	0.4	ESE
01/07/2017	06:15	0.9	NW
01/07/2017	06:20	0.9	WNW
01/07/2017	06:25	0.9	W
01/07/2017	06:30	1.3	NNE
01/07/2017	06:35	0.4	ESE
01/07/2017	06:40	0.4	SW
01/07/2017	06:45	0.4	ESE
01/07/2017	06:50	1.8	NE
01/07/2017	06:55	3.1	ESE
01/07/2017	07:00	0.9	ESE
01/07/2017	07:05	2.2	NE
01/07/2017	07:10	1.3	NNE
01/07/2017	07:15	2.2	ENE
01/07/2017	07:20	0.4	ESE
01/07/2017	07:25	0.4	N
01/07/2017	07:30	0.9	W
01/07/2017	07:35	3.1	ENE
01/07/2017	07:40	1.3	NNE
01/07/2017	07:45	3.1	NNE
01/07/2017	07:50	3.1	ENE
01/07/2017	07:55	1.8	NNE
01/07/2017	08:00	0.4	ESE
01/07/2017	08:05	1.3	ENE
01/07/2017	08:10	0.4	ESE
01/07/2017	08:15	4	ENE
01/07/2017	08:20	0.4	ESE
01/07/2017	08:25	4	NE
01/07/2017	08:30	0.4	ESE
01/07/2017	08:35	1.8	NE
01/07/2017	08:40	0.4	SW
01/07/2017	08:45	0.9	W
01/07/2017	08:50	0.4	NNE
01/07/2017	08:55	2.7	E
01/07/2017	09:00	0.4	N
01/07/2017	09:05	0.4	ESE
01/07/2017	09:10	0.9	W
01/07/2017	09:15	0.4	ESE
01/07/2017	09:20	1.3	N
01/07/2017	09:25	0.4	ESE
01/07/2017	09:30	0.4	ESE
01/07/2017	09:35	0.4	ESE
01/07/2017	09:40	2.2	ENE
01/07/2017	09:45	0.9	W
01/07/2017	09:50	0.4	ESE
01/07/2017	09:55	0.9	NW
01/07/2017	10:00	0.4	ESE
01/07/2017	10:05	0.9	SW
01/07/2017	10:10	0.4	ESE
01/07/2017	10:15	1.3	NE
01/07/2017	10:20	0.9	ESE
01/07/2017	10:25	4.5	E
01/07/2017	10:30	1.3	E
01/07/2017	10:35	2.2	NE
01/07/2017	10:40	0.4	ESE
01/07/2017	10:45	3.1	ESE
01/07/2017	10:50	1.3	NE
01/07/2017	10:55	0.4	ENE
01/07/2017	11:00	0.4	ESE
01/07/2017	11:05	0.4	ESE
01/07/2017	11:10	1.8	NE
01/07/2017	11:15	0.9	NW
01/07/2017	11:20	1.8	NNE
01/07/2017	11:25	4	NE
01/07/2017	11:30	0.9	SSW
01/07/2017	11:35	4.9	NE
01/07/2017	11:40	0.9	ESE
01/07/2017	11:45	0.9	ENE
01/07/2017	11:50	2.2	ENE
01/07/2017	11:55	0.9	NNW
01/07/2017	12:00	0.9	ESE
01/07/2017	12:05	0.9	NNW
01/07/2017	12:10	1.3	ENE
01/07/2017	12:15	1.8	NNE
01/07/2017	12:20	0.4	ENE
01/07/2017	12:25	1.3	E
01/07/2017	12:30	5.4	NE
01/07/2017	12:35	1.8	NNE
01/07/2017	12:40	0.9	NNE
01/07/2017	12:45	0.9	W
01/07/2017	12:50	1.3	SW
01/07/2017	12:55	0.4	ESE
01/07/2017	13:00	1.3	NNE
01/07/2017	13:05	0.4	ESE
01/07/2017	13:10	0.4	SW
01/07/2017	13:15	1.8	ENE
01/07/2017	13:20	1.3	ENE
01/07/2017	13:25	0.4	ESE
01/07/2017	13:30	0.4	ESE
01/07/2017	13:35	0.9	SW
01/07/2017	13:40	1.8	NNE
01/07/2017	13:45	1.3	NNE
01/07/2017	13:50	0.9	NW
01/07/2017	13:55	0.9	ESE
01/07/2017	14:00	2.2	ENE
01/07/2017	14:05	0.9	W
01/07/2017	14:10	0.4	ESE
01/07/2017	14:15	3.1	NNE
01/07/2017	14:20	1.8	ENE
01/07/2017	14:25	2.7	NE
01/07/2017	14:30	1.3	NE
01/07/2017	14:35	2.2	ENE
01/07/2017	14:40	1.8	NNE
01/07/2017	14:45	0.4	SW
01/07/2017	14:50	0.9	W
01/07/2017	14:55	1.8	NNE
01/07/2017	15:00	1.8	NE
01/07/2017	15:05	1.3	NNE
01/07/2017	15:10	1.3	W
01/07/2017	15:15	0.4	ENE
01/07/2017	15:20	0.9	NW
01/07/2017	15:25	0.4	ESE
01/07/2017	15:30	1.3	ENE
01/07/2017	15:35	1.8	E
01/07/2017	15:40	2.7	ENE
01/07/2017	15:45	0.4	ESE
01/07/2017	15:50	0.9	ESE
01/07/2017	15:55	0.4	ESE
01/07/2017	16:00	1.3	W
01/07/2017	16:05	0.4	ENE
01/07/2017	16:10	4.9	NE
01/07/2017	16:15	0.9	NW
01/07/2017	16:20	0.9	SW
01/07/2017	16:25	0.4	SW
01/07/2017	16:30	3.6	NE
01/07/2017	16:35	0.4	ESE
01/07/2017	16:40	0.4	ESE
01/07/2017	16:45	0.9	W
01/07/2017	16:50	1.8	ENE
01/07/2017	16:55	2.7	ENE
01/07/2017	17:00	1.3	ENE
01/07/2017	17:05	2.7	ENE
01/07/2017	17:10	0.4	NNW
01/07/2017	17:15	1.8	ENE
01/07/2017	17:20	0.4	ESE
01/07/2017	17:25	0.4	ESE
01/07/2017	17:30	0.4	NE
01/07/2017	17:35	0.4	SW
01/07/2017	17:40	0.4	ESE
01/07/2017	17:45	1.8	N
01/07/2017	17:50	1.3	NNE
01/07/2017	17:55	1.8	NNE
01/07/2017	18:00	1.3	ENE
01/07/2017	18:05	0.9	SW
01/07/2017	18:10	1.3	ENE
01/07/2017	18:15	0.9	NW
01/07/2017	18:20	0.4	ESE
01/07/2017	18:25	1.3	SW
01/07/2017	18:30	0.4	ESE
01/07/2017	18:35	2.7	ENE
01/07/2017	18:40	5.4	NE
01/07/2017	18:45	0.9	W
01/07/2017	18:50	0.9	NW
01/07/2017	18:55	0.9	ESE
01/07/2017	19:00	1.3	WNW
01/07/2017	19:05	1.3	ENE
01/07/2017	19:10	0.4	ESE
01/07/2017	19:15	1.8	N
01/07/2017	19:20	2.7	ENE
01/07/2017	19:25	0.4	ESE
01/07/2017	19:30	0.4	ESE
01/07/2017	19:35	0.4	ESE
01/07/2017	19:40	2.2	NE
01/07/2017	19:45	2.7	SSE
01/07/2017	19:50	1.3	NNW
01/07/2017	19:55	1.8	ENE
01/07/2017	20:00	0.4	ESE
01/07/2017	20:05	0.4	ESE
01/07/2017	20:10	3.6	ENE
01/07/2017	20:15	1.8	NE
01/07/2017	20:20	1.8	ENE
01/07/2017	20:25	1.8	NE
01/07/2017	20:30	0.4	ESE
01/07/2017	20:35	2.2	ENE
01/07/2017	20:40	3.1	NE
01/07/2017	20:45	0.4	ESE
01/07/2017	20:50	1.3	WSW
01/07/2017	20:55	1.8	ENE
01/07/2017	21:00	0.4	ENE
01/07/2017	21:05	0.4	ESE
01/07/2017	21:10	1.3	NNE
01/07/2017	21:15	2.7	NE
01/07/2017	21:20	0.9	W
01/07/2017	21:25	0.4	ESE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
01/07/2017	21:30	0.9	ESE	02/07/2017	04:40	7.6	ENE	02/07/2017	11:50	1.3	W
01/07/2017	21:35	2.2	ENE	02/07/2017	04:45	4.5	ENE	02/07/2017	11:55	5.8	E
01/07/2017	21:40	2.7	ENE	02/07/2017	04:50	6.7	ENE	02/07/2017	12:00	0.9	NE
01/07/2017	21:45	0.9	ESE	02/07/2017	04:55	4.5	E	02/07/2017	12:05	1.8	N
01/07/2017	21:50	1.8	E	02/07/2017	05:00	2.7	NNE	02/07/2017	12:10	6.7	ENE
01/07/2017	21:55	0.4	W	02/07/2017	05:05	4.5	E	02/07/2017	12:15	4.9	E
01/07/2017	22:00	0.9	ESE	02/07/2017	05:10	1.3	NNE	02/07/2017	12:20	1.8	NE
01/07/2017	22:05	1.8	NNE	02/07/2017	05:15	4.5	E	02/07/2017	12:25	1.8	N
01/07/2017	22:10	0.4	NW	02/07/2017	05:20	1.8	N	02/07/2017	12:30	6.3	NE
01/07/2017	22:15	0.9	SSW	02/07/2017	05:25	1.3	NNE	02/07/2017	12:35	2.7	ENE
01/07/2017	22:20	2.2	E	02/07/2017	05:30	4	ENE	02/07/2017	12:40	1.3	W
01/07/2017	22:25	1.8	NNE	02/07/2017	05:35	1.3	WNW	02/07/2017	12:45	3.6	NE
01/07/2017	22:30	2.2	E	02/07/2017	05:40	3.1	NE	02/07/2017	12:50	1.8	NE
01/07/2017	22:35	0.4	ESE	02/07/2017	05:45	3.6	NE	02/07/2017	12:55	1.3	NNE
01/07/2017	22:40	1.3	ENE	02/07/2017	05:50	4.5	E	02/07/2017	13:00	3.1	ENE
01/07/2017	22:45	0.4	NNE	02/07/2017	05:55	4.9	E	02/07/2017	13:05	1.8	N
01/07/2017	22:50	1.3	NE	02/07/2017	06:00	1.3	WNW	02/07/2017	13:10	1.3	WNW
01/07/2017	22:55	1.8	NE	02/07/2017	06:05	1.3	WNW	02/07/2017	13:15	4.5	NE
01/07/2017	23:00	0.9	W	02/07/2017	06:10	3.6	ENE	02/07/2017	13:20	1.8	NE
01/07/2017	23:05	2.2	ENE	02/07/2017	06:15	4.5	ENE	02/07/2017	13:25	1.3	NNE
01/07/2017	23:10	0.9	NNW	02/07/2017	06:20	5.4	E	02/07/2017	13:30	5.4	E
01/07/2017	23:15	1.3	E	02/07/2017	06:25	1.3	NNE	02/07/2017	13:35	4.9	ENE
01/07/2017	23:20	2.2	ENE	02/07/2017	06:30	1.8	WNW	02/07/2017	13:40	4.5	E
01/07/2017	23:25	1.8	NE	02/07/2017	06:35	4.9	NE	02/07/2017	13:45	4.9	E
01/07/2017	23:30	0.4	N	02/07/2017	06:40	3.1	ENE	02/07/2017	13:50	1.3	WNW
01/07/2017	23:35	3.1	NE	02/07/2017	06:45	4.9	E	02/07/2017	13:55	4.5	ENE
01/07/2017	23:40	0.9	NW	02/07/2017	06:50	1.3	WNW	02/07/2017	14:00	1.3	WNW
01/07/2017	23:45	0.4	ENE	02/07/2017	06:55	4.5	NE	02/07/2017	14:05	2.7	E
01/07/2017	23:50	0.9	NW	02/07/2017	07:00	4.9	E	02/07/2017	14:10	0.4	NE
01/07/2017	23:55	0.9	W	02/07/2017	07:05	5.8	ENE	02/07/2017	14:15	4.5	NE
02/07/2017	00:00	0.9	NW	02/07/2017	07:10	7.6	ENE	02/07/2017	14:20	2.2	ENE
02/07/2017	00:05	3.6	NE	02/07/2017	07:15	2.2	NW	02/07/2017	14:25	1.8	N
02/07/2017	00:10	1.8	E	02/07/2017	07:20	2.7	WNW	02/07/2017	14:30	5.8	E
02/07/2017	00:15	4.5	E	02/07/2017	07:25	5.4	ENE	02/07/2017	14:35	7.2	ENE
02/07/2017	00:20	4.5	E	02/07/2017	07:30	5.4	E	02/07/2017	14:40	2.2	NE
02/07/2017	00:25	3.1	NE	02/07/2017	07:35	6.3	E	02/07/2017	14:45	4.9	NE
02/07/2017	00:30	5.8	ENE	02/07/2017	07:40	2.7	E	02/07/2017	14:50	4.5	E
02/07/2017	00:35	4.5	ENE	02/07/2017	07:45	1.8	W	02/07/2017	14:55	5.4	E
02/07/2017	00:40	4	E	02/07/2017	07:50	5.8	E	02/07/2017	15:00	2.2	NW
02/07/2017	00:45	1.3	WNW	02/07/2017	07:55	5.4	ENE	02/07/2017	15:05	3.1	NNE
02/07/2017	00:50	6.7	E	02/07/2017	08:00	4.5	ENE	02/07/2017	15:10	4.9	NE
02/07/2017	00:55	1.3	NNE	02/07/2017	08:05	4.9	NE	02/07/2017	15:15	4.9	NE
02/07/2017	01:00	1.3	WNW	02/07/2017	08:10	3.6	ENE	02/07/2017	15:20	8	ENE
02/07/2017	01:05	1.8	WNW	02/07/2017	08:15	4.5	NE	02/07/2017	15:25	4.9	E
02/07/2017	01:10	3.1	ENE	02/07/2017	08:20	1.3	WNW	02/07/2017	15:30	1.3	NNE
02/07/2017	01:15	4.9	ENE	02/07/2017	08:25	5.8	ENE	02/07/2017	15:35	1.8	N
02/07/2017	01:20	5.8	E	02/07/2017	08:30	4.5	E	02/07/2017	15:40	5.4	ENE
02/07/2017	01:25	1.3	WNW	02/07/2017	08:35	3.1	E	02/07/2017	15:45	5.4	E
02/07/2017	01:30	4.9	E	02/07/2017	08:40	4.9	ENE	02/07/2017	15:50	1.3	W
02/07/2017	01:35	3.1	NNE	02/07/2017	08:45	8	E	02/07/2017	15:55	4	ENE
02/07/2017	01:40	7.6	ENE	02/07/2017	08:50	5.8	ENE	02/07/2017	16:00	1.8	WNW
02/07/2017	01:45	2.2	ENE	02/07/2017	08:55	2.2	ENE	02/07/2017	16:05	4.5	E
02/07/2017	01:50	4.5	ENE	02/07/2017	09:00	1.3	WNW	02/07/2017	16:10	6.7	ENE
02/07/2017	01:55	1.3	NNE	02/07/2017	09:05	1.3	W	02/07/2017	16:15	6.3	ENE
02/07/2017	02:00	3.6	ENE	02/07/2017	09:10	5.8	E	02/07/2017	16:20	7.2	ENE
02/07/2017	02:05	3.1	NE	02/07/2017	09:15	4.9	ENE	02/07/2017	16:25	2.7	NNE
02/07/2017	02:10	1.8	WNW	02/07/2017	09:20	4.5	E	02/07/2017	16:30	4.9	E
02/07/2017	02:15	4.9	E	02/07/2017	09:25	1.3	W	02/07/2017	16:35	4.5	NE
02/07/2017	02:20	4.5	ENE	02/07/2017	09:30	1.3	WNW	02/07/2017	16:40	1.3	NNE
02/07/2017	02:25	1.3	WNW	02/07/2017	09:35	1.3	WNW	02/07/2017	16:45	4.9	E
02/07/2017	02:30	1.8	WNW	02/07/2017	09:40	7.2	ENE	02/07/2017	16:50	4	ENE
02/07/2017	02:35	1.3	NNE	02/07/2017	09:45	4.5	E	02/07/2017	16:55	4.5	E
02/07/2017	02:40	4.5	E	02/07/2017	09:50	6.7	ENE	02/07/2017	17:00	4.9	E
02/07/2017	02:45	1.3	SSW	02/07/2017	09:55	1.3	W	02/07/2017	17:05	4.9	NE
02/07/2017	02:50	5.8	ENE	02/07/2017	10:00	6.3	E	02/07/2017	17:10	5.8	ENE
02/07/2017	02:55	1.8	N	02/07/2017	10:05	0.9	NE	02/07/2017	17:15	1.8	N
02/07/2017	03:00	1.3	WNW	02/07/2017	10:10	1.8	N	02/07/2017	17:20	7.2	ENE
02/07/2017	03:05	1.3	NNE	02/07/2017	10:15	1.8	NE	02/07/2017	17:25	1.3	NNE
02/07/2017	03:10	2.7	E	02/07/2017	10:20	1.3	WNW	02/07/2017	17:30	2.2	NNE
02/07/2017	03:15	4.9	ENE	02/07/2017	10:25	8.5	ENE	02/07/2017	17:35	3.6	ENE
02/07/2017	03:20	8	ENE	02/07/2017	10:30	6.7	E	02/07/2017	17:40	5.4	E
02/07/2017	03:25	6.7	ENE	02/07/2017	10:35	3.6	ENE	02/07/2017	17:45	2.2	ENE
02/07/2017	03:30	2.2	ENE	02/07/2017	10:40	1.3	NNE	02/07/2017	17:50	1.8	WNW
02/07/2017	03:35	2.2	ENE	02/07/2017	10:45	4.9	E	02/07/2017	17:55	2.2	NE
02/07/2017	03:40	4.5	ENE	02/07/2017	10:50	8	ENE	02/07/2017	18:00	6.3	ENE
02/07/2017	03:45	4.9	NE	02/07/2017	10:55	4.5	ENE	02/07/2017	18:05	4.5	E
02/07/2017	03:50	4.9	NE	02/07/2017	11:00	4.9	ENE	02/07/2017	18:10	8.5	ENE
02/07/2017	03:55	5.8	E	02/07/2017	11:05	4.9	E	02/07/2017	18:15	2.7	E
02/07/2017	04:00	7.2	ENE	02/07/2017	11:10	0.9	NE	02/07/2017	18:20	0.9	NE
02/07/2017	04:05	4.9	ENE	02/07/2017	11:15	3.6	NE	02/07/2017	18:25	3.1	NNE
02/07/2017	04:10	3.1	ENE	02/07/2017	11:20	5.4	ENE	02/07/2017	18:30	8	ENE
02/07/2017	04:15	1.8	NE	02/07/2017	11:25	1.3	WNW	02/07/2017	18:35	1.3	W
02/07/2017	04:20	1.3	NNE	02/07/2017	11:30	4.9	E	02/07/2017	18:40	2.7	E
02/07/2017	04:25	1.8	NE	02/07/2017	11:35	7.2	ENE	02/07/2017	18:45	4.5	E
02/07/2017	04:30	4.5	ENE	02/07/2017	11:40	5.8	ENE	02/07/2017	18:50	1.3	NNE
02/07/2017	04:35	1.3	W	02/07/2017	11:45	0.9	NE	02/07/2017	18:55	4.5	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
02/07/2017	19:00	6.7	NE	03/07/2017	02:10	6.7	ENE	03/07/2017	09:20	5.4	ENE
02/07/2017	19:05	4.5	ENE	03/07/2017	02:15	6.7	E	03/07/2017	09:25	7.2	NE
02/07/2017	19:10	1.3	W	03/07/2017	02:20	1.8	ENE	03/07/2017	09:30	1.3	NE
02/07/2017	19:15	2.2	NE	03/07/2017	02:25	6.7	ENE	03/07/2017	09:35	4.9	ENE
02/07/2017	19:20	4.9	E	03/07/2017	02:30	5.4	ENE	03/07/2017	09:40	4.9	ENE
02/07/2017	19:25	1.3	WNW	03/07/2017	02:35	4	E	03/07/2017	09:45	5.4	ENE
02/07/2017	19:30	1.8	W	03/07/2017	02:40	1.8	NE	03/07/2017	09:50	2.7	ENE
02/07/2017	19:35	0.9	NE	03/07/2017	02:45	4	E	03/07/2017	09:55	4	E
02/07/2017	19:40	0.4	NE	03/07/2017	02:50	3.1	ENE	03/07/2017	10:00	2.2	E
02/07/2017	19:45	5.4	ENE	03/07/2017	02:55	4.9	ENE	03/07/2017	10:05	2.7	ENE
02/07/2017	19:50	2.7	WNW	03/07/2017	03:00	1.8	E	03/07/2017	10:10	1.8	E
02/07/2017	19:55	3.6	ENE	03/07/2017	03:05	5.8	ENE	03/07/2017	10:15	6.3	E
02/07/2017	20:00	4.5	E	03/07/2017	03:10	4.5	E	03/07/2017	10:20	5.4	ENE
02/07/2017	20:05	4.5	NE	03/07/2017	03:15	1.8	NE	03/07/2017	10:25	1.8	E
02/07/2017	20:10	4.9	ENE	03/07/2017	03:20	3.1	NE	03/07/2017	10:30	4.9	ENE
02/07/2017	20:15	7.6	ENE	03/07/2017	03:25	2.7	E	03/07/2017	10:35	4.5	E
02/07/2017	20:20	6.7	NE	03/07/2017	03:30	2.7	ENE	03/07/2017	10:40	6.3	E
02/07/2017	20:25	1.3	WNW	03/07/2017	03:35	4.9	E	03/07/2017	10:45	2.2	E
02/07/2017	20:30	5.8	ENE	03/07/2017	03:40	4.5	ENE	03/07/2017	10:50	2.7	E
02/07/2017	20:35	5.4	ENE	03/07/2017	03:45	3.1	ENE	03/07/2017	10:55	2.2	E
02/07/2017	20:40	3.6	NE	03/07/2017	03:50	2.7	E	03/07/2017	11:00	2.7	E
02/07/2017	20:45	1.8	WNW	03/07/2017	03:55	2.7	ENE	03/07/2017	11:05	4.9	NE
02/07/2017	20:50	7.2	E	03/07/2017	04:00	5.8	ENE	03/07/2017	11:10	2.2	E
02/07/2017	20:55	4.5	E	03/07/2017	04:05	3.1	E	03/07/2017	11:15	5.8	E
02/07/2017	21:00	4.5	E	03/07/2017	04:10	5.8	ENE	03/07/2017	11:20	2.2	ENE
02/07/2017	21:05	1.3	W	03/07/2017	04:15	4.9	E	03/07/2017	11:25	2.7	ENE
02/07/2017	21:10	1.8	NE	03/07/2017	04:20	4.5	E	03/07/2017	11:30	1.3	NNE
02/07/2017	21:15	4.9	ENE	03/07/2017	04:25	2.7	ENE	03/07/2017	11:35	6.3	E
02/07/2017	21:20	4.9	NE	03/07/2017	04:30	4.5	ENE	03/07/2017	11:40	2.7	ENE
02/07/2017	21:25	4.5	NE	03/07/2017	04:35	5.4	E	03/07/2017	11:45	5.8	E
02/07/2017	21:30	7.2	E	03/07/2017	04:40	5.8	ENE	03/07/2017	11:50	1.8	E
02/07/2017	21:35	4.9	E	03/07/2017	04:45	5.8	E	03/07/2017	11:55	2.2	ENE
02/07/2017	21:40	1.3	W	03/07/2017	04:50	4.9	ENE	03/07/2017	12:00	5.4	ENE
02/07/2017	21:45	1.8	N	03/07/2017	04:55	5.8	ENE	03/07/2017	12:05	2.7	NE
02/07/2017	21:50	2.2	NE	03/07/2017	05:00	6.7	E	03/07/2017	12:10	4.9	ENE
02/07/2017	21:55	2.2	ENE	03/07/2017	05:05	5.8	ENE	03/07/2017	12:15	6.3	ENE
02/07/2017	22:00	1.3	W	03/07/2017	05:10	4.9	E	03/07/2017	12:20	2.2	E
02/07/2017	22:05	4.9	E	03/07/2017	05:15	1.3	E	03/07/2017	12:25	2.2	E
02/07/2017	22:10	1.3	W	03/07/2017	05:20	5.4	ENE	03/07/2017	12:30	2.7	E
02/07/2017	22:15	2.7	E	03/07/2017	05:25	4	ENE	03/07/2017	12:35	5.4	ENE
02/07/2017	22:20	4.5	E	03/07/2017	05:30	3.6	E	03/07/2017	12:40	4.9	ENE
02/07/2017	22:25	8.5	ENE	03/07/2017	05:35	6.3	E	03/07/2017	12:45	4.9	ENE
02/07/2017	22:30	1.3	WNW	03/07/2017	05:40	3.6	E	03/07/2017	12:50	3.1	E
02/07/2017	22:35	1.8	N	03/07/2017	05:45	6.7	ENE	03/07/2017	12:55	3.6	ENE
02/07/2017	22:40	4.9	ENE	03/07/2017	05:50	3.6	E	03/07/2017	13:00	2.2	E
02/07/2017	22:45	1.8	N	03/07/2017	05:55	1.8	E	03/07/2017	13:05	5.4	ENE
02/07/2017	22:50	6.3	ENE	03/07/2017	06:00	5.4	E	03/07/2017	13:10	6.3	E
02/07/2017	22:55	1.8	N	03/07/2017	06:05	5.8	ENE	03/07/2017	13:15	1.8	E
02/07/2017	23:00	1.3	NNE	03/07/2017	06:10	3.6	E	03/07/2017	13:20	3.6	ENE
02/07/2017	23:05	4.9	E	03/07/2017	06:15	2.7	E	03/07/2017	13:25	6.7	ENE
02/07/2017	23:10	6.3	NE	03/07/2017	06:20	3.1	ENE	03/07/2017	13:30	2.7	ENE
02/07/2017	23:15	1.8	N	03/07/2017	06:25	5.8	E	03/07/2017	13:35	2.2	E
02/07/2017	23:20	0.9	NE	03/07/2017	06:30	2.2	E	03/07/2017	13:40	5.4	ENE
02/07/2017	23:25	5.8	ENE	03/07/2017	06:35	1.8	E	03/07/2017	13:45	0.9	ESE
02/07/2017	23:30	4.9	NE	03/07/2017	06:40	5.4	ENE	03/07/2017	13:50	4.5	E
02/07/2017	23:35	2.7	E	03/07/2017	06:45	1.8	E	03/07/2017	13:55	1.3	ENE
02/07/2017	23:40	4.9	E	03/07/2017	06:50	2.2	NE	03/07/2017	14:00	4.5	E
02/07/2017	23:45	1.3	WNW	03/07/2017	06:55	5.4	ENE	03/07/2017	14:05	4.9	E
02/07/2017	23:50	1.3	WNW	03/07/2017	07:00	4.9	E	03/07/2017	14:10	5.8	E
02/07/2017	23:55	1.3	W	03/07/2017	07:05	3.1	ENE	03/07/2017	14:15	4	E
03/07/2017	00:00	1.8	N	03/07/2017	07:10	4	ENE	03/07/2017	14:20	4.9	E
03/07/2017	00:05	2.2	E	03/07/2017	07:15	3.6	E	03/07/2017	14:25	3.1	ENE
03/07/2017	00:10	3.1	E	03/07/2017	07:20	4.9	E	03/07/2017	14:30	5.4	ENE
03/07/2017	00:15	4.9	E	03/07/2017	07:25	4	ENE	03/07/2017	14:35	2.2	ENE
03/07/2017	00:20	3.1	E	03/07/2017	07:30	1.8	E	03/07/2017	14:40	7.2	NE
03/07/2017	00:25	3.6	NE	03/07/2017	07:35	5.8	E	03/07/2017	14:45	4.9	ENE
03/07/2017	00:30	2.2	ENE	03/07/2017	07:40	1.8	ENE	03/07/2017	14:50	2.7	E
03/07/2017	00:35	4.9	ENE	03/07/2017	07:45	3.1	ENE	03/07/2017	14:55	6.3	ENE
03/07/2017	00:40	1.8	NE	03/07/2017	07:50	4.5	ENE	03/07/2017	15:00	1.8	E
03/07/2017	00:45	4.5	E	03/07/2017	07:55	3.6	NE	03/07/2017	15:05	4	NE
03/07/2017	00:50	4.5	ENE	03/07/2017	08:00	1.8	E	03/07/2017	15:10	3.6	ENE
03/07/2017	00:55	2.2	ENE	03/07/2017	08:05	2.7	E	03/07/2017	15:15	5.4	E
03/07/2017	01:00	4.9	E	03/07/2017	08:10	3.1	E	03/07/2017	15:20	4.5	E
03/07/2017	01:05	3.1	E	03/07/2017	08:15	0.4	E	03/07/2017	15:25	4.9	ENE
03/07/2017	01:10	3.1	E	03/07/2017	08:20	2.7	E	03/07/2017	15:30	2.2	ENE
03/07/2017	01:15	3.6	ENE	03/07/2017	08:25	1.8	E	03/07/2017	15:35	6.3	E
03/07/2017	01:20	5.8	ENE	03/07/2017	08:30	1.8	ENE	03/07/2017	15:40	6.7	E
03/07/2017	01:25	5.4	E	03/07/2017	08:35	2.7	NE	03/07/2017	15:45	1.8	NE
03/07/2017	01:30	1.3	ENE	03/07/2017	08:40	5.8	E	03/07/2017	15:50	2.2	E
03/07/2017	01:35	4.5	ENE	03/07/2017	08:45	2.2	E	03/07/2017	15:55	5.8	ENE
03/07/2017	01:40	1.8	ENE	03/07/2017	08:50	6.3	E	03/07/2017	16:00	2.7	ENE
03/07/2017	01:45	4.5	E	03/07/2017	08:55	2.7	ESE	03/07/2017	16:05	0.4	E
03/07/2017	01:50	1.8	ENE	03/07/2017	09:00	5.4	ENE	03/07/2017	16:10	1.8	E
03/07/2017	01:55	4	E	03/07/2017	09:05	1.3	ENE	03/07/2017	16:15	4	ENE
03/07/2017	02:00	5.8	E	03/07/2017	09:10	2.7	E	03/07/2017	16:20	5.4	E
03/07/2017	02:05	6.3	E	03/07/2017	09:15	6.7	E	03/07/2017	16:25	3.1	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
03/07/2017	16:30	2.7	E	03/07/2017	23:40	2.2	ENE	04/07/2017	06:50	4.9	NE
03/07/2017	16:35	2.2	ENE	03/07/2017	23:45	4.9	ENE	04/07/2017	06:55	0.4	NW
03/07/2017	16:40	4.5	E	03/07/2017	23:50	5.8	E	04/07/2017	07:00	6.7	ENE
03/07/2017	16:45	3.1	ENE	03/07/2017	23:55	1.3	E	04/07/2017	07:05	2.7	ENE
03/07/2017	16:50	4.9	ENE	04/07/2017	00:00	4.9	ENE	04/07/2017	07:10	4	ENE
03/07/2017	16:55	1.8	NE	04/07/2017	00:05	4	ENE	04/07/2017	07:15	5.4	ENE
03/07/2017	17:00	4	E	04/07/2017	00:10	1.8	W	04/07/2017	07:20	1.8	WNW
03/07/2017	17:05	5.8	E	04/07/2017	00:15	3.1	ENE	04/07/2017	07:25	2.2	NW
03/07/2017	17:10	4	E	04/07/2017	00:20	4.9	ENE	04/07/2017	07:30	5.4	E
03/07/2017	17:15	5.4	ENE	04/07/2017	00:25	5.8	E	04/07/2017	07:35	1.8	NW
03/07/2017	17:20	3.1	E	04/07/2017	00:30	3.1	NE	04/07/2017	07:40	3.6	ENE
03/07/2017	17:25	1.8	ENE	04/07/2017	00:35	2.7	ENE	04/07/2017	07:45	4.9	NE
03/07/2017	17:30	6.3	E	04/07/2017	00:40	4.9	NE	04/07/2017	07:50	0.9	NE
03/07/2017	17:35	4.5	E	04/07/2017	00:45	4.5	NE	04/07/2017	07:55	6.3	E
03/07/2017	17:40	4	ENE	04/07/2017	00:50	1.3	W	04/07/2017	08:00	2.2	NE
03/07/2017	17:45	5.4	E	04/07/2017	00:55	2.7	ENE	04/07/2017	08:05	3.6	NE
03/07/2017	17:50	5.8	ENE	04/07/2017	01:00	4.9	E	04/07/2017	08:10	4	NE
03/07/2017	17:55	2.2	ENE	04/07/2017	01:05	2.7	ENE	04/07/2017	08:15	2.2	NW
03/07/2017	18:00	5.8	ENE	04/07/2017	01:10	2.2	ENE	04/07/2017	08:20	1.3	E
03/07/2017	18:05	4	ENE	04/07/2017	01:15	3.1	ENE	04/07/2017	08:25	6.7	ENE
03/07/2017	18:10	5.4	E	04/07/2017	01:20	4.5	E	04/07/2017	08:30	2.7	W
03/07/2017	18:15	2.7	ENE	04/07/2017	01:25	4.5	NE	04/07/2017	08:35	2.2	SW
03/07/2017	18:20	4.5	E	04/07/2017	01:30	1.8	NNW	04/07/2017	08:40	2.7	ENE
03/07/2017	18:25	6.3	E	04/07/2017	01:35	4	NE	04/07/2017	08:45	4	NE
03/07/2017	18:30	4.9	E	04/07/2017	01:40	4.5	ENE	04/07/2017	08:50	1.3	W
03/07/2017	18:35	4.9	ENE	04/07/2017	01:45	4	ENE	04/07/2017	08:55	4.5	ENE
03/07/2017	18:40	3.6	E	04/07/2017	01:50	4	NE	04/07/2017	09:00	4	ENE
03/07/2017	18:45	5.8	E	04/07/2017	01:55	0.4	WNW	04/07/2017	09:05	4.5	ENE
03/07/2017	18:50	3.1	E	04/07/2017	02:00	4	NE	04/07/2017	09:10	3.1	NE
03/07/2017	18:55	2.2	ENE	04/07/2017	02:05	5.8	ENE	04/07/2017	09:15	0.9	NNE
03/07/2017	19:00	2.7	E	04/07/2017	02:10	6.7	E	04/07/2017	09:20	2.2	NW
03/07/2017	19:05	3.6	ENE	04/07/2017	02:15	4.5	E	04/07/2017	09:25	3.6	ENE
03/07/2017	19:10	5.8	ENE	04/07/2017	02:20	1.8	S	04/07/2017	09:30	5.8	ENE
03/07/2017	19:15	3.6	ENE	04/07/2017	02:25	0.4	E	04/07/2017	09:35	3.6	ENE
03/07/2017	19:20	1.3	E	04/07/2017	02:30	4.5	ENE	04/07/2017	09:40	3.6	E
03/07/2017	19:25	4	ENE	04/07/2017	02:35	1.8	NW	04/07/2017	09:45	1.8	WNW
03/07/2017	19:30	5.8	ENE	04/07/2017	02:40	4	NE	04/07/2017	09:50	4	NE
03/07/2017	19:35	1.8	ENE	04/07/2017	02:45	4	NE	04/07/2017	09:55	3.1	ENE
03/07/2017	19:40	4.5	ENE	04/07/2017	02:50	4	NE	04/07/2017	10:00	3.1	NE
03/07/2017	19:45	3.6	E	04/07/2017	02:55	3.6	NE	04/07/2017	10:05	3.1	NW
03/07/2017	19:50	2.7	E	04/07/2017	03:00	4	NE	04/07/2017	10:10	4	NE
03/07/2017	19:55	4.9	E	04/07/2017	03:05	3.6	NNE	04/07/2017	10:15	3.6	NE
03/07/2017	20:00	2.2	E	04/07/2017	03:10	2.7	E	04/07/2017	10:20	5.8	ENE
03/07/2017	20:05	2.7	E	04/07/2017	03:15	4.5	ENE	04/07/2017	10:25	3.6	ENE
03/07/2017	20:10	5.4	E	04/07/2017	03:20	4	ENE	04/07/2017	10:30	3.1	NE
03/07/2017	20:15	4.9	NE	04/07/2017	03:25	0.9	WNW	04/07/2017	10:35	3.6	ENE
03/07/2017	20:20	4	E	04/07/2017	03:30	2.2	E	04/07/2017	10:40	3.6	ENE
03/07/2017	20:25	4	ENE	04/07/2017	03:35	2.2	NE	04/07/2017	10:45	1.8	W
03/07/2017	20:30	5.8	E	04/07/2017	03:40	3.1	ENE	04/07/2017	10:50	4.9	ENE
03/07/2017	20:35	3.1	E	04/07/2017	03:45	1.3	W	04/07/2017	10:55	5.4	ENE
03/07/2017	20:40	2.2	ENE	04/07/2017	03:50	0.9	NW	04/07/2017	11:00	2.7	ENE
03/07/2017	20:45	3.1	E	04/07/2017	03:55	4.9	ENE	04/07/2017	11:05	1.8	E
03/07/2017	20:50	2.2	E	04/07/2017	04:00	3.6	NE	04/07/2017	11:10	1.8	NE
03/07/2017	20:55	4.9	E	04/07/2017	04:05	1.3	ENE	04/07/2017	11:15	5.4	E
03/07/2017	21:00	4	E	04/07/2017	04:10	4	ENE	04/07/2017	11:20	2.7	ENE
03/07/2017	21:05	2.2	NE	04/07/2017	04:15	1.3	NE	04/07/2017	11:25	3.1	NE
03/07/2017	21:10	1.3	NE	04/07/2017	04:20	2.2	E	04/07/2017	11:30	4.9	ENE
03/07/2017	21:15	3.6	E	04/07/2017	04:25	4.5	E	04/07/2017	11:35	1.8	ESE
03/07/2017	21:20	1.8	E	04/07/2017	04:30	1.8	E	04/07/2017	11:40	3.1	NE
03/07/2017	21:25	5.4	NE	04/07/2017	04:35	1.3	W	04/07/2017	11:45	0.9	NNE
03/07/2017	21:30	5.4	E	04/07/2017	04:40	4.5	ENE	04/07/2017	11:50	5.8	E
03/07/2017	21:35	4	E	04/07/2017	04:45	5.4	ENE	04/07/2017	11:55	4.5	ENE
03/07/2017	21:40	5.8	E	04/07/2017	04:50	6.7	E	04/07/2017	12:00	3.6	ENE
03/07/2017	21:45	5.4	ENE	04/07/2017	04:55	4.5	ENE	04/07/2017	12:05	3.6	NE
03/07/2017	21:50	2.7	ENE	04/07/2017	05:00	4	ENE	04/07/2017	12:10	4.9	E
03/07/2017	21:55	2.7	E	04/07/2017	05:05	2.2	NNE	04/07/2017	12:15	4.9	ENE
03/07/2017	22:00	4.5	ENE	04/07/2017	05:10	2.7	ENE	04/07/2017	12:20	3.6	NE
03/07/2017	22:05	2.2	E	04/07/2017	05:15	1.3	SSW	04/07/2017	12:25	4	ENE
03/07/2017	22:10	4.5	E	04/07/2017	05:20	4.5	ENE	04/07/2017	12:30	1.8	WNW
03/07/2017	22:15	2.2	NE	04/07/2017	05:25	3.1	E	04/07/2017	12:35	3.1	ENE
03/07/2017	22:20	3.1	ENE	04/07/2017	05:30	0.9	WSW	04/07/2017	12:40	3.6	ENE
03/07/2017	22:25	3.1	ENE	04/07/2017	05:35	2.7	ENE	04/07/2017	12:45	3.1	ENE
03/07/2017	22:30	4	ENE	04/07/2017	05:40	2.7	E	04/07/2017	12:50	1.8	W
03/07/2017	22:35	2.2	E	04/07/2017	05:45	2.7	E	04/07/2017	12:55	4	E
03/07/2017	22:40	6.3	E	04/07/2017	05:50	3.1	E	04/07/2017	13:00	4	NE
03/07/2017	22:45	4.9	ENE	04/07/2017	05:55	4.5	E	04/07/2017	13:05	3.1	NE
03/07/2017	22:50	3.1	E	04/07/2017	06:00	1.3	NW	04/07/2017	13:10	4.9	E
03/07/2017	22:55	3.6	E	04/07/2017	06:05	2.2	E	04/07/2017	13:15	4.9	E
03/07/2017	23:00	2.2	NE	04/07/2017	06:10	2.2	NW	04/07/2017	13:20	4.9	NE
03/07/2017	23:05	3.1	ENE	04/07/2017	06:15	2.7	WSW	04/07/2017	13:25	1.3	WNW
03/07/2017	23:10	2.2	E	04/07/2017	06:20	2.2	NE	04/07/2017	13:30	4	NE
03/07/2017	23:15	2.2	E	04/07/2017	06:25	1.3	ENE	04/07/2017	13:35	0.4	E
03/07/2017	23:20	4.9	E	04/07/2017	06:30	5.8	ENE	04/07/2017	13:40	3.6	NE
03/07/2017	23:25	1.8	ENE	04/07/2017	06:35	2.2	WNW	04/07/2017	13:45	5.4	E
03/07/2017	23:30	1.8	E	04/07/2017	06:40	4.9	NE	04/07/2017	13:50	1.8	WNW
03/07/2017	23:35	4.9	ENE	04/07/2017	06:45	4	NE	04/07/2017	13:55	0.9	NNE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
04/07/2017	14:00	2.7	ENE	04/07/2017	21:10	0.9	NNE	05/07/2017	04:20	0.9	N
04/07/2017	14:05	4	ENE	04/07/2017	21:15	2.2	WNW	05/07/2017	04:25	1.3	NE
04/07/2017	14:10	4.5	NE	04/07/2017	21:20	4	ENE	05/07/2017	04:30	1.8	WSW
04/07/2017	14:15	3.1	ENE	04/07/2017	21:25	2.7	ENE	05/07/2017	04:35	1.3	WSW
04/07/2017	14:20	1.8	W	04/07/2017	21:30	1.3	NE	05/07/2017	04:40	0.9	W
04/07/2017	14:25	2.2	N	04/07/2017	21:35	5.8	E	05/07/2017	04:45	0.9	NW
04/07/2017	14:30	1.3	W	04/07/2017	21:40	0.9	NW	05/07/2017	04:50	0.9	ENE
04/07/2017	14:35	2.7	E	04/07/2017	21:45	0.9	NE	05/07/2017	04:55	1.8	ENE
04/07/2017	14:40	4	NE	04/07/2017	21:50	1.3	WNW	05/07/2017	05:00	0.4	WSW
04/07/2017	14:45	1.8	NNW	04/07/2017	21:55	3.6	ENE	05/07/2017	05:05	0.9	W
04/07/2017	14:50	3.1	NE	04/07/2017	22:00	2.7	ENE	05/07/2017	05:10	0.9	E
04/07/2017	14:55	0.9	NE	04/07/2017	22:05	4.5	ENE	05/07/2017	05:15	0.4	W
04/07/2017	15:00	4.5	NE	04/07/2017	22:10	1.3	W	05/07/2017	05:20	2.2	WSW
04/07/2017	15:05	4.5	ENE	04/07/2017	22:15	5.4	ENE	05/07/2017	05:25	1.3	N
04/07/2017	15:10	0.9	NE	04/07/2017	22:20	4.9	E	05/07/2017	05:30	1.3	WSW
04/07/2017	15:15	4.5	ENE	04/07/2017	22:25	1.8	NNE	05/07/2017	05:35	0.4	NW
04/07/2017	15:20	4.5	ENE	04/07/2017	22:30	1.3	W	05/07/2017	05:40	0.4	NW
04/07/2017	15:25	3.1	NE	04/07/2017	22:35	0.4	E	05/07/2017	05:45	0.9	W
04/07/2017	15:30	1.8	W	04/07/2017	22:40	2.2	NE	05/07/2017	05:50	1.3	SSE
04/07/2017	15:35	3.6	NE	04/07/2017	22:45	2.7	ENE	05/07/2017	05:55	2.2	NE
04/07/2017	15:40	2.2	NE	04/07/2017	22:50	5.8	ENE	05/07/2017	06:00	0.9	NW
04/07/2017	15:45	4.9	ENE	04/07/2017	22:55	2.2	WNW	05/07/2017	06:05	1.8	WSW
04/07/2017	15:50	5.4	ENE	04/07/2017	23:00	4	ENE	05/07/2017	06:10	1.8	NE
04/07/2017	15:55	1.8	WNW	04/07/2017	23:05	4	ENE	05/07/2017	06:15	1.3	NNE
04/07/2017	16:00	5.4	ENE	04/07/2017	23:10	4	ENE	05/07/2017	06:20	1.8	NNE
04/07/2017	16:05	2.2	N	04/07/2017	23:15	4.9	NE	05/07/2017	06:25	0	NNW
04/07/2017	16:10	5.4	ENE	04/07/2017	23:20	0.4	WNW	05/07/2017	06:30	0.4	E
04/07/2017	16:15	3.6	ENE	04/07/2017	23:25	2.2	NNE	05/07/2017	06:35	1.8	W
04/07/2017	16:20	2.7	ENE	04/07/2017	23:30	5.4	ENE	05/07/2017	06:40	3.1	W
04/07/2017	16:25	1.8	W	04/07/2017	23:35	4	ENE	05/07/2017	06:45	1.8	NE
04/07/2017	16:30	4.9	NE	04/07/2017	23:40	4	ENE	05/07/2017	06:50	0.9	W
04/07/2017	16:35	4.5	ENE	04/07/2017	23:45	4	NE	05/07/2017	06:55	0.9	WSW
04/07/2017	16:40	2.2	WSW	04/07/2017	23:50	4.5	NE	05/07/2017	07:00	0.9	NW
04/07/2017	16:45	1.8	S	04/07/2017	23:55	4	NE	05/07/2017	07:05	2.2	WNW
04/07/2017	16:50	4.5	ENE	05/07/2017	00:00	6.3	E	05/07/2017	07:10	0.4	W
04/07/2017	16:55	4	ENE	05/07/2017	00:05	0.9	W	05/07/2017	07:15	0.9	SW
04/07/2017	17:00	1.8	ENE	05/07/2017	00:10	0.9	WSW	05/07/2017	07:20	2.2	W
04/07/2017	17:05	3.6	NNE	05/07/2017	00:15	0.9	NW	05/07/2017	07:25	1.3	WSW
04/07/2017	17:10	6.3	E	05/07/2017	00:20	2.7	WSW	05/07/2017	07:30	0.4	N
04/07/2017	17:15	2.2	SW	05/07/2017	00:25	0.9	ENE	05/07/2017	07:35	0.4	ENE
04/07/2017	17:20	4.9	ENE	05/07/2017	00:30	2.2	NE	05/07/2017	07:40	1.8	NNE
04/07/2017	17:25	1.8	ESE	05/07/2017	00:35	0.9	NW	05/07/2017	07:45	1.3	WSW
04/07/2017	17:30	3.1	ENE	05/07/2017	00:40	3.6	WSW	05/07/2017	07:50	0.4	E
04/07/2017	17:35	4.5	ENE	05/07/2017	00:45	0.4	NE	05/07/2017	07:55	2.2	W
04/07/2017	17:40	3.6	ENE	05/07/2017	00:50	3.1	W	05/07/2017	08:00	0.4	WSW
04/07/2017	17:45	4.5	E	05/07/2017	00:55	1.8	WSW	05/07/2017	08:05	0.9	NE
04/07/2017	17:50	3.6	E	05/07/2017	01:00	1.8	W	05/07/2017	08:10	1.8	NNW
04/07/2017	17:55	3.6	NE	05/07/2017	01:05	3.1	WSW	05/07/2017	08:15	1.8	WNW
04/07/2017	18:00	5.8	ENE	05/07/2017	01:10	0.9	NNW	05/07/2017	08:20	0.9	W
04/07/2017	18:05	3.6	ENE	05/07/2017	01:15	0.4	ENE	05/07/2017	08:25	2.2	NNW
04/07/2017	18:10	1.8	NW	05/07/2017	01:20	0.9	N	05/07/2017	08:30	1.3	W
04/07/2017	18:15	5.8	ENE	05/07/2017	01:25	0.9	W	05/07/2017	08:35	1.8	N
04/07/2017	18:20	5.4	ENE	05/07/2017	01:30	1.8	NE	05/07/2017	08:40	0.4	W
04/07/2017	18:25	4.5	NE	05/07/2017	01:35	1.3	WSW	05/07/2017	08:45	1.3	WNW
04/07/2017	18:30	3.6	ENE	05/07/2017	01:40	0.4	E	05/07/2017	08:50	2.2	WSW
04/07/2017	18:35	3.6	NE	05/07/2017	01:45	0.4	ENE	05/07/2017	08:55	0.9	W
04/07/2017	18:40	4	NE	05/07/2017	01:50	0.4	E	05/07/2017	09:00	1.3	W
04/07/2017	18:45	2.7	W	05/07/2017	01:55	0.9	W	05/07/2017	09:05	0.9	SW
04/07/2017	18:50	3.6	ENE	05/07/2017	02:00	1.3	N	05/07/2017	09:10	1.8	WNW
04/07/2017	18:55	2.2	W	05/07/2017	02:05	0.9	W	05/07/2017	09:15	1.8	W
04/07/2017	19:00	4	NE	05/07/2017	02:10	0.4	N	05/07/2017	09:20	4	W
04/07/2017	19:05	2.7	ENE	05/07/2017	02:15	0.9	WSW	05/07/2017	09:25	2.2	NE
04/07/2017	19:10	4	ENE	05/07/2017	02:20	1.3	WSW	05/07/2017	09:30	0.4	W
04/07/2017	19:15	3.1	ENE	05/07/2017	02:25	1.3	N	05/07/2017	09:35	0.9	W
04/07/2017	19:20	5.4	E	05/07/2017	02:30	1.8	WSW	05/07/2017	09:40	1.3	W
04/07/2017	19:25	3.1	ENE	05/07/2017	02:35	0.4	WSW	05/07/2017	09:45	0.9	WSW
04/07/2017	19:30	1.8	ENE	05/07/2017	02:40	1.3	NNW	05/07/2017	09:50	0.4	W
04/07/2017	19:35	2.7	NE	05/07/2017	02:45	0.4	WSW	05/07/2017	09:55	1.8	NNW
04/07/2017	19:40	0.9	WNW	05/07/2017	02:50	0.9	WSW	05/07/2017	10:00	0.4	NE
04/07/2017	19:45	3.6	ENE	05/07/2017	02:55	0.4	W	05/07/2017	10:05	2.2	WSW
04/07/2017	19:50	2.7	ENE	05/07/2017	03:00	1.3	WSW	05/07/2017	10:10	0.4	W
04/07/2017	19:55	0.9	SW	05/07/2017	03:05	2.2	NW	05/07/2017	10:15	0.9	SW
04/07/2017	20:00	3.1	ENE	05/07/2017	03:10	0.4	W	05/07/2017	10:20	3.1	NE
04/07/2017	20:05	4.5	ENE	05/07/2017	03:15	4	NE	05/07/2017	10:25	0.4	E
04/07/2017	20:10	5.4	E	05/07/2017	03:20	1.8	NW	05/07/2017	10:30	1.3	WSW
04/07/2017	20:15	4	NE	05/07/2017	03:25	0.4	W	05/07/2017	10:35	1.3	WSW
04/07/2017	20:20	4	NE	05/07/2017	03:30	2.7	WNW	05/07/2017	10:40	3.6	ENE
04/07/2017	20:25	3.1	E	05/07/2017	03:35	1.8	N	05/07/2017	10:45	1.8	WSW
04/07/2017	20:30	4	ENE	05/07/2017	03:40	2.7	WSW	05/07/2017	10:50	0.9	W
04/07/2017	20:35	1.8	WNW	05/07/2017	03:45	0.9	NNW	05/07/2017	10:55	3.6	WSW
04/07/2017	20:40	5.4	E	05/07/2017	03:50	3.1	W	05/07/2017	11:00	0.4	WNW
04/07/2017	20:45	5.4	E	05/07/2017	03:55	0.4	WNW	05/07/2017	11:05	2.2	NNE
04/07/2017	20:50	2.7	ENE	05/07/2017	04:00	0.9	WSW	05/07/2017	11:10	1.8	NE
04/07/2017	20:55	3.1	ENE	05/07/2017	04:05	0.4	WNW	05/07/2017	11:15	1.3	W
04/07/2017	21:00	4	NE	05/07/2017	04:10	1.8	NNE	05/07/2017	11:20	1.3	NE
04/07/2017	21:05	3.6	ENE	05/07/2017	04:15	1.8	NNE	05/07/2017	11:25	0.4	NW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
05/07/2017	11:30	1.8	N	05/07/2017	18:40	0	NNW	06/07/2017	01:50	0.4	NW
05/07/2017	11:35	0.4	W	05/07/2017	18:45	0.4	W	06/07/2017	01:55	2.2	N
05/07/2017	11:40	1.8	NW	05/07/2017	18:50	1.3	N	06/07/2017	02:00	0.4	ESE
05/07/2017	11:45	0.9	N	05/07/2017	18:55	0.4	E	06/07/2017	02:05	0.9	NNW
05/07/2017	11:50	2.2	WNW	05/07/2017	19:00	0.4	E	06/07/2017	02:10	0.4	ESE
05/07/2017	11:55	1.3	WSW	05/07/2017	19:05	1.3	N	06/07/2017	02:15	1.3	WSW
05/07/2017	12:00	2.2	W	05/07/2017	19:10	0.9	WSW	06/07/2017	02:20	2.7	WNW
05/07/2017	12:05	1.8	NNE	05/07/2017	19:15	1.3	NE	06/07/2017	02:25	3.1	WNW
05/07/2017	12:10	1.3	N	05/07/2017	19:20	0.9	WSW	06/07/2017	02:30	1.3	NE
05/07/2017	12:15	0.9	NW	05/07/2017	19:25	0.9	WSW	06/07/2017	02:35	1.3	E
05/07/2017	12:20	2.7	E	05/07/2017	19:30	0.9	SW	06/07/2017	02:40	2.2	W
05/07/2017	12:25	0.4	WSW	05/07/2017	19:35	0.4	W	06/07/2017	02:45	1.3	WNW
05/07/2017	12:30	0.4	NNW	05/07/2017	19:40	1.8	W	06/07/2017	02:50	0.4	ESE
05/07/2017	12:35	2.7	ENE	05/07/2017	19:45	3.6	NE	06/07/2017	02:55	3.1	WNW
05/07/2017	12:40	0.4	W	05/07/2017	19:50	4	NE	06/07/2017	03:00	0.4	NNW
05/07/2017	12:45	0.4	W	05/07/2017	19:55	4	NE	06/07/2017	03:05	3.1	WNW
05/07/2017	12:50	4	WSW	05/07/2017	20:00	2.7	WSW	06/07/2017	03:10	1.8	E
05/07/2017	12:55	1.3	W	05/07/2017	20:05	0.9	NW	06/07/2017	03:15	1.3	E
05/07/2017	13:00	1.8	NNE	05/07/2017	20:10	1.8	WSW	06/07/2017	03:20	3.1	W
05/07/2017	13:05	0.9	SSE	05/07/2017	20:15	0.9	NNE	06/07/2017	03:25	3.6	W
05/07/2017	13:10	0.9	WSW	05/07/2017	20:20	1.3	N	06/07/2017	03:30	3.6	W
05/07/2017	13:15	0.4	W	05/07/2017	20:25	0.4	ENE	06/07/2017	03:35	2.7	W
05/07/2017	13:20	0.4	N	05/07/2017	20:30	0.9	SW	06/07/2017	03:40	0.4	NE
05/07/2017	13:25	0.9	WSW	05/07/2017	20:35	0.4	E	06/07/2017	03:45	3.6	WNW
05/07/2017	13:30	0.9	N	05/07/2017	20:40	1.3	W	06/07/2017	03:50	0.4	NE
05/07/2017	13:35	1.3	WSW	05/07/2017	20:45	0.4	E	06/07/2017	03:55	0.4	SSW
05/07/2017	13:40	1.3	NNW	05/07/2017	20:50	0.4	E	06/07/2017	04:00	2.7	W
05/07/2017	13:45	1.3	NNE	05/07/2017	20:55	1.8	NE	06/07/2017	04:05	0.9	N
05/07/2017	13:50	4.9	W	05/07/2017	21:00	0.9	WNW	06/07/2017	04:10	1.8	E
05/07/2017	13:55	0.4	WSW	05/07/2017	21:05	0.9	NNE	06/07/2017	04:15	0.9	ENE
05/07/2017	14:00	0.4	W	05/07/2017	21:10	0.9	E	06/07/2017	04:20	2.7	W
05/07/2017	14:05	0.9	WSW	05/07/2017	21:15	1.8	WSW	06/07/2017	04:25	0.4	NNE
05/07/2017	14:10	0.9	WSW	05/07/2017	21:20	1.8	SW	06/07/2017	04:30	2.2	NNW
05/07/2017	14:15	1.8	WSW	05/07/2017	21:25	1.8	NNE	06/07/2017	04:35	0.4	ESE
05/07/2017	14:20	0.4	E	05/07/2017	21:30	0.4	ENE	06/07/2017	04:40	0.4	NE
05/07/2017	14:25	1.3	SSW	05/07/2017	21:35	2.7	W	06/07/2017	04:45	0.4	NNW
05/07/2017	14:30	0.9	W	05/07/2017	21:40	0.4	E	06/07/2017	04:50	3.1	WNW
05/07/2017	14:35	0.9	ENE	05/07/2017	21:45	0.9	W	06/07/2017	04:55	1.3	WSW
05/07/2017	14:40	0.9	WNW	05/07/2017	21:50	0.9	W	06/07/2017	05:00	3.6	W
05/07/2017	14:45	0.4	WSW	05/07/2017	21:55	2.2	WNW	06/07/2017	05:05	3.1	W
05/07/2017	14:50	2.2	E	05/07/2017	22:00	0.9	WSW	06/07/2017	05:10	3.6	W
05/07/2017	14:55	0.9	WNW	05/07/2017	22:05	1.3	WSW	06/07/2017	05:15	0.9	WSW
05/07/2017	15:00	0.4	WSW	05/07/2017	22:10	1.3	W	06/07/2017	05:20	3.1	W
05/07/2017	15:05	0.9	N	05/07/2017	22:15	0.4	W	06/07/2017	05:25	2.7	W
05/07/2017	15:10	0.4	W	05/07/2017	22:20	0.9	NNE	06/07/2017	05:30	1.3	NE
05/07/2017	15:15	1.3	NW	05/07/2017	22:25	0.9	W	06/07/2017	05:35	3.6	WNW
05/07/2017	15:20	0.4	NE	05/07/2017	22:30	0.9	WSW	06/07/2017	05:40	2.2	NE
05/07/2017	15:25	0.4	NE	05/07/2017	22:35	0.4	WNW	06/07/2017	05:45	0.9	NNW
05/07/2017	15:30	1.8	NNW	05/07/2017	22:40	1.8	NNE	06/07/2017	05:50	0.4	NE
05/07/2017	15:35	0.9	SW	05/07/2017	22:45	1.3	ENE	06/07/2017	05:55	3.6	WNW
05/07/2017	15:40	1.3	NNE	05/07/2017	22:50	0.9	NNE	06/07/2017	06:00	2.7	WNW
05/07/2017	15:45	0.9	SW	05/07/2017	22:55	1.3	W	06/07/2017	06:05	2.2	NNW
05/07/2017	15:50	0.4	W	05/07/2017	23:00	4	NE	06/07/2017	06:10	1.8	N
05/07/2017	15:55	2.2	NE	05/07/2017	23:05	2.2	ENE	06/07/2017	06:15	1.3	NE
05/07/2017	16:00	0.4	W	05/07/2017	23:10	2.2	NNE	06/07/2017	06:20	3.6	WNW
05/07/2017	16:05	2.2	W	05/07/2017	23:15	0.9	W	06/07/2017	06:25	0.4	SW
05/07/2017	16:10	1.3	NE	05/07/2017	23:20	2.7	NE	06/07/2017	06:30	1.3	E
05/07/2017	16:15	0.9	ENE	05/07/2017	23:25	0.4	ENE	06/07/2017	06:35	0.4	NE
05/07/2017	16:20	4	ENE	05/07/2017	23:30	0.4	NW	06/07/2017	06:40	1.8	W
05/07/2017	16:25	1.8	WSW	05/07/2017	23:35	1.3	NNE	06/07/2017	06:45	3.1	W
05/07/2017	16:30	0.9	WSW	05/07/2017	23:40	0.9	NNE	06/07/2017	06:50	4	NW
05/07/2017	16:35	1.3	N	05/07/2017	23:45	0.9	ENE	06/07/2017	06:55	1.8	NW
05/07/2017	16:40	0.4	W	05/07/2017	23:50	0.4	W	06/07/2017	07:00	2.7	SW
05/07/2017	16:45	1.3	N	05/07/2017	23:55	0.4	W	06/07/2017	07:05	2.2	NNW
05/07/2017	16:50	2.7	ENE	06/07/2017	00:00	0.9	N	06/07/2017	07:10	0.4	E
05/07/2017	16:55	3.1	NE	06/07/2017	00:05	1.3	N	06/07/2017	07:15	0.4	NW
05/07/2017	17:00	0.4	E	06/07/2017	00:10	0.9	SW	06/07/2017	07:20	2.7	W
05/07/2017	17:05	0.4	W	06/07/2017	00:15	0.4	N	06/07/2017	07:25	0.9	NE
05/07/2017	17:10	0.9	WNW	06/07/2017	00:20	3.6	WNW	06/07/2017	07:30	1.8	N
05/07/2017	17:15	1.8	NW	06/07/2017	00:25	1.3	NNW	06/07/2017	07:35	0.4	NNW
05/07/2017	17:20	0.9	NNW	06/07/2017	00:30	4.9	WNW	06/07/2017	07:40	1.8	E
05/07/2017	17:25	0.9	NW	06/07/2017	00:35	3.6	WSW	06/07/2017	07:45	1.3	NE
05/07/2017	17:30	2.2	WSW	06/07/2017	00:40	2.7	W	06/07/2017	07:50	3.1	WNW
05/07/2017	17:35	0.9	WSW	06/07/2017	00:45	3.6	WNW	06/07/2017	07:55	3.6	W
05/07/2017	17:40	1.3	W	06/07/2017	00:50	2.2	N	06/07/2017	08:00	0.9	NNW
05/07/2017	17:45	3.1	ENE	06/07/2017	00:55	1.3	NE	06/07/2017	08:05	3.1	WNW
05/07/2017	17:50	0.9	NW	06/07/2017	01:00	1.3	WNW	06/07/2017	08:10	4	W
05/07/2017	17:55	0.9	NNW	06/07/2017	01:05	0.9	E	06/07/2017	08:15	1.3	E
05/07/2017	18:00	4	E	06/07/2017	01:10	2.7	WSW	06/07/2017	08:20	1.8	NE
05/07/2017	18:05	1.3	NE	06/07/2017	01:15	0.9	NE	06/07/2017	08:25	3.6	W
05/07/2017	18:10	1.3	ENE	06/07/2017	01:20	3.1	WNW	06/07/2017	08:30	0.9	SSW
05/07/2017	18:15	0.4	W	06/07/2017	01:25	3.6	W	06/07/2017	08:35	2.7	W
05/07/2017	18:20	1.3	NW	06/07/2017	01:30	0.9	NE	06/07/2017	08:40	2.2	WNW
05/07/2017	18:25	1.8	NE	06/07/2017	01:35	1.3	NW	06/07/2017	08:45	3.1	W
05/07/2017	18:30	0.9	NE	06/07/2017	01:40	2.7	WNW	06/07/2017	08:50	1.3	NE
05/07/2017	18:35	1.8	NE	06/07/2017	01:45	2.7	SW	06/07/2017	08:55	0.9	ESE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
06/07/2017	09:00	3.1	W	06/07/2017	16:10	4	NW	06/07/2017	23:20	1.8	NE
06/07/2017	09:05	1.8	NNW	06/07/2017	16:15	0.4	ESE	06/07/2017	23:25	0.4	NE
06/07/2017	09:10	0.4	NW	06/07/2017	16:20	1.8	NW	06/07/2017	23:30	3.1	W
06/07/2017	09:15	0.9	ESE	06/07/2017	16:25	3.6	W	06/07/2017	23:35	0.9	NE
06/07/2017	09:20	3.1	W	06/07/2017	16:30	0.4	ESE	06/07/2017	23:40	0.9	WSW
06/07/2017	09:25	3.6	W	06/07/2017	16:35	3.1	WNW	06/07/2017	23:45	3.6	WNW
06/07/2017	09:30	1.8	NW	06/07/2017	16:40	0.9	W	06/07/2017	23:50	3.6	WNW
06/07/2017	09:35	3.1	WNW	06/07/2017	16:45	3.6	W	06/07/2017	23:55	0.4	NW
06/07/2017	09:40	2.2	WNW	06/07/2017	16:50	0.9	ESE	07/07/2017	00:00	0.9	W
06/07/2017	09:45	3.6	W	06/07/2017	16:55	0.4	NNW	07/07/2017	00:05	4	W
06/07/2017	09:50	2.7	WNW	06/07/2017	17:00	0.4	ESE	07/07/2017	00:10	2.2	NNW
06/07/2017	09:55	1.3	NNE	06/07/2017	17:05	0.9	N	07/07/2017	00:15	1.3	NE
06/07/2017	10:00	3.6	WNW	06/07/2017	17:10	1.3	NW	07/07/2017	00:20	2.2	NW
06/07/2017	10:05	2.7	W	06/07/2017	17:15	3.6	WNW	07/07/2017	00:25	1.8	NE
06/07/2017	10:10	0.4	WSW	06/07/2017	17:20	1.8	N	07/07/2017	00:30	1.8	ENE
06/07/2017	10:15	1.3	NE	06/07/2017	17:25	3.1	WNW	07/07/2017	00:35	2.2	ENE
06/07/2017	10:20	3.6	W	06/07/2017	17:30	2.2	N	07/07/2017	00:40	1.8	NE
06/07/2017	10:25	1.3	E	06/07/2017	17:35	0.9	ESE	07/07/2017	00:45	1.8	ENE
06/07/2017	10:30	1.8	N	06/07/2017	17:40	0.4	SW	07/07/2017	00:50	0.9	NE
06/07/2017	10:35	4	W	06/07/2017	17:45	1.3	NNE	07/07/2017	00:55	1.8	NNW
06/07/2017	10:40	1.8	N	06/07/2017	17:50	2.7	W	07/07/2017	01:00	4.9	W
06/07/2017	10:45	1.3	WSW	06/07/2017	17:55	0.4	ESE	07/07/2017	01:05	2.2	N
06/07/2017	10:50	3.1	W	06/07/2017	18:00	0.4	SW	07/07/2017	01:10	1.8	NW
06/07/2017	10:55	3.1	W	06/07/2017	18:05	0.9	NNW	07/07/2017	01:15	2.2	NNW
06/07/2017	11:00	1.8	NNW	06/07/2017	18:10	0.4	NE	07/07/2017	01:20	3.6	W
06/07/2017	11:05	2.7	WNW	06/07/2017	18:15	3.1	W	07/07/2017	01:25	2.2	NW
06/07/2017	11:10	1.3	WSW	06/07/2017	18:20	3.1	WNW	07/07/2017	01:30	1.3	N
06/07/2017	11:15	1.3	WNW	06/07/2017	18:25	0.9	NW	07/07/2017	01:35	1.8	ENE
06/07/2017	11:20	1.3	NNW	06/07/2017	18:30	0.4	NNW	07/07/2017	01:40	3.6	WNW
06/07/2017	11:25	1.3	WNW	06/07/2017	18:35	0.4	NE	07/07/2017	01:45	2.2	NW
06/07/2017	11:30	0.9	SSW	06/07/2017	18:40	0.9	SW	07/07/2017	01:50	2.2	ENE
06/07/2017	11:35	4	W	06/07/2017	18:45	0.9	NE	07/07/2017	01:55	0.9	NW
06/07/2017	11:40	2.7	WNW	06/07/2017	18:50	0.9	NNE	07/07/2017	02:00	1.3	NNW
06/07/2017	11:45	1.3	WNW	06/07/2017	18:55	3.6	WNW	07/07/2017	02:05	4.5	W
06/07/2017	11:50	0.4	NE	06/07/2017	19:00	1.3	WSW	07/07/2017	02:10	4.5	WNW
06/07/2017	11:55	3.6	WNW	06/07/2017	19:05	0.9	WSW	07/07/2017	02:15	1.8	ENE
06/07/2017	12:00	0.9	SSW	06/07/2017	19:10	0.9	NNW	07/07/2017	02:20	1.8	N
06/07/2017	12:05	3.1	WNW	06/07/2017	19:15	3.1	WNW	07/07/2017	02:25	1.8	N
06/07/2017	12:10	3.1	W	06/07/2017	19:20	2.7	W	07/07/2017	02:30	1.8	ENE
06/07/2017	12:15	0.4	NE	06/07/2017	19:25	0.4	ESE	07/07/2017	02:35	2.2	N
06/07/2017	12:20	1.3	E	06/07/2017	19:30	2.2	W	07/07/2017	02:40	1.8	N
06/07/2017	12:25	3.6	W	06/07/2017	19:35	0.9	NE	07/07/2017	02:45	2.2	NNW
06/07/2017	12:30	1.3	ENE	06/07/2017	19:40	4	W	07/07/2017	02:50	1.8	NW
06/07/2017	12:35	3.6	W	06/07/2017	19:45	1.8	N	07/07/2017	02:55	1.8	NE
06/07/2017	12:40	0.4	NW	06/07/2017	19:50	2.2	W	07/07/2017	03:00	0.9	NNE
06/07/2017	12:45	0.9	NW	06/07/2017	19:55	3.6	WNW	07/07/2017	03:05	3.1	WNW
06/07/2017	12:50	4	WNW	06/07/2017	20:00	2.7	WNW	07/07/2017	03:10	1.3	NNE
06/07/2017	12:55	3.1	W	06/07/2017	20:05	3.1	W	07/07/2017	03:15	1.3	NE
06/07/2017	13:00	0.9	NE	06/07/2017	20:10	1.3	N	07/07/2017	03:20	2.2	NNW
06/07/2017	13:05	2.7	W	06/07/2017	20:15	0.9	E	07/07/2017	03:25	2.2	N
06/07/2017	13:10	1.3	N	06/07/2017	20:20	4	WNW	07/07/2017	03:30	1.3	NNE
06/07/2017	13:15	0.4	ESE	06/07/2017	20:25	3.1	W	07/07/2017	03:35	1.8	N
06/07/2017	13:20	0.9	WNW	06/07/2017	20:30	1.3	WSW	07/07/2017	03:40	2.7	N
06/07/2017	13:25	0.9	NNW	06/07/2017	20:35	1.3	NE	07/07/2017	03:45	1.8	NNW
06/07/2017	13:30	0.9	ESE	06/07/2017	20:40	3.6	WNW	07/07/2017	03:50	2.2	NNW
06/07/2017	13:35	1.8	WSW	06/07/2017	20:45	0.4	SSW	07/07/2017	03:55	2.2	N
06/07/2017	13:40	0.9	W	06/07/2017	20:50	3.1	WNW	07/07/2017	04:00	4	WNW
06/07/2017	13:45	0.4	NW	06/07/2017	20:55	2.7	WSW	07/07/2017	04:05	4.5	W
06/07/2017	13:50	0.9	ESE	06/07/2017	21:00	3.6	NW	07/07/2017	04:10	1.3	NNW
06/07/2017	13:55	2.7	W	06/07/2017	21:05	0.9	W	07/07/2017	04:15	1.8	N
06/07/2017	14:00	3.1	W	06/07/2017	21:10	1.8	N	07/07/2017	04:20	4	W
06/07/2017	14:05	2.7	W	06/07/2017	21:15	2.7	W	07/07/2017	04:25	2.2	N
06/07/2017	14:10	0.4	SW	06/07/2017	21:20	3.1	WNW	07/07/2017	04:30	1.8	N
06/07/2017	14:15	3.1	W	06/07/2017	21:25	2.7	WNW	07/07/2017	04:35	4.5	W
06/07/2017	14:20	4	WNW	06/07/2017	21:30	3.1	W	07/07/2017	04:40	1.3	NE
06/07/2017	14:25	0.4	ESE	06/07/2017	21:35	0.9	NNW	07/07/2017	04:45	1.3	NW
06/07/2017	14:30	0.9	ESE	06/07/2017	21:40	1.3	NE	07/07/2017	04:50	2.2	ENE
06/07/2017	14:35	1.3	W	06/07/2017	21:45	3.1	W	07/07/2017	04:55	2.2	NE
06/07/2017	14:40	0.4	NE	06/07/2017	21:50	0.9	E	07/07/2017	05:00	1.8	NW
06/07/2017	14:45	0.9	NE	06/07/2017	21:55	0.9	SW	07/07/2017	05:05	4	WNW
06/07/2017	14:50	3.6	W	06/07/2017	22:00	3.6	WNW	07/07/2017	05:10	1.3	NNW
06/07/2017	14:55	0.9	WNW	06/07/2017	22:05	1.3	N	07/07/2017	05:15	2.2	NNW
06/07/2017	15:00	2.7	WNW	06/07/2017	22:10	1.3	N	07/07/2017	05:20	4	WNW
06/07/2017	15:05	3.1	W	06/07/2017	22:15	0.4	SW	07/07/2017	05:25	1.8	NW
06/07/2017	15:10	2.7	WNW	06/07/2017	22:20	0.4	ESE	07/07/2017	05:30	1.3	ENE
06/07/2017	15:15	3.1	W	06/07/2017	22:25	1.8	N	07/07/2017	05:35	1.8	ENE
06/07/2017	15:20	3.1	W	06/07/2017	22:30	0.9	ESE	07/07/2017	05:40	2.2	ENE
06/07/2017	15:25	0.9	W	06/07/2017	22:35	0.4	NNW	07/07/2017	05:45	1.3	ENE
06/07/2017	15:30	3.1	W	06/07/2017	22:40	0.4	NW	07/07/2017	05:50	3.6	WNW
06/07/2017	15:35	0.4	NW	06/07/2017	22:45	0.9	ESE	07/07/2017	05:55	1.3	NNE
06/07/2017	15:40	0.9	WSW	06/07/2017	22:50	1.8	NE	07/07/2017	06:00	2.2	N
06/07/2017	15:45	2.2	W	06/07/2017	22:55	1.3	N	07/07/2017	06:05	0.9	N
06/07/2017	15:50	3.1	W	06/07/2017	23:00	0.9	WSW	07/07/2017	06:10	2.2	NNE
06/07/2017	15:55	0.9	NNW	06/07/2017	23:05	0.9	NNW	07/07/2017	06:15	3.1	NNE
06/07/2017	16:00	0.4	NE	06/07/2017	23:10	0.9	NE	07/07/2017	06:20	1.3	NNE
06/07/2017	16:05	3.6	WNW	06/07/2017	23:15	1.3	E	07/07/2017	06:25	2.2	NNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
07/07/2017	06:30	1.8	N	07/07/2017	13:40	1.3	NNE	07/07/2017	20:50	4	W
07/07/2017	06:35	4	WNW	07/07/2017	13:45	1.3	N	07/07/2017	20:55	1.3	NE
07/07/2017	06:40	4.5	WNW	07/07/2017	13:50	1.8	N	07/07/2017	21:00	0.9	NNW
07/07/2017	06:45	2.2	NNW	07/07/2017	13:55	4.5	W	07/07/2017	21:05	2.2	NNW
07/07/2017	06:50	1.3	NE	07/07/2017	14:00	5.4	WNW	07/07/2017	21:10	2.7	NE
07/07/2017	06:55	2.2	N	07/07/2017	14:05	1.3	N	07/07/2017	21:15	1.8	NNW
07/07/2017	07:00	1.8	NNW	07/07/2017	14:10	2.2	NW	07/07/2017	21:20	1.3	ENE
07/07/2017	07:05	2.2	NW	07/07/2017	14:15	2.2	NE	07/07/2017	21:25	1.8	ENE
07/07/2017	07:10	4	W	07/07/2017	14:20	2.2	NNE	07/07/2017	21:30	0.4	NE
07/07/2017	07:15	2.2	NNW	07/07/2017	14:25	2.7	NW	07/07/2017	21:35	4.9	WNW
07/07/2017	07:20	3.1	WNW	07/07/2017	14:30	1.8	NE	07/07/2017	21:40	1.8	NE
07/07/2017	07:25	1.8	ENE	07/07/2017	14:35	1.8	N	07/07/2017	21:45	2.7	NNW
07/07/2017	07:30	2.2	ENE	07/07/2017	14:40	2.2	W	07/07/2017	21:50	1.8	N
07/07/2017	07:35	1.3	ENE	07/07/2017	14:45	1.8	ENE	07/07/2017	21:55	1.8	NW
07/07/2017	07:40	4.5	W	07/07/2017	14:50	2.2	ENE	07/07/2017	22:00	1.8	NW
07/07/2017	07:45	1.3	NE	07/07/2017	14:55	2.2	NNW	07/07/2017	22:05	2.2	NE
07/07/2017	07:50	2.2	NW	07/07/2017	15:00	2.2	NW	07/07/2017	22:10	0.9	NE
07/07/2017	07:55	2.2	N	07/07/2017	15:05	1.3	N	07/07/2017	22:15	2.7	NW
07/07/2017	08:00	1.8	N	07/07/2017	15:10	2.2	NNW	07/07/2017	22:20	3.1	WNW
07/07/2017	08:05	1.8	NE	07/07/2017	15:15	1.3	NE	07/07/2017	22:25	2.2	NE
07/07/2017	08:10	4	W	07/07/2017	15:20	1.3	NNW	07/07/2017	22:30	4	WNW
07/07/2017	08:15	2.7	NNE	07/07/2017	15:25	1.3	NE	07/07/2017	22:35	2.7	NW
07/07/2017	08:20	1.3	NE	07/07/2017	15:30	4	WNW	07/07/2017	22:40	1.8	N
07/07/2017	08:25	1.3	NE	07/07/2017	15:35	2.2	NE	07/07/2017	22:45	1.8	NE
07/07/2017	08:30	4.9	WNW	07/07/2017	15:40	2.2	N	07/07/2017	22:50	1.3	ENE
07/07/2017	08:35	1.3	W	07/07/2017	15:45	4	WNW	07/07/2017	22:55	2.2	NNW
07/07/2017	08:40	1.8	N	07/07/2017	15:50	2.2	NNW	07/07/2017	23:00	1.8	NNW
07/07/2017	08:45	1.3	NNW	07/07/2017	15:55	2.2	N	07/07/2017	23:05	1.3	N
07/07/2017	08:50	1.8	ENE	07/07/2017	16:00	2.2	NE	07/07/2017	23:10	1.8	NNW
07/07/2017	08:55	2.2	NW	07/07/2017	16:05	1.3	NNE	07/07/2017	23:15	2.2	N
07/07/2017	09:00	4.5	WNW	07/07/2017	16:10	4.5	W	07/07/2017	23:20	3.1	W
07/07/2017	09:05	1.3	NE	07/07/2017	16:15	0.9	N	07/07/2017	23:25	3.1	WNW
07/07/2017	09:10	4.5	W	07/07/2017	16:20	2.2	N	07/07/2017	23:30	3.6	WNW
07/07/2017	09:15	2.2	NNW	07/07/2017	16:25	2.2	NW	07/07/2017	23:35	1.8	ENE
07/07/2017	09:20	2.2	ENE	07/07/2017	16:30	0.4	NE	07/07/2017	23:40	1.8	ENE
07/07/2017	09:25	4.5	W	07/07/2017	16:35	4.5	WNW	07/07/2017	23:45	2.7	NE
07/07/2017	09:30	2.2	NNW	07/07/2017	16:40	2.2	NNW	07/07/2017	23:50	3.6	WNW
07/07/2017	09:35	2.7	NNW	07/07/2017	16:45	4	W	07/07/2017	23:55	3.6	W
07/07/2017	09:40	3.6	WNW	07/07/2017	16:50	2.2	NW	08/07/2017	00:00	0.9	NNW
07/07/2017	09:45	1.8	NW	07/07/2017	16:55	1.8	NW	08/07/2017	00:05	1.8	NW
07/07/2017	09:50	2.7	NNW	07/07/2017	17:00	2.2	ENE	08/07/2017	00:10	2.2	N
07/07/2017	09:55	1.8	NW	07/07/2017	17:05	4	WNW	08/07/2017	00:15	2.2	N
07/07/2017	10:00	2.2	N	07/07/2017	17:10	1.8	NE	08/07/2017	00:20	2.2	NW
07/07/2017	10:05	2.2	N	07/07/2017	17:15	2.2	NE	08/07/2017	00:25	2.2	N
07/07/2017	10:10	2.2	NW	07/07/2017	17:20	4.5	WNW	08/07/2017	00:30	3.6	N
07/07/2017	10:15	2.2	N	07/07/2017	17:25	2.2	NNW	08/07/2017	00:35	1.3	NNW
07/07/2017	10:20	2.2	NW	07/07/2017	17:30	2.2	NE	08/07/2017	00:40	4.5	W
07/07/2017	10:25	0.9	NNE	07/07/2017	17:35	1.3	N	08/07/2017	00:45	2.7	N
07/07/2017	10:30	2.2	NNE	07/07/2017	17:40	1.8	NNW	08/07/2017	00:50	1.3	NNE
07/07/2017	10:35	1.3	N	07/07/2017	17:45	1.3	NNE	08/07/2017	00:55	2.2	NW
07/07/2017	10:40	2.7	NE	07/07/2017	17:50	4.5	W	08/07/2017	01:00	1.3	NW
07/07/2017	10:45	2.7	N	07/07/2017	17:55	1.3	ENE	08/07/2017	01:05	1.8	N
07/07/2017	10:50	1.8	N	07/07/2017	18:00	0.4	NE	08/07/2017	01:10	4.9	WNW
07/07/2017	10:55	2.2	ENE	07/07/2017	18:05	1.8	NW	08/07/2017	01:15	1.3	N
07/07/2017	11:00	1.8	NNW	07/07/2017	18:10	0.9	N	08/07/2017	01:20	2.7	NW
07/07/2017	11:05	4.9	W	07/07/2017	18:15	1.3	NE	08/07/2017	01:25	4.5	WNW
07/07/2017	11:10	2.2	N	07/07/2017	18:20	1.3	NNE	08/07/2017	01:30	4	W
07/07/2017	11:15	1.8	N	07/07/2017	18:25	2.7	NNE	08/07/2017	01:35	4	W
07/07/2017	11:20	2.2	NNW	07/07/2017	18:30	4.5	WNW	08/07/2017	01:40	1.8	N
07/07/2017	11:25	1.3	ENE	07/07/2017	18:35	1.8	NE	08/07/2017	01:45	1.8	WNW
07/07/2017	11:30	0.9	NW	07/07/2017	18:40	3.6	WNW	08/07/2017	01:50	2.7	NNW
07/07/2017	11:35	4.5	W	07/07/2017	18:45	1.3	NW	08/07/2017	01:55	1.3	NW
07/07/2017	11:40	1.8	NE	07/07/2017	18:50	1.8	NE	08/07/2017	02:00	1.8	NW
07/07/2017	11:45	4.5	W	07/07/2017	18:55	1.8	NE	08/07/2017	02:05	4.5	W
07/07/2017	11:50	0	N	07/07/2017	19:00	2.2	NW	08/07/2017	02:10	3.1	WNW
07/07/2017	11:55	4.9	WNW	07/07/2017	19:05	0.4	N	08/07/2017	02:15	3.1	NNW
07/07/2017	12:00	1.8	NNW	07/07/2017	19:10	1.3	NNE	08/07/2017	02:20	2.2	NE
07/07/2017	12:05	1.8	WNW	07/07/2017	19:15	1.8	NNW	08/07/2017	02:25	4.9	W
07/07/2017	12:10	2.2	NNE	07/07/2017	19:20	2.2	ENE	08/07/2017	02:30	2.2	NW
07/07/2017	12:15	1.3	NE	07/07/2017	19:25	2.2	NNW	08/07/2017	02:35	1.8	N
07/07/2017	12:20	2.7	NNW	07/07/2017	19:30	2.2	NNW	08/07/2017	02:40	1.3	NNW
07/07/2017	12:25	1.3	NE	07/07/2017	19:35	3.6	W	08/07/2017	02:45	2.2	NW
07/07/2017	12:30	1.8	NE	07/07/2017	19:40	2.2	ENE	08/07/2017	02:50	1.3	NW
07/07/2017	12:35	1.8	NNW	07/07/2017	19:45	3.6	W	08/07/2017	02:55	4.5	W
07/07/2017	12:40	1.3	NE	07/07/2017	19:50	2.2	NW	08/07/2017	03:00	4.5	WNW
07/07/2017	12:45	1.8	NE	07/07/2017	19:55	1.8	N	08/07/2017	03:05	4	WNW
07/07/2017	12:50	1.3	ENE	07/07/2017	20:00	2.2	N	08/07/2017	03:10	2.2	NW
07/07/2017	12:55	2.7	NNE	07/07/2017	20:05	0.4	NE	08/07/2017	03:15	1.8	N
07/07/2017	13:00	2.2	NE	07/07/2017	20:10	1.3	N	08/07/2017	03:20	1.8	N
07/07/2017	13:05	2.2	NE	07/07/2017	20:15	0.4	NNE	08/07/2017	03:25	4	W
07/07/2017	13:10	2.2	NW	07/07/2017	20:20	1.3	ENE	08/07/2017	03:30	1.3	NW
07/07/2017	13:15	2.7	NNW	07/07/2017	20:25	1.8	ENE	08/07/2017	03:35	1.8	NW
07/07/2017	13:20	2.2	NE	07/07/2017	20:30	4.5	W	08/07/2017	03:40	2.7	NW
07/07/2017	13:25	1.8	NE	07/07/2017	20:35	3.6	WNW	08/07/2017	03:45	4	W
07/07/2017	13:30	2.2	NNW	07/07/2017	20:40	1.3	NNW	08/07/2017	03:50	2.7	WNW
07/07/2017	13:35	2.2	W	07/07/2017	20:45	4.9	W	08/07/2017	03:55	1.8	NNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
08/07/2017	04:00	4.5	WNW	08/07/2017	11:10	2.2	NNW	08/07/2017	18:20	2.2	NW
08/07/2017	04:05	2.2	NW	08/07/2017	11:15	2.2	N	08/07/2017	18:25	1.8	NE
08/07/2017	04:10	2.2	NW	08/07/2017	11:20	2.7	NNE	08/07/2017	18:30	2.7	W
08/07/2017	04:15	1.8	NE	08/07/2017	11:25	2.2	W	08/07/2017	18:35	4.5	W
08/07/2017	04:20	1.8	NNW	08/07/2017	11:30	1.8	NW	08/07/2017	18:40	1.8	NW
08/07/2017	04:25	2.2	NW	08/07/2017	11:35	2.2	N	08/07/2017	18:45	1.8	N
08/07/2017	04:30	1.8	NNW	08/07/2017	11:40	2.2	NNE	08/07/2017	18:50	2.2	W
08/07/2017	04:35	5.4	WNW	08/07/2017	11:45	1.8	NW	08/07/2017	18:55	2.2	NW
08/07/2017	04:40	1.3	N	08/07/2017	11:50	2.2	NNW	08/07/2017	19:00	1.8	NW
08/07/2017	04:45	2.2	NW	08/07/2017	11:55	2.7	WNW	08/07/2017	19:05	2.2	WNW
08/07/2017	04:50	3.1	WNW	08/07/2017	12:00	2.2	NW	08/07/2017	19:10	1.8	NNW
08/07/2017	04:55	1.3	N	08/07/2017	12:05	0.9	NNE	08/07/2017	19:15	4.9	WNW
08/07/2017	05:00	3.6	W	08/07/2017	12:10	4.9	W	08/07/2017	19:20	2.2	NNW
08/07/2017	05:05	2.2	NW	08/07/2017	12:15	4.9	W	08/07/2017	19:25	4	W
08/07/2017	05:10	1.3	NNE	08/07/2017	12:20	1.8	NNW	08/07/2017	19:30	1.3	NW
08/07/2017	05:15	2.2	NW	08/07/2017	12:25	4	WNW	08/07/2017	19:35	1.8	NNW
08/07/2017	05:20	2.2	WNW	08/07/2017	12:30	3.6	W	08/07/2017	19:40	4.9	W
08/07/2017	05:25	4.9	W	08/07/2017	12:35	2.7	NW	08/07/2017	19:45	1.8	NNE
08/07/2017	05:30	1.3	NW	08/07/2017	12:40	2.7	NW	08/07/2017	19:50	2.2	NNW
08/07/2017	05:35	4.9	W	08/07/2017	12:45	0.9	NW	08/07/2017	19:55	3.6	W
08/07/2017	05:40	5.4	W	08/07/2017	12:50	2.2	NW	08/07/2017	20:00	2.2	NNW
08/07/2017	05:45	1.8	NW	08/07/2017	12:55	4	W	08/07/2017	20:05	1.8	NNE
08/07/2017	05:50	3.6	W	08/07/2017	13:00	1.8	N	08/07/2017	20:10	1.8	N
08/07/2017	05:55	2.2	NNE	08/07/2017	13:05	1.8	NW	08/07/2017	20:15	2.7	N
08/07/2017	06:00	1.8	NW	08/07/2017	13:10	1.8	NNE	08/07/2017	20:20	2.7	NW
08/07/2017	06:05	1.8	NW	08/07/2017	13:15	3.1	W	08/07/2017	20:25	1.8	NW
08/07/2017	06:10	4	W	08/07/2017	13:20	1.8	NW	08/07/2017	20:30	1.8	NW
08/07/2017	06:15	4	W	08/07/2017	13:25	1.8	NW	08/07/2017	20:35	1.8	NNE
08/07/2017	06:20	4	WNW	08/07/2017	13:30	2.7	WNW	08/07/2017	20:40	2.2	NW
08/07/2017	06:25	5.4	W	08/07/2017	13:35	2.2	NW	08/07/2017	20:45	1.8	NW
08/07/2017	06:30	4.9	W	08/07/2017	13:40	4.5	WNW	08/07/2017	20:50	2.2	N
08/07/2017	06:35	2.2	NW	08/07/2017	13:45	2.2	NW	08/07/2017	20:55	4.9	W
08/07/2017	06:40	2.7	NW	08/07/2017	13:50	2.2	N	08/07/2017	21:00	4	W
08/07/2017	06:45	3.6	W	08/07/2017	13:55	1.8	NW	08/07/2017	21:05	2.2	NW
08/07/2017	06:50	2.7	W	08/07/2017	14:00	2.7	N	08/07/2017	21:10	1.8	NNW
08/07/2017	06:55	2.2	NNW	08/07/2017	14:05	3.6	W	08/07/2017	21:15	1.3	NNE
08/07/2017	07:00	2.2	NNE	08/07/2017	14:10	1.8	NW	08/07/2017	21:20	5.8	W
08/07/2017	07:05	2.2	NW	08/07/2017	14:15	1.8	NNW	08/07/2017	21:25	2.2	NW
08/07/2017	07:10	4	W	08/07/2017	14:20	1.8	NW	08/07/2017	21:30	4.5	W
08/07/2017	07:15	1.8	NW	08/07/2017	14:25	5.4	W	08/07/2017	21:35	1.8	N
08/07/2017	07:20	1.8	NE	08/07/2017	14:30	1.8	NNW	08/07/2017	21:40	3.6	W
08/07/2017	07:25	2.2	NW	08/07/2017	14:35	2.7	NNW	08/07/2017	21:45	1.8	NW
08/07/2017	07:30	4.5	WNW	08/07/2017	14:40	2.7	N	08/07/2017	21:50	1.8	N
08/07/2017	07:35	1.8	N	08/07/2017	14:45	1.8	NW	08/07/2017	21:55	1.3	NNW
08/07/2017	07:40	3.1	WNW	08/07/2017	14:50	4	W	08/07/2017	22:00	1.8	NW
08/07/2017	07:45	4	WNW	08/07/2017	14:55	4.5	W	08/07/2017	22:05	2.2	NNW
08/07/2017	07:50	1.8	NW	08/07/2017	15:00	4	WNW	08/07/2017	22:10	1.8	NW
08/07/2017	07:55	1.3	NW	08/07/2017	15:05	2.2	N	08/07/2017	22:15	1.8	NE
08/07/2017	08:00	2.2	WNW	08/07/2017	15:10	1.8	NW	08/07/2017	22:20	1.8	NNE
08/07/2017	08:05	4	WNW	08/07/2017	15:15	2.2	NNW	08/07/2017	22:25	1.8	NW
08/07/2017	08:10	1.3	NW	08/07/2017	15:20	1.3	NW	08/07/2017	22:30	1.3	NNW
08/07/2017	08:15	4	WNW	08/07/2017	15:25	3.1	W	08/07/2017	22:35	5.4	WNW
08/07/2017	08:20	2.2	NW	08/07/2017	15:30	1.3	NNE	08/07/2017	22:40	2.2	NW
08/07/2017	08:25	4.9	W	08/07/2017	15:35	2.7	NW	08/07/2017	22:45	2.2	NW
08/07/2017	08:30	2.2	NW	08/07/2017	15:40	3.6	W	08/07/2017	22:50	4.5	W
08/07/2017	08:35	1.8	NW	08/07/2017	15:45	2.2	N	08/07/2017	22:55	1.3	N
08/07/2017	08:40	4.5	W	08/07/2017	15:50	2.2	N	08/07/2017	23:00	2.2	NNW
08/07/2017	08:45	3.1	WNW	08/07/2017	15:55	4.5	WNW	08/07/2017	23:05	2.2	NE
08/07/2017	08:50	3.1	W	08/07/2017	16:00	3.6	W	08/07/2017	23:10	4.9	W
08/07/2017	08:55	1.8	NE	08/07/2017	16:05	4	W	08/07/2017	23:15	3.1	WNW
08/07/2017	09:00	1.8	NW	08/07/2017	16:10	1.8	ENE	08/07/2017	23:20	2.7	WNW
08/07/2017	09:05	2.2	NNE	08/07/2017	16:15	5.4	W	08/07/2017	23:25	2.2	NW
08/07/2017	09:10	4	WNW	08/07/2017	16:20	4.5	W	08/07/2017	23:30	3.6	W
08/07/2017	09:15	4.5	W	08/07/2017	16:25	2.7	NNE	08/07/2017	23:35	3.6	W
08/07/2017	09:20	1.8	NNW	08/07/2017	16:30	3.1	WNW	08/07/2017	23:40	3.6	W
08/07/2017	09:25	1.8	NW	08/07/2017	16:35	1.8	NW	08/07/2017	23:45	1.8	NW
08/07/2017	09:30	4	W	08/07/2017	16:40	3.6	W	08/07/2017	23:50	1.3	NNW
08/07/2017	09:35	1.8	NNE	08/07/2017	16:45	2.2	NNW	08/07/2017	23:55	1.8	NE
08/07/2017	09:40	1.8	NW	08/07/2017	16:50	2.2	NW	09/07/2017	00:00	2.2	W
08/07/2017	09:45	3.6	WNW	08/07/2017	16:55	1.8	NNW	09/07/2017	00:05	4	WNW
08/07/2017	09:50	4.5	W	08/07/2017	17:00	1.8	N	09/07/2017	00:10	6.3	WNW
08/07/2017	09:55	3.6	W	08/07/2017	17:05	1.8	NW	09/07/2017	00:15	6.7	WNW
08/07/2017	10:00	3.1	N	08/07/2017	17:10	2.2	NW	09/07/2017	00:20	4.5	WNW
08/07/2017	10:05	2.7	N	08/07/2017	17:15	1.8	NNW	09/07/2017	00:25	2.7	NW
08/07/2017	10:10	3.6	WNW	08/07/2017	17:20	2.7	W	09/07/2017	00:30	5.8	WNW
08/07/2017	10:15	1.3	N	08/07/2017	17:25	3.1	W	09/07/2017	00:35	2.2	NW
08/07/2017	10:20	1.8	NNE	08/07/2017	17:30	2.7	N	09/07/2017	00:40	4.9	WNW
08/07/2017	10:25	4.9	W	08/07/2017	17:35	4.5	W	09/07/2017	00:45	4.5	W
08/07/2017	10:30	2.2	NW	08/07/2017	17:40	1.8	NW	09/07/2017	00:50	1.8	NNW
08/07/2017	10:35	1.3	NNW	08/07/2017	17:45	4.5	W	09/07/2017	00:55	4	WNW
08/07/2017	10:40	2.2	NW	08/07/2017	17:50	2.2	NNW	09/07/2017	01:00	4.5	WNW
08/07/2017	10:45	2.2	N	08/07/2017	17:55	1.3	NNE	09/07/2017	01:05	2.2	NW
08/07/2017	10:50	1.8	ENE	08/07/2017	18:00	2.2	WNW	09/07/2017	01:10	5.4	WNW
08/07/2017	10:55	2.2	N	08/07/2017	18:05	1.3	N	09/07/2017	01:15	4	W
08/07/2017	11:00	4.5	W	08/07/2017	18:10	1.8	NW	09/07/2017	01:20	4	WNW
08/07/2017	11:05	2.2	N	08/07/2017	18:15	3.1	WNW	09/07/2017	01:25	2.2	NW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
09/07/2017	01:30	1.8	WNW	09/07/2017	08:40	3.6	NW	09/07/2017	15:50	0.9	NW
09/07/2017	01:35	2.2	NNW	09/07/2017	08:45	4.9	W	09/07/2017	15:55	0.4	WSW
09/07/2017	01:40	0.9	NNW	09/07/2017	08:50	3.1	W	09/07/2017	16:00	4.9	WNW
09/07/2017	01:45	2.7	WNW	09/07/2017	08:55	2.7	WSW	09/07/2017	16:05	2.7	NW
09/07/2017	01:50	2.2	NNW	09/07/2017	09:00	5.8	WNW	09/07/2017	16:10	2.2	NW
09/07/2017	01:55	5.4	W	09/07/2017	09:05	6.3	WNW	09/07/2017	16:15	1.8	WSW
09/07/2017	02:00	0.4	E	09/07/2017	09:10	1.8	SW	09/07/2017	16:20	0.4	WSW
09/07/2017	02:05	2.2	NNW	09/07/2017	09:15	1.3	NNW	09/07/2017	16:25	4.5	W
09/07/2017	02:10	3.1	WNW	09/07/2017	09:20	3.6	WNW	09/07/2017	16:30	6.7	WNW
09/07/2017	02:15	0.9	NNW	09/07/2017	09:25	0.4	WSW	09/07/2017	16:35	1.8	WNW
09/07/2017	02:20	1.8	NW	09/07/2017	09:30	1.8	WNW	09/07/2017	16:40	6.7	WNW
09/07/2017	02:25	3.1	W	09/07/2017	09:35	2.7	WNW	09/07/2017	16:45	4.9	WNW
09/07/2017	02:30	4	W	09/07/2017	09:40	2.2	NNW	09/07/2017	16:50	1.3	ENE
09/07/2017	02:35	4	WNW	09/07/2017	09:45	1.8	NW	09/07/2017	16:55	5.8	WNW
09/07/2017	02:40	4.5	WNW	09/07/2017	09:50	4.5	W	09/07/2017	17:00	1.8	NW
09/07/2017	02:45	4.5	W	09/07/2017	09:55	6.3	WNW	09/07/2017	17:05	4.5	WNW
09/07/2017	02:50	6.3	WNW	09/07/2017	10:00	1.8	NE	09/07/2017	17:10	0.4	WSW
09/07/2017	02:55	0.4	WSW	09/07/2017	10:05	0.4	WSW	09/07/2017	17:15	3.6	WNW
09/07/2017	03:00	4.9	W	09/07/2017	10:10	4	W	09/07/2017	17:20	1.8	NNW
09/07/2017	03:05	1.8	NNW	09/07/2017	10:15	4	W	09/07/2017	17:25	5.4	WNW
09/07/2017	03:10	5.8	WNW	09/07/2017	10:20	2.7	NW	09/07/2017	17:30	1.3	NW
09/07/2017	03:15	2.2	NNW	09/07/2017	10:25	1.3	WSW	09/07/2017	17:35	1.8	NW
09/07/2017	03:20	6.3	WNW	09/07/2017	10:30	1.8	NW	09/07/2017	17:40	0.4	WSW
09/07/2017	03:25	3.6	W	09/07/2017	10:35	0.9	NNW	09/07/2017	17:45	2.2	NW
09/07/2017	03:30	2.2	NNW	09/07/2017	10:40	4	W	09/07/2017	17:50	0.4	WSW
09/07/2017	03:35	3.6	W	09/07/2017	10:45	1.8	NNW	09/07/2017	17:55	3.1	WNW
09/07/2017	03:40	1.8	NNW	09/07/2017	10:50	2.2	NW	09/07/2017	18:00	4.5	W
09/07/2017	03:45	3.6	W	09/07/2017	10:55	5.4	WNW	09/07/2017	18:05	0.4	WSW
09/07/2017	03:50	4.9	WNW	09/07/2017	11:00	3.6	WNW	09/07/2017	18:10	4.5	WNW
09/07/2017	03:55	5.4	WNW	09/07/2017	11:05	5.8	WNW	09/07/2017	18:15	3.6	WSW
09/07/2017	04:00	0.4	WSW	09/07/2017	11:10	5.4	WNW	09/07/2017	18:20	2.7	W
09/07/2017	04:05	1.3	N	09/07/2017	11:15	1.8	NW	09/07/2017	18:25	4	W
09/07/2017	04:10	4.9	W	09/07/2017	11:20	4.5	WSW	09/07/2017	18:30	0.4	ENE
09/07/2017	04:15	1.8	NNW	09/07/2017	11:25	1.8	NW	09/07/2017	18:35	5.8	WNW
09/07/2017	04:20	4.5	WNW	09/07/2017	11:30	4.5	W	09/07/2017	18:40	2.2	SW
09/07/2017	04:25	1.3	SSW	09/07/2017	11:35	1.8	NW	09/07/2017	18:45	6.3	WNW
09/07/2017	04:30	1.3	NNW	09/07/2017	11:40	4	WNW	09/07/2017	18:50	1.8	NW
09/07/2017	04:35	4.9	WNW	09/07/2017	11:45	1.8	NW	09/07/2017	18:55	4	WNW
09/07/2017	04:40	5.8	W	09/07/2017	11:50	2.2	NW	09/07/2017	19:00	1.3	NW
09/07/2017	04:45	2.2	NNW	09/07/2017	11:55	3.1	WSW	09/07/2017	19:05	4.5	WNW
09/07/2017	04:50	0.9	NNE	09/07/2017	12:00	5.4	WNW	09/07/2017	19:10	2.2	NNW
09/07/2017	04:55	4.5	W	09/07/2017	12:05	3.6	WNW	09/07/2017	19:15	5.4	W
09/07/2017	05:00	4	W	09/07/2017	12:10	2.2	SW	09/07/2017	19:20	1.3	NW
09/07/2017	05:05	0.9	NW	09/07/2017	12:15	5.8	WNW	09/07/2017	19:25	4.9	W
09/07/2017	05:10	2.2	WSW	09/07/2017	12:20	5.4	WNW	09/07/2017	19:30	1.3	NNW
09/07/2017	05:15	1.8	NW	09/07/2017	12:25	2.2	NNW	09/07/2017	19:35	1.8	NNW
09/07/2017	05:20	0.4	WSW	09/07/2017	12:30	1.8	NNW	09/07/2017	19:40	0.9	NNW
09/07/2017	05:25	4.5	W	09/07/2017	12:35	4.9	WNW	09/07/2017	19:45	1.8	NW
09/07/2017	05:30	1.8	NNW	09/07/2017	12:40	4	W	09/07/2017	19:50	4.9	WNW
09/07/2017	05:35	1.3	NNW	09/07/2017	12:45	4	W	09/07/2017	19:55	4	W
09/07/2017	05:40	3.1	WSW	09/07/2017	12:50	1.8	NW	09/07/2017	20:00	4.5	W
09/07/2017	05:45	2.7	NW	09/07/2017	12:55	1.8	NNW	09/07/2017	20:05	5.4	W
09/07/2017	05:50	1.3	NNE	09/07/2017	13:00	0.9	NNW	09/07/2017	20:10	4.5	WNW
09/07/2017	05:55	4	W	09/07/2017	13:05	1.8	NW	09/07/2017	20:15	2.2	WNW
09/07/2017	06:00	4	W	09/07/2017	13:10	1.3	WSW	09/07/2017	20:20	4.9	WNW
09/07/2017	06:05	1.3	NNW	09/07/2017	13:15	1.3	SSW	09/07/2017	20:25	2.2	NNW
09/07/2017	06:10	0.4	WSW	09/07/2017	13:20	1.8	NW	09/07/2017	20:30	4.9	W
09/07/2017	06:15	5.8	WNW	09/07/2017	13:25	1.3	N	09/07/2017	20:35	3.6	W
09/07/2017	06:20	5.4	WNW	09/07/2017	13:30	3.1	WNW	09/07/2017	20:40	4.5	W
09/07/2017	06:25	5.8	WNW	09/07/2017	13:35	1.8	WNW	09/07/2017	20:45	1.3	NW
09/07/2017	06:30	4.5	W	09/07/2017	13:40	1.3	NW	09/07/2017	20:50	5.4	WNW
09/07/2017	06:35	0.4	WSW	09/07/2017	13:45	4.5	WNW	09/07/2017	20:55	4.5	W
09/07/2017	06:40	2.2	NW	09/07/2017	13:50	3.6	W	09/07/2017	21:00	2.2	NW
09/07/2017	06:45	1.3	E	09/07/2017	13:55	4	W	09/07/2017	21:05	1.3	NNW
09/07/2017	06:50	1.3	NNW	09/07/2017	14:00	1.8	NW	09/07/2017	21:10	0.9	WSW
09/07/2017	06:55	2.2	NW	09/07/2017	14:05	2.7	SW	09/07/2017	21:15	4	SW
09/07/2017	07:00	4	W	09/07/2017	14:10	1.3	NNW	09/07/2017	21:20	4.5	WNW
09/07/2017	07:05	0.9	WNW	09/07/2017	14:15	0.4	WSW	09/07/2017	21:25	1.3	NW
09/07/2017	07:10	2.7	W	09/07/2017	14:20	1.8	WNW	09/07/2017	21:30	2.2	NNW
09/07/2017	07:15	2.2	NW	09/07/2017	14:25	4.9	W	09/07/2017	21:35	0.9	SW
09/07/2017	07:20	4.9	W	09/07/2017	14:30	4	W	09/07/2017	21:40	3.1	W
09/07/2017	07:25	4.5	W	09/07/2017	14:35	3.6	WNW	09/07/2017	21:45	1.8	NW
09/07/2017	07:30	4.9	WNW	09/07/2017	14:40	2.2	NNW	09/07/2017	21:50	0.9	NNW
09/07/2017	07:35	3.1	WSW	09/07/2017	14:45	1.8	NW	09/07/2017	21:55	5.4	WNW
09/07/2017	07:40	4	WNW	09/07/2017	14:50	4.9	WNW	09/07/2017	22:00	0.4	SW
09/07/2017	07:45	2.2	NNW	09/07/2017	14:55	1.8	NNW	09/07/2017	22:05	3.6	WNW
09/07/2017	07:50	4.9	WNW	09/07/2017	15:00	1.3	W	09/07/2017	22:10	4.5	WNW
09/07/2017	07:55	4.5	W	09/07/2017	15:05	1.3	NW	09/07/2017	22:15	3.6	WNW
09/07/2017	08:00	4.9	W	09/07/2017	15:10	3.1	W	09/07/2017	22:20	1.8	NNW
09/07/2017	08:05	2.2	NNW	09/07/2017	15:15	3.6	W	09/07/2017	22:25	3.6	W
09/07/2017	08:10	4.5	W	09/07/2017	15:20	1.8	NW	09/07/2017	22:30	6.3	WNW
09/07/2017	08:15	0.9	NNW	09/07/2017	15:25	1.8	NW	09/07/2017	22:35	4.5	W
09/07/2017	08:20	2.2	NW	09/07/2017	15:30	0.4	WSW	09/07/2017	22:40	1.3	NNW
09/07/2017	08:25	4.9	W	09/07/2017	15:35	6.3	WNW	09/07/2017	22:45	4.9	W
09/07/2017	08:30	0.4	WSW	09/07/2017	15:40	4	W	09/07/2017	22:50	5.8	WNW
09/07/2017	08:35	2.7	W	09/07/2017	15:45	1.8	NNW	09/07/2017	22:55	4	W

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
09/07/2017	23:00	4.5	WNW	10/07/2017	06:10	2.7	ENE	10/07/2017	13:20	1.3	W
09/07/2017	23:05	2.2	WNW	10/07/2017	06:15	5.8	E	10/07/2017	13:25	2.7	ENE
09/07/2017	23:10	1.3	NW	10/07/2017	06:20	2.2	NE	10/07/2017	13:30	0.4	WSW
09/07/2017	23:15	1.8	WNW	10/07/2017	06:25	0.4	SW	10/07/2017	13:35	1.8	WNW
09/07/2017	23:20	4	W	10/07/2017	06:30	3.6	E	10/07/2017	13:40	2.7	E
09/07/2017	23:25	0.4	WSW	10/07/2017	06:35	1.8	ENE	10/07/2017	13:45	1.3	E
09/07/2017	23:30	1.3	NW	10/07/2017	06:40	4.9	E	10/07/2017	13:50	3.6	NE
09/07/2017	23:35	4.9	WNW	10/07/2017	06:45	4.9	ENE	10/07/2017	13:55	2.2	WSW
09/07/2017	23:40	4	W	10/07/2017	06:50	3.6	E	10/07/2017	14:00	3.1	E
09/07/2017	23:45	5.4	WNW	10/07/2017	06:55	1.3	WSW	10/07/2017	14:05	4.5	E
09/07/2017	23:50	1.3	N	10/07/2017	07:00	1.3	SW	10/07/2017	14:10	5.8	E
09/07/2017	23:55	5.8	WNW	10/07/2017	07:05	4.5	E	10/07/2017	14:15	2.2	E
10/07/2017	00:00	5.4	WNW	10/07/2017	07:10	4.9	E	10/07/2017	14:20	0.9	ENE
10/07/2017	00:05	1.8	ENE	10/07/2017	07:15	1.3	WNW	10/07/2017	14:25	4.5	E
10/07/2017	00:10	1.8	WSW	10/07/2017	07:20	5.4	E	10/07/2017	14:30	5.8	E
10/07/2017	00:15	1.3	NNE	10/07/2017	07:25	5.8	E	10/07/2017	14:35	1.8	W
10/07/2017	00:20	2.2	ENE	10/07/2017	07:30	3.1	E	10/07/2017	14:40	0.4	N
10/07/2017	00:25	2.2	W	10/07/2017	07:35	4.5	E	10/07/2017	14:45	3.6	E
10/07/2017	00:30	7.6	E	10/07/2017	07:40	2.2	W	10/07/2017	14:50	1.3	ENE
10/07/2017	00:35	2.7	ENE	10/07/2017	07:45	6.3	ENE	10/07/2017	14:55	4	E
10/07/2017	00:40	5.4	E	10/07/2017	07:50	4	E	10/07/2017	15:00	3.6	E
10/07/2017	00:45	2.7	E	10/07/2017	07:55	3.1	E	10/07/2017	15:05	3.1	ENE
10/07/2017	00:50	1.3	ENE	10/07/2017	08:00	2.7	ESE	10/07/2017	15:10	3.1	E
10/07/2017	00:55	2.7	ENE	10/07/2017	08:05	1.8	WSW	10/07/2017	15:15	4	E
10/07/2017	01:00	1.8	WSW	10/07/2017	08:10	3.6	ENE	10/07/2017	15:20	4.5	ENE
10/07/2017	01:05	1.3	E	10/07/2017	08:15	4	E	10/07/2017	15:25	5.4	ENE
10/07/2017	01:10	4.9	E	10/07/2017	08:20	6.3	E	10/07/2017	15:30	1.8	NE
10/07/2017	01:15	4.5	ENE	10/07/2017	08:25	1.3	W	10/07/2017	15:35	5.4	E
10/07/2017	01:20	2.7	ENE	10/07/2017	08:30	3.6	E	10/07/2017	15:40	3.1	E
10/07/2017	01:25	2.7	E	10/07/2017	08:35	1.3	WNW	10/07/2017	15:45	0.9	SSW
10/07/2017	01:30	2.2	ENE	10/07/2017	08:40	2.2	E	10/07/2017	15:50	1.3	WNW
10/07/2017	01:35	2.7	ENE	10/07/2017	08:45	4.5	E	10/07/2017	15:55	1.8	W
10/07/2017	01:40	3.1	E	10/07/2017	08:50	4.5	ENE	10/07/2017	16:00	3.6	ENE
10/07/2017	01:45	3.6	E	10/07/2017	08:55	5.8	E	10/07/2017	16:05	4.5	E
10/07/2017	01:50	4.5	E	10/07/2017	09:00	2.2	ENE	10/07/2017	16:10	4.5	ENE
10/07/2017	01:55	1.8	E	10/07/2017	09:05	2.7	NE	10/07/2017	16:15	1.8	E
10/07/2017	02:00	1.8	WSW	10/07/2017	09:10	5.4	E	10/07/2017	16:20	1.3	ENE
10/07/2017	02:05	3.6	NE	10/07/2017	09:15	4.5	ENE	10/07/2017	16:25	1.8	W
10/07/2017	02:10	3.6	E	10/07/2017	09:20	1.8	NE	10/07/2017	16:30	0.9	WNW
10/07/2017	02:15	4.9	E	10/07/2017	09:25	4	ESE	10/07/2017	16:35	3.1	NE
10/07/2017	02:20	2.2	E	10/07/2017	09:30	4	E	10/07/2017	16:40	1.3	W
10/07/2017	02:25	2.7	E	10/07/2017	09:35	4.5	E	10/07/2017	16:45	4	E
10/07/2017	02:30	5.4	E	10/07/2017	09:40	1.3	ENE	10/07/2017	16:50	2.2	ENE
10/07/2017	02:35	4.5	E	10/07/2017	09:45	2.7	E	10/07/2017	16:55	0.4	N
10/07/2017	02:40	0.9	ENE	10/07/2017	09:50	3.1	E	10/07/2017	17:00	2.2	E
10/07/2017	02:45	4.9	E	10/07/2017	09:55	4.9	E	10/07/2017	17:05	0.4	N
10/07/2017	02:50	2.7	ENE	10/07/2017	10:00	6.3	ENE	10/07/2017	17:10	4.9	E
10/07/2017	02:55	2.2	E	10/07/2017	10:05	5.8	E	10/07/2017	17:15	6.7	E
10/07/2017	03:00	1.8	WSW	10/07/2017	10:10	5.4	E	10/07/2017	17:20	3.1	E
10/07/2017	03:05	1.8	WNW	10/07/2017	10:15	0.9	NE	10/07/2017	17:25	5.8	E
10/07/2017	03:10	1.3	SW	10/07/2017	10:20	2.2	NE	10/07/2017	17:30	5.8	E
10/07/2017	03:15	1.8	E	10/07/2017	10:25	2.7	E	10/07/2017	17:35	4	E
10/07/2017	03:20	1.3	WNW	10/07/2017	10:30	2.2	ENE	10/07/2017	17:40	1.8	WSW
10/07/2017	03:25	3.1	E	10/07/2017	10:35	4	E	10/07/2017	17:45	1.3	SW
10/07/2017	03:30	5.8	E	10/07/2017	10:40	3.1	E	10/07/2017	17:50	5.4	E
10/07/2017	03:35	6.3	E	10/07/2017	10:45	0.4	N	10/07/2017	17:55	4.9	E
10/07/2017	03:40	3.6	E	10/07/2017	10:50	3.1	E	10/07/2017	18:00	2.2	ENE
10/07/2017	03:45	5.8	E	10/07/2017	10:55	2.2	E	10/07/2017	18:05	2.7	WSW
10/07/2017	03:50	4.9	E	10/07/2017	11:00	4.9	E	10/07/2017	18:10	1.3	W
10/07/2017	03:55	0.9	WSW	10/07/2017	11:05	0.9	E	10/07/2017	18:15	4	ENE
10/07/2017	04:00	2.2	WSW	10/07/2017	11:10	2.7	E	10/07/2017	18:20	1.8	E
10/07/2017	04:05	3.1	NE	10/07/2017	11:15	4	ENE	10/07/2017	18:25	3.6	E
10/07/2017	04:10	0.4	N	10/07/2017	11:20	3.1	E	10/07/2017	18:30	4	E
10/07/2017	04:15	4.5	E	10/07/2017	11:25	4.5	ENE	10/07/2017	18:35	0.4	N
10/07/2017	04:20	1.3	NNE	10/07/2017	11:30	1.8	E	10/07/2017	18:40	1.8	WSW
10/07/2017	04:25	1.8	NE	10/07/2017	11:35	2.2	WSW	10/07/2017	18:45	4	E
10/07/2017	04:30	7.2	E	10/07/2017	11:40	2.2	E	10/07/2017	18:50	2.2	E
10/07/2017	04:35	7.2	E	10/07/2017	11:45	2.7	E	10/07/2017	18:55	4.5	E
10/07/2017	04:40	5.4	E	10/07/2017	11:50	4	E	10/07/2017	19:00	4.5	ENE
10/07/2017	04:45	1.8	ENE	10/07/2017	11:55	1.8	NW	10/07/2017	19:05	0.9	ENE
10/07/2017	04:50	5.4	E	10/07/2017	12:00	4	E	10/07/2017	19:10	0.9	NNE
10/07/2017	04:55	1.3	W	10/07/2017	12:05	0.9	E	10/07/2017	19:15	6.3	E
10/07/2017	05:00	6.3	E	10/07/2017	12:10	4	E	10/07/2017	19:20	0.4	N
10/07/2017	05:05	2.2	E	10/07/2017	12:15	3.6	E	10/07/2017	19:25	0.4	S
10/07/2017	05:10	3.1	ENE	10/07/2017	12:20	0.9	NNE	10/07/2017	19:30	5.8	E
10/07/2017	05:15	1.8	E	10/07/2017	12:25	2.7	W	10/07/2017	19:35	1.3	SSW
10/07/2017	05:20	4.5	E	10/07/2017	12:30	0.9	WSW	10/07/2017	19:40	5.4	E
10/07/2017	05:25	2.7	E	10/07/2017	12:35	2.7	WSW	10/07/2017	19:45	5.4	E
10/07/2017	05:30	2.7	E	10/07/2017	12:40	3.1	E	10/07/2017	19:50	0.4	N
10/07/2017	05:35	1.3	WNW	10/07/2017	12:45	1.8	NNE	10/07/2017	19:55	0.9	W
10/07/2017	05:40	4	E	10/07/2017	12:50	0.9	WSW	10/07/2017	20:00	1.8	WSW
10/07/2017	05:45	3.6	E	10/07/2017	12:55	4.5	E	10/07/2017	20:05	4.5	E
10/07/2017	05:50	2.2	ENE	10/07/2017	13:00	0.4	N	10/07/2017	20:10	4.9	ENE
10/07/2017	05:55	6.3	E	10/07/2017	13:05	6.7	E	10/07/2017	20:15	0.4	NE
10/07/2017	06:00	0.9	E	10/07/2017	13:10	1.3	SW	10/07/2017	20:20	4.9	E
10/07/2017	06:05	4.5	E	10/07/2017	13:15	2.2	E	10/07/2017	20:25	1.3	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
10/07/2017	20:30	4.9	ENE	11/07/2017	03:40	0.4	SW	11/07/2017	10:50	1.3	SW
10/07/2017	20:35	4.5	E	11/07/2017	03:45	0.4	WSW	11/07/2017	10:55	3.1	W
10/07/2017	20:40	2.7	ENE	11/07/2017	03:50	0.4	SSW	11/07/2017	11:00	1.8	SW
10/07/2017	20:45	2.2	W	11/07/2017	03:55	1.8	SW	11/07/2017	11:05	2.2	WSW
10/07/2017	20:50	4.5	E	11/07/2017	04:00	2.2	WSW	11/07/2017	11:10	2.7	W
10/07/2017	20:55	6.3	E	11/07/2017	04:05	0.9	SW	11/07/2017	11:15	1.3	SW
10/07/2017	21:00	1.8	SE	11/07/2017	04:10	1.3	SW	11/07/2017	11:20	2.2	W
10/07/2017	21:05	3.1	E	11/07/2017	04:15	0.9	SW	11/07/2017	11:25	2.7	W
10/07/2017	21:10	4.5	ENE	11/07/2017	04:20	1.8	NE	11/07/2017	11:30	2.7	WNW
10/07/2017	21:15	2.7	ENE	11/07/2017	04:25	1.3	NE	11/07/2017	11:35	0.4	NE
10/07/2017	21:20	3.1	E	11/07/2017	04:30	2.2	SW	11/07/2017	11:40	0.4	SW
10/07/2017	21:25	0.4	N	11/07/2017	04:35	1.3	SW	11/07/2017	11:45	1.8	SW
10/07/2017	21:30	0.9	ENE	11/07/2017	04:40	0.9	NE	11/07/2017	11:50	0.9	SW
10/07/2017	21:35	2.7	NE	11/07/2017	04:45	0.9	W	11/07/2017	11:55	2.7	W
10/07/2017	21:40	3.6	ENE	11/07/2017	04:50	0.4	NE	11/07/2017	12:00	1.3	SW
10/07/2017	21:45	5.8	ENE	11/07/2017	04:55	1.8	W	11/07/2017	12:05	3.1	W
10/07/2017	21:50	4.5	ENE	11/07/2017	05:00	2.7	W	11/07/2017	12:10	3.6	W
10/07/2017	21:55	1.3	NE	11/07/2017	05:05	3.1	W	11/07/2017	12:15	2.2	W
10/07/2017	22:00	4	E	11/07/2017	05:10	0.4	NE	11/07/2017	12:20	0.4	SW
10/07/2017	22:05	4.9	E	11/07/2017	05:15	0.9	SSE	11/07/2017	12:25	0.9	SSW
10/07/2017	22:10	4.9	E	11/07/2017	05:20	2.7	WNW	11/07/2017	12:30	1.3	WSW
10/07/2017	22:15	3.6	E	11/07/2017	05:25	0.4	WSW	11/07/2017	12:35	1.3	NE
10/07/2017	22:20	3.1	E	11/07/2017	05:30	0.9	SW	11/07/2017	12:40	1.3	SW
10/07/2017	22:25	1.8	ENE	11/07/2017	05:35	0.9	SW	11/07/2017	12:45	0.9	SW
10/07/2017	22:30	0.4	N	11/07/2017	05:40	0.9	SSW	11/07/2017	12:50	3.1	W
10/07/2017	22:35	4.5	ENE	11/07/2017	05:45	0.4	WSW	11/07/2017	12:55	0.4	SW
10/07/2017	22:40	0.9	N	11/07/2017	05:50	1.3	WSW	11/07/2017	13:00	2.7	WSW
10/07/2017	22:45	5.8	ENE	11/07/2017	05:55	2.7	WNW	11/07/2017	13:05	1.8	W
10/07/2017	22:50	4	ENE	11/07/2017	06:00	2.7	W	11/07/2017	13:10	0.4	NE
10/07/2017	22:55	2.7	E	11/07/2017	06:05	3.1	W	11/07/2017	13:15	0.9	SW
10/07/2017	23:00	1.3	ENE	11/07/2017	06:10	2.7	WNW	11/07/2017	13:20	0.4	W
10/07/2017	23:05	1.8	ENE	11/07/2017	06:15	1.3	WSW	11/07/2017	13:25	0.4	SW
10/07/2017	23:10	4.5	ENE	11/07/2017	06:20	2.7	WNW	11/07/2017	13:30	1.8	SSW
10/07/2017	23:15	2.7	NE	11/07/2017	06:25	0.9	SSW	11/07/2017	13:35	2.7	W
10/07/2017	23:20	2.7	ENE	11/07/2017	06:30	0.4	NE	11/07/2017	13:40	0.4	NE
10/07/2017	23:25	2.2	ENE	11/07/2017	06:35	0.4	SW	11/07/2017	13:45	0.9	SSW
10/07/2017	23:30	5.4	E	11/07/2017	06:40	0.9	SW	11/07/2017	13:50	0.9	WSW
10/07/2017	23:35	5.8	E	11/07/2017	06:45	2.2	SW	11/07/2017	13:55	0.4	NE
10/07/2017	23:40	4	E	11/07/2017	06:50	1.8	W	11/07/2017	14:00	0.4	SW
10/07/2017	23:45	5.4	E	11/07/2017	06:55	1.8	SW	11/07/2017	14:05	2.7	WNW
10/07/2017	23:50	1.3	WSW	11/07/2017	07:00	1.3	SW	11/07/2017	14:10	0.4	SW
10/07/2017	23:55	4	E	11/07/2017	07:05	0.4	NE	11/07/2017	14:15	1.8	WNW
11/07/2017	00:00	4.9	E	11/07/2017	07:10	1.3	NE	11/07/2017	14:20	3.1	W
11/07/2017	00:05	1.3	WSW	11/07/2017	07:15	0.4	WSW	11/07/2017	14:25	2.2	W
11/07/2017	00:10	0.4	SSW	11/07/2017	07:20	0.9	SSW	11/07/2017	14:30	0.4	WSW
11/07/2017	00:15	3.1	W	11/07/2017	07:25	0.9	SW	11/07/2017	14:35	2.7	WNW
11/07/2017	00:20	1.8	SW	11/07/2017	07:30	3.1	W	11/07/2017	14:40	1.8	WSW
11/07/2017	00:25	0.4	SW	11/07/2017	07:35	0.4	SW	11/07/2017	14:45	2.7	WNW
11/07/2017	00:30	2.2	SW	11/07/2017	07:40	1.3	SSW	11/07/2017	14:50	2.2	WNW
11/07/2017	00:35	3.1	WNW	11/07/2017	07:45	0.9	SW	11/07/2017	14:55	0.4	SW
11/07/2017	00:40	0.4	WSW	11/07/2017	07:50	3.1	W	11/07/2017	15:00	2.7	W
11/07/2017	00:45	1.8	W	11/07/2017	07:55	2.2	WSW	11/07/2017	15:05	1.8	SW
11/07/2017	00:50	0.4	WSW	11/07/2017	08:00	0.9	SSW	11/07/2017	15:10	0.9	W
11/07/2017	00:55	0.4	WSW	11/07/2017	08:05	1.8	SSW	11/07/2017	15:15	1.8	SW
11/07/2017	01:00	1.3	W	11/07/2017	08:10	3.1	W	11/07/2017	15:20	2.7	W
11/07/2017	01:05	2.7	WNW	11/07/2017	08:15	2.7	W	11/07/2017	15:25	0.9	SW
11/07/2017	01:10	1.3	W	11/07/2017	08:20	1.8	SW	11/07/2017	15:30	0.9	WNW
11/07/2017	01:15	1.8	WSW	11/07/2017	08:25	1.8	SW	11/07/2017	15:35	2.2	SW
11/07/2017	01:20	2.2	W	11/07/2017	08:30	0.9	SSW	11/07/2017	15:40	2.2	SW
11/07/2017	01:25	0.9	SSW	11/07/2017	08:35	2.2	W	11/07/2017	15:45	2.7	WNW
11/07/2017	01:30	2.7	WNW	11/07/2017	08:40	0.4	SW	11/07/2017	15:50	0.4	SSW
11/07/2017	01:35	2.7	W	11/07/2017	08:45	2.2	SW	11/07/2017	15:55	3.1	W
11/07/2017	01:40	0.4	NE	11/07/2017	08:50	0.9	SW	11/07/2017	16:00	2.7	W
11/07/2017	01:45	2.2	W	11/07/2017	08:55	0.9	SSW	11/07/2017	16:05	0.4	SW
11/07/2017	01:50	2.7	W	11/07/2017	09:00	0.4	NE	11/07/2017	16:10	1.8	WSW
11/07/2017	01:55	0.4	NE	11/07/2017	09:05	1.3	WSW	11/07/2017	16:15	2.7	SW
11/07/2017	02:00	0.4	W	11/07/2017	09:10	2.7	W	11/07/2017	16:20	0.9	WSW
11/07/2017	02:05	1.3	SW	11/07/2017	09:15	1.3	SW	11/07/2017	16:25	1.8	SW
11/07/2017	02:10	1.3	S	11/07/2017	09:20	0.9	SW	11/07/2017	16:30	1.3	W
11/07/2017	02:15	1.8	W	11/07/2017	09:25	1.8	SSW	11/07/2017	16:35	3.1	W
11/07/2017	02:20	3.1	WNW	11/07/2017	09:30	0.4	SW	11/07/2017	16:40	3.1	WNW
11/07/2017	02:25	0.4	WSW	11/07/2017	09:35	1.3	SW	11/07/2017	16:45	2.7	WSW
11/07/2017	02:30	0.9	NE	11/07/2017	09:40	1.8	SW	11/07/2017	16:50	0.4	SSW
11/07/2017	02:35	0.9	SSW	11/07/2017	09:45	3.1	W	11/07/2017	16:55	2.2	W
11/07/2017	02:40	0.9	NE	11/07/2017	09:50	0.4	WSW	11/07/2017	17:00	2.2	SW
11/07/2017	02:45	3.1	W	11/07/2017	09:55	2.2	WSW	11/07/2017	17:05	3.1	W
11/07/2017	02:50	2.7	W	11/07/2017	10:00	0.4	SW	11/07/2017	17:10	2.2	SW
11/07/2017	02:55	1.3	WNW	11/07/2017	10:05	0.9	NE	11/07/2017	17:15	2.2	WSW
11/07/2017	03:00	0.9	SSW	11/07/2017	10:10	0.4	SW	11/07/2017	17:20	2.2	W
11/07/2017	03:05	3.1	W	11/07/2017	10:15	0.9	SSW	11/07/2017	17:25	0.9	SW
11/07/2017	03:10	0.4	SW	11/07/2017	10:20	2.2	WSW	11/07/2017	17:30	0.9	SW
11/07/2017	03:15	2.7	WSW	11/07/2017	10:25	2.2	W	11/07/2017	17:35	2.2	SW
11/07/2017	03:20	2.7	WSW	11/07/2017	10:30	0.9	SW	11/07/2017	17:40	0.9	SW
11/07/2017	03:25	0.4	WSW	11/07/2017	10:35	2.7	W	11/07/2017	17:45	3.1	W
11/07/2017	03:30	0.9	SSW	11/07/2017	10:40	3.1	W	11/07/2017	17:50	1.8	W
11/07/2017	03:35	0.9	NE	11/07/2017	10:45	0.9	SSW	11/07/2017	17:55	1.3	SW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
11/07/2017	18:00	0.9	SW	12/07/2017	01:10	0.4	NNE	12/07/2017	08:20	1.3	ENE
11/07/2017	18:05	1.8	WSW	12/07/2017	01:15	0.9	WNW	12/07/2017	08:25	2.2	WSW
11/07/2017	18:10	0.9	NE	12/07/2017	01:20	3.1	W	12/07/2017	08:30	0.4	NNE
11/07/2017	18:15	0.9	SW	12/07/2017	01:25	1.3	ENE	12/07/2017	08:35	1.8	NE
11/07/2017	18:20	2.7	W	12/07/2017	01:30	0.4	ENE	12/07/2017	08:40	0.4	WSW
11/07/2017	18:25	3.1	W	12/07/2017	01:35	0.9	WSW	12/07/2017	08:45	0.4	WSW
11/07/2017	18:30	0.9	SW	12/07/2017	01:40	2.2	WSW	12/07/2017	08:50	0.4	N
11/07/2017	18:35	2.7	W	12/07/2017	01:45	0.4	NW	12/07/2017	08:55	1.3	NE
11/07/2017	18:40	1.3	SW	12/07/2017	01:50	2.2	SW	12/07/2017	09:00	0.4	NNE
11/07/2017	18:45	0.4	WSW	12/07/2017	01:55	0.9	WSW	12/07/2017	09:05	2.7	WSW
11/07/2017	18:50	1.8	WNW	12/07/2017	02:00	0.4	NNE	12/07/2017	09:10	1.3	NW
11/07/2017	18:55	2.7	W	12/07/2017	02:05	0.4	NNE	12/07/2017	09:15	0.4	NW
11/07/2017	19:00	1.3	S	12/07/2017	02:10	0.9	NE	12/07/2017	09:20	0.9	NE
11/07/2017	19:05	0.9	SSW	12/07/2017	02:15	1.3	NE	12/07/2017	09:25	0.4	NE
11/07/2017	19:10	0.4	SSW	12/07/2017	02:20	2.2	W	12/07/2017	09:30	3.1	WSW
11/07/2017	19:15	0.4	SW	12/07/2017	02:25	1.3	NNE	12/07/2017	09:35	0.9	ENE
11/07/2017	19:20	0.9	SSW	12/07/2017	02:30	2.7	WSW	12/07/2017	09:40	0.9	WSW
11/07/2017	19:25	1.3	SW	12/07/2017	02:35	2.2	NE	12/07/2017	09:45	1.8	NE
11/07/2017	19:30	3.1	W	12/07/2017	02:40	3.1	NE	12/07/2017	09:50	2.2	NE
11/07/2017	19:35	0.4	WSW	12/07/2017	02:45	1.3	NE	12/07/2017	09:55	0.9	NNW
11/07/2017	19:40	0.4	SW	12/07/2017	02:50	2.7	W	12/07/2017	10:00	0.9	WSW
11/07/2017	19:45	2.2	SW	12/07/2017	02:55	0.9	WSW	12/07/2017	10:05	0.4	NNE
11/07/2017	19:50	0.4	SW	12/07/2017	03:00	0.4	NNE	12/07/2017	10:10	0.4	NNE
11/07/2017	19:55	2.7	WSW	12/07/2017	03:05	0.4	NNE	12/07/2017	10:15	0.4	WSW
11/07/2017	20:00	2.7	W	12/07/2017	03:10	0.4	ENE	12/07/2017	10:20	2.7	W
11/07/2017	20:05	1.8	SSW	12/07/2017	03:15	1.3	W	12/07/2017	10:25	1.3	SW
11/07/2017	20:10	1.3	SW	12/07/2017	03:20	0.9	NE	12/07/2017	10:30	1.8	NE
11/07/2017	20:15	3.1	W	12/07/2017	03:25	1.8	WSW	12/07/2017	10:35	2.7	SW
11/07/2017	20:20	1.3	WNW	12/07/2017	03:30	0.4	WNW	12/07/2017	10:40	3.1	WSW
11/07/2017	20:25	0.9	SW	12/07/2017	03:35	1.3	WSW	12/07/2017	10:45	0.9	NE
11/07/2017	20:30	1.3	SW	12/07/2017	03:40	0.4	NNE	12/07/2017	10:50	3.1	WSW
11/07/2017	20:35	1.3	W	12/07/2017	03:45	1.3	NE	12/07/2017	10:55	3.1	WSW
11/07/2017	20:40	0.4	NE	12/07/2017	03:50	0.4	NNE	12/07/2017	11:00	0.4	NW
11/07/2017	20:45	0.9	SSW	12/07/2017	03:55	1.8	WSW	12/07/2017	11:05	0.9	WSW
11/07/2017	20:50	0.9	NE	12/07/2017	04:00	1.3	W	12/07/2017	11:10	0.9	SW
11/07/2017	20:55	1.8	SW	12/07/2017	04:05	0.4	ENE	12/07/2017	11:15	1.3	N
11/07/2017	21:00	3.1	W	12/07/2017	04:10	0.9	WSW	12/07/2017	11:20	1.3	N
11/07/2017	21:05	2.2	W	12/07/2017	04:15	2.2	WSW	12/07/2017	11:25	2.7	WSW
11/07/2017	21:10	0.4	NE	12/07/2017	04:20	0.9	NE	12/07/2017	11:30	0.9	NE
11/07/2017	21:15	2.2	W	12/07/2017	04:25	2.2	WSW	12/07/2017	11:35	0.9	ENE
11/07/2017	21:20	0.4	SW	12/07/2017	04:30	1.8	W	12/07/2017	11:40	1.3	N
11/07/2017	21:25	0.4	SW	12/07/2017	04:35	1.3	NE	12/07/2017	11:45	0.9	ENE
11/07/2017	21:30	3.6	W	12/07/2017	04:40	0.4	NNE	12/07/2017	11:50	0.9	WSW
11/07/2017	21:35	3.1	W	12/07/2017	04:45	0.9	ENE	12/07/2017	11:55	0.4	WSW
11/07/2017	21:40	0.9	NE	12/07/2017	04:50	0.9	WNW	12/07/2017	12:00	0.9	NE
11/07/2017	21:45	0.9	SSW	12/07/2017	04:55	0.4	WSW	12/07/2017	12:05	0.4	E
11/07/2017	21:50	0.4	SW	12/07/2017	05:00	0.9	ENE	12/07/2017	12:10	0.4	NW
11/07/2017	21:55	0.4	WSW	12/07/2017	05:05	2.2	WSW	12/07/2017	12:15	0.9	NW
11/07/2017	22:00	0.9	SSE	12/07/2017	05:10	0.9	NE	12/07/2017	12:20	2.7	WSW
11/07/2017	22:05	3.1	WNW	12/07/2017	05:15	0.9	NNE	12/07/2017	12:25	2.7	W
11/07/2017	22:10	0.9	SSW	12/07/2017	05:20	0.9	NW	12/07/2017	12:30	1.3	WNW
11/07/2017	22:15	2.7	WNW	12/07/2017	05:25	3.1	WSW	12/07/2017	12:35	0.9	WSW
11/07/2017	22:20	2.7	WNW	12/07/2017	05:30	0.4	NW	12/07/2017	12:40	1.8	W
11/07/2017	22:25	0.9	SW	12/07/2017	05:35	1.3	N	12/07/2017	12:45	1.8	W
11/07/2017	22:30	2.7	WNW	12/07/2017	05:40	0.4	NE	12/07/2017	12:50	3.1	WSW
11/07/2017	22:35	2.7	W	12/07/2017	05:45	0.4	NNE	12/07/2017	12:55	0.4	NNE
11/07/2017	22:40	3.1	W	12/07/2017	05:50	0.9	WSW	12/07/2017	13:00	0.9	NE
11/07/2017	22:45	2.2	WSW	12/07/2017	05:55	1.8	W	12/07/2017	13:05	0.4	SW
11/07/2017	22:50	1.8	SW	12/07/2017	06:00	2.7	W	12/07/2017	13:10	2.2	W
11/07/2017	22:55	3.1	W	12/07/2017	06:05	1.8	W	12/07/2017	13:15	0.4	ENE
11/07/2017	23:00	1.8	WSW	12/07/2017	06:10	1.3	N	12/07/2017	13:20	0.9	NE
11/07/2017	23:05	0.4	WSW	12/07/2017	06:15	0.9	ENE	12/07/2017	13:25	0.4	NNE
11/07/2017	23:10	1.3	WNW	12/07/2017	06:20	2.7	SW	12/07/2017	13:30	0.9	NNW
11/07/2017	23:15	0.9	SSE	12/07/2017	06:25	0.4	WSW	12/07/2017	13:35	1.3	W
11/07/2017	23:20	0.9	SSW	12/07/2017	06:30	1.3	ENE	12/07/2017	13:40	0.9	NNE
11/07/2017	23:25	1.3	WSW	12/07/2017	06:35	2.7	W	12/07/2017	13:45	0.9	NE
11/07/2017	23:30	0.9	WSW	12/07/2017	06:40	0.9	WSW	12/07/2017	13:50	3.1	W
11/07/2017	23:35	0.9	SW	12/07/2017	06:45	0.9	NNE	12/07/2017	13:55	0.9	SW
11/07/2017	23:40	0.4	SW	12/07/2017	06:50	0.4	NNE	12/07/2017	14:00	2.2	NE
11/07/2017	23:45	0.9	SSW	12/07/2017	06:55	0.9	WSW	12/07/2017	14:05	2.7	W
11/07/2017	23:50	2.7	WNW	12/07/2017	07:00	0.4	ENE	12/07/2017	14:10	3.1	SW
11/07/2017	23:55	2.7	WSW	12/07/2017	07:05	0.9	WSW	12/07/2017	14:15	2.7	W
12/07/2017	00:00	0.4	WSW	12/07/2017	07:10	1.3	W	12/07/2017	14:20	0.4	WSW
12/07/2017	00:05	0.4	N	12/07/2017	07:15	1.8	WSW	12/07/2017	14:25	0.9	SW
12/07/2017	00:10	0.9	WSW	12/07/2017	07:20	0.9	WSW	12/07/2017	14:30	0.4	WSW
12/07/2017	00:15	2.7	NE	12/07/2017	07:25	1.8	W	12/07/2017	14:35	0.9	NNE
12/07/2017	00:20	2.2	W	12/07/2017	07:30	0.9	WSW	12/07/2017	14:40	0.9	WSW
12/07/2017	00:25	1.3	ENE	12/07/2017	07:35	0.4	NNE	12/07/2017	14:45	2.2	WSW
12/07/2017	00:30	3.1	NE	12/07/2017	07:40	0.9	WSW	12/07/2017	14:50	1.8	NE
12/07/2017	00:35	0.4	SSW	12/07/2017	07:45	0.4	WSW	12/07/2017	14:55	1.3	N
12/07/2017	00:40	1.3	SW	12/07/2017	07:50	0.4	NNE	12/07/2017	15:00	0.4	WNW
12/07/2017	00:45	1.3	SW	12/07/2017	07:55	2.2	W	12/07/2017	15:05	3.1	WSW
12/07/2017	00:50	0.9	WSW	12/07/2017	08:00	2.7	SW	12/07/2017	15:10	3.1	NE
12/07/2017	00:55	2.2	W	12/07/2017	08:05	0.9	NNE	12/07/2017	15:15	0.4	NNE
12/07/2017	01:00	2.7	WSW	12/07/2017	08:10	0.9	NNW	12/07/2017	15:20	0.4	WSW
12/07/2017	01:05	0.4	WSW	12/07/2017	08:15	0.4	SSW	12/07/2017	15:25	1.3	N

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
12/07/2017	15:30	1.3	NNE	12/07/2017	22:40	0.9	WSW	13/05/2017	05:50	1.3	NNW
12/07/2017	15:35	2.7	W	12/07/2017	22:45	0.4	SSW	13/05/2017	05:55	1.8	N
12/07/2017	15:40	3.1	WSW	12/07/2017	22:50	0.9	WSW	13/05/2017	06:00	3.1	W
12/07/2017	15:45	0.4	NNE	12/07/2017	22:55	1.3	NNE	13/05/2017	06:05	1.8	NE
12/07/2017	15:50	0.9	WSW	12/07/2017	23:00	2.2	W	13/05/2017	06:10	1.3	SSW
12/07/2017	15:55	0.4	NNE	12/07/2017	23:05	0.9	NNW	13/05/2017	06:15	3.6	W
12/07/2017	16:00	1.3	SW	12/07/2017	23:10	1.3	NE	13/05/2017	06:20	2.7	SSW
12/07/2017	16:05	0.9	W	12/07/2017	23:15	1.3	W	13/05/2017	06:25	4.5	WNW
12/07/2017	16:10	0.4	NNE	12/07/2017	23:20	1.8	WSW	13/05/2017	06:30	0.9	N
12/07/2017	16:15	0.4	NW	12/07/2017	23:25	1.8	WSW	13/05/2017	06:35	0.9	S
12/07/2017	16:20	3.1	SW	12/07/2017	23:30	1.8	W	13/05/2017	06:40	0.9	S
12/07/2017	16:25	1.8	NE	12/07/2017	23:35	0.4	NW	13/05/2017	06:45	2.2	W
12/07/2017	16:30	0.4	NW	12/07/2017	23:40	2.7	W	13/05/2017	06:50	0.9	SSW
12/07/2017	16:35	2.2	WSW	12/07/2017	23:45	2.2	W	13/05/2017	06:55	4	WNW
12/07/2017	16:40	0.4	NNE	12/07/2017	23:50	3.1	WSW	13/05/2017	07:00	3.6	W
12/07/2017	16:45	1.3	N	12/07/2017	23:55	1.3	SW	13/05/2017	07:05	5.4	WNW
12/07/2017	16:50	0.4	NW	13/07/2017	00:00	1.3	NE	13/05/2017	07:10	0.9	SSW
12/07/2017	16:55	0.9	NNW	13/05/2017	00:05	1.8	NE	13/05/2017	07:15	2.2	SSW
12/07/2017	17:00	2.7	WSW	13/05/2017	00:10	1.3	SW	13/05/2017	07:20	2.2	NE
12/07/2017	17:05	2.2	W	13/05/2017	00:15	1.8	N	13/05/2017	07:25	1.3	WNW
12/07/2017	17:10	0.9	NE	13/05/2017	00:20	0.9	SSW	13/05/2017	07:30	4	WNW
12/07/2017	17:15	0.9	NNE	13/05/2017	00:25	0.4	SE	13/05/2017	07:35	2.2	W
12/07/2017	17:20	2.2	NE	13/05/2017	00:30	0.9	NW	13/05/2017	07:40	0.9	SSW
12/07/2017	17:25	2.7	W	13/05/2017	00:35	0.9	WSW	13/05/2017	07:45	4.9	WNW
12/07/2017	17:30	2.7	WSW	13/05/2017	00:40	0.9	NE	13/05/2017	07:50	0.4	S
12/07/2017	17:35	1.3	SW	13/05/2017	00:45	0.9	N	13/05/2017	07:55	0.9	SSW
12/07/2017	17:40	0.9	WNW	13/05/2017	00:50	0.9	SSW	13/05/2017	08:00	0.9	ENE
12/07/2017	17:45	0.4	NNE	13/05/2017	00:55	1.8	NE	13/05/2017	08:05	4.5	WNW
12/07/2017	17:50	1.3	N	13/05/2017	01:00	2.7	SSW	13/05/2017	08:10	0.9	WNW
12/07/2017	17:55	1.8	WNW	13/05/2017	01:05	1.3	WSW	13/05/2017	08:15	3.1	W
12/07/2017	18:00	3.6	WSW	13/05/2017	01:10	2.2	W	13/05/2017	08:20	0.4	SE
12/07/2017	18:05	0.4	NNE	13/05/2017	01:15	4	ENE	13/05/2017	08:25	2.2	WNW
12/07/2017	18:10	1.8	NE	13/05/2017	01:20	2.7	WNW	13/05/2017	08:30	5.4	WNW
12/07/2017	18:15	0.4	WSW	13/05/2017	01:25	2.2	WNW	13/05/2017	08:35	2.7	W
12/07/2017	18:20	2.7	WSW	13/05/2017	01:30	0.9	WSW	13/05/2017	08:40	3.1	W
12/07/2017	18:25	1.3	WSW	13/05/2017	01:35	2.2	SW	13/05/2017	08:45	0.9	SSW
12/07/2017	18:30	0.9	NE	13/05/2017	01:40	3.6	W	13/05/2017	08:50	0.9	S
12/07/2017	18:35	2.2	W	13/05/2017	01:45	4.5	WNW	13/05/2017	08:55	1.3	N
12/07/2017	18:40	2.2	NE	13/05/2017	01:50	4.5	WNW	13/05/2017	09:00	0.4	NW
12/07/2017	18:45	0.9	NNE	13/05/2017	01:55	0.4	S	13/05/2017	09:05	1.3	N
12/07/2017	18:50	0.9	WSW	13/05/2017	02:00	1.8	SW	13/05/2017	09:10	2.7	WNW
12/07/2017	18:55	2.7	WSW	13/05/2017	02:05	2.2	W	13/05/2017	09:15	0.9	S
12/07/2017	19:00	2.2	W	13/05/2017	02:10	1.8	SW	13/05/2017	09:20	4.9	WNW
12/07/2017	19:05	2.2	WSW	13/05/2017	02:15	5.4	ENE	13/05/2017	09:25	3.1	W
12/07/2017	19:10	0.9	WSW	13/05/2017	02:20	0.4	SE	13/05/2017	09:30	0.9	S
12/07/2017	19:15	0.4	NNE	13/05/2017	02:25	1.3	NNW	13/05/2017	09:35	4.9	WNW
12/07/2017	19:20	1.3	N	13/05/2017	02:30	0.9	SSW	13/05/2017	09:40	0.9	NW
12/07/2017	19:25	0.9	WNW	13/05/2017	02:35	3.1	WNW	13/05/2017	09:45	1.8	N
12/07/2017	19:30	1.3	NE	13/05/2017	02:40	3.6	W	13/05/2017	09:50	0.9	WSW
12/07/2017	19:35	0.9	WSW	13/05/2017	02:45	0.4	SSW	13/05/2017	09:55	0.4	SSW
12/07/2017	19:40	0.9	NE	13/05/2017	02:50	1.8	N	13/05/2017	10:00	4.5	NW
12/07/2017	19:45	0.9	WSW	13/05/2017	02:55	1.3	NE	13/05/2017	10:05	4.9	WNW
12/07/2017	19:50	0.4	NNE	13/05/2017	03:00	0.9	NE	13/05/2017	10:10	4.9	W
12/07/2017	19:55	0.9	NNE	13/05/2017	03:05	0.9	SE	13/05/2017	10:15	1.3	S
12/07/2017	20:00	0.9	WSW	13/05/2017	03:10	3.6	W	13/05/2017	10:20	1.3	S
12/07/2017	20:05	3.1	SW	13/05/2017	03:15	3.6	ENE	13/05/2017	10:25	1.3	NNW
12/07/2017	20:10	1.3	N	13/05/2017	03:20	0.4	SSW	13/05/2017	10:30	4.5	WNW
12/07/2017	20:15	0.4	SW	13/05/2017	03:25	1.8	N	13/05/2017	10:35	3.1	W
12/07/2017	20:20	0.9	WSW	13/05/2017	03:30	1.3	S	13/05/2017	10:40	1.3	S
12/07/2017	20:25	0.9	NNE	13/05/2017	03:35	2.7	W	13/05/2017	10:45	1.3	SW
12/07/2017	20:30	0.4	WSW	13/05/2017	03:40	1.8	N	13/05/2017	10:50	3.6	W
12/07/2017	20:35	1.3	N	13/05/2017	03:45	4.5	W	13/05/2017	10:55	0.4	SE
12/07/2017	20:40	1.3	W	13/05/2017	03:50	3.6	E	13/05/2017	11:00	2.7	WSW
12/07/2017	20:45	1.8	W	13/05/2017	03:55	1.3	S	13/05/2017	11:05	1.8	N
12/07/2017	20:50	0.9	WSW	13/05/2017	04:00	4.9	ENE	13/05/2017	11:10	1.8	NW
12/07/2017	20:55	2.7	W	13/05/2017	04:05	0.9	WSW	13/05/2017	11:15	4.9	WNW
12/07/2017	21:00	0.4	NNE	13/05/2017	04:10	0.9	NNW	13/05/2017	11:20	0.9	N
12/07/2017	21:05	0.9	NNE	13/05/2017	04:15	3.1	WNW	13/05/2017	11:25	0.9	SSW
12/07/2017	21:10	0.4	WSW	13/05/2017	04:20	0.4	S	13/05/2017	11:30	0.9	S
12/07/2017	21:15	0.9	NNW	13/05/2017	04:25	0.9	N	13/05/2017	11:35	1.3	SSW
12/07/2017	21:20	0.9	NE	13/05/2017	04:30	2.7	W	13/05/2017	11:40	4.5	ENE
12/07/2017	21:25	0.4	SW	13/05/2017	04:35	1.3	NNW	13/05/2017	11:45	0.9	SSW
12/07/2017	21:30	0.9	WSW	13/05/2017	04:40	2.2	SSW	13/05/2017	11:50	3.1	W
12/07/2017	21:35	1.8	W	13/05/2017	04:45	0.9	NE	13/05/2017	11:55	2.7	NE
12/07/2017	21:40	0.4	NW	13/05/2017	04:50	0.9	WNW	13/05/2017	12:00	3.1	E
12/07/2017	21:45	0.4	WSW	13/05/2017	04:55	0.9	SSW	13/05/2017	12:05	3.6	W
12/07/2017	21:50	1.8	NE	13/05/2017	05:00	4.9	W	13/05/2017	12:10	2.7	WNW
12/07/2017	21:55	0.4	SW	13/05/2017	05:05	1.3	W	13/05/2017	12:15	2.2	E
12/07/2017	22:00	0.4	E	13/05/2017	05:10	3.6	WNW	13/05/2017	12:20	2.2	W
12/07/2017	22:05	0.4	E	13/05/2017	05:15	4	WNW	13/05/2017	12:25	0.9	S
12/07/2017	22:10	2.2	WSW	13/05/2017	05:20	2.2	SW	13/05/2017	12:30	0.4	NW
12/07/2017	22:15	2.2	WSW	13/05/2017	05:25	4.9	WNW	13/05/2017	12:35	4	WNW
12/07/2017	22:20	2.2	WSW	13/05/2017	05:30	0.9	SW	13/05/2017	12:40	0.9	S
12/07/2017	22:25	0.9	WSW	13/05/2017	05:35	2.2	SW	13/05/2017	12:45	1.3	NE
12/07/2017	22:30	2.2	W	13/05/2017	05:40	0.4	SSW	13/05/2017	12:50	0.9	S
12/07/2017	22:35	2.7	WSW	13/05/2017	05:45	2.2	W	13/05/2017	12:55	0.9	SSW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
13/05/2017	13:00	2.2	N	13/05/2017	20:10	0.4	SSW	14/05/2017	03:20	2.7	WSW
13/05/2017	13:05	0.4	S	13/05/2017	20:15	2.2	NE	14/05/2017	03:25	0.9	SW
13/05/2017	13:10	0.4	SSW	13/05/2017	20:20	3.1	W	14/05/2017	03:30	5.4	W
13/05/2017	13:15	1.3	W	13/05/2017	20:25	2.7	N	14/05/2017	03:35	1.8	ENE
13/05/2017	13:20	1.3	N	13/05/2017	20:30	1.3	N	14/05/2017	03:40	0.9	N
13/05/2017	13:25	2.2	NW	13/05/2017	20:35	4.5	WNW	14/05/2017	03:45	0.9	ENE
13/05/2017	13:30	0.9	S	13/05/2017	20:40	3.6	E	14/05/2017	03:50	0.4	SE
13/05/2017	13:35	2.2	ENE	13/05/2017	20:45	0.4	S	14/05/2017	03:55	0.4	NNE
13/05/2017	13:40	2.7	W	13/05/2017	20:50	1.3	ENE	14/05/2017	04:00	1.3	SSW
13/05/2017	13:45	1.3	NNW	13/05/2017	20:55	1.8	WSW	14/05/2017	04:05	0.9	ESE
13/05/2017	13:50	1.8	E	13/05/2017	21:00	0.9	N	14/05/2017	04:10	1.3	N
13/05/2017	13:55	1.3	NE	13/05/2017	21:05	1.3	NNW	14/05/2017	04:15	0.4	SSW
13/05/2017	14:00	0.9	ENE	13/05/2017	21:10	4.5	WNW	14/05/2017	04:20	0.9	NNW
13/05/2017	14:05	3.1	NE	13/05/2017	21:15	2.2	N	14/05/2017	04:25	0.4	SSW
13/05/2017	14:10	0.9	ENE	13/05/2017	21:20	1.8	NNE	14/05/2017	04:30	1.8	W
13/05/2017	14:15	0.9	SSW	13/05/2017	21:25	4.5	W	14/05/2017	04:35	0.9	NNW
13/05/2017	14:20	0.9	NE	13/05/2017	21:30	0.9	SE	14/05/2017	04:40	0.9	WNW
13/05/2017	14:25	0.9	S	13/05/2017	21:35	0.4	NNE	14/05/2017	04:45	1.3	WSW
13/05/2017	14:30	2.7	WNW	13/05/2017	21:40	3.1	W	14/05/2017	04:50	0.9	N
13/05/2017	14:35	4.5	ENE	13/05/2017	21:45	4	NW	14/05/2017	04:55	4.5	WSW
13/05/2017	14:40	0.9	WNW	13/05/2017	21:50	2.2	W	14/05/2017	05:00	0.4	ESE
13/05/2017	14:45	1.3	SSW	13/05/2017	21:55	0.4	SE	14/05/2017	05:05	2.2	E
13/05/2017	14:50	0.9	ENE	13/05/2017	22:00	2.2	N	14/05/2017	05:10	0.9	WSW
13/05/2017	14:55	4	W	13/05/2017	22:05	0.9	SSW	14/05/2017	05:15	0.9	NNW
13/05/2017	15:00	0.4	NNW	13/05/2017	22:10	4.5	ENE	14/05/2017	05:20	3.1	NE
13/05/2017	15:05	1.8	WNW	13/05/2017	22:15	2.2	WNW	14/05/2017	05:25	2.2	ENE
13/05/2017	15:10	3.1	E	13/05/2017	22:20	2.2	N	14/05/2017	05:30	0.9	SW
13/05/2017	15:15	2.7	W	13/05/2017	22:25	3.6	WNW	14/05/2017	05:35	0.9	ESE
13/05/2017	15:20	5.4	WNW	13/05/2017	22:30	4.5	WNW	14/05/2017	05:40	0.9	SW
13/05/2017	15:25	1.8	W	13/05/2017	22:35	0.4	SSW	14/05/2017	05:45	0.9	S
13/05/2017	15:30	0.9	SSW	13/05/2017	22:40	3.1	W	14/05/2017	05:50	3.1	NE
13/05/2017	15:35	4.5	WNW	13/05/2017	22:45	1.3	NE	14/05/2017	05:55	2.2	E
13/05/2017	15:40	1.3	N	13/05/2017	22:50	4.5	WNW	14/05/2017	06:00	0.9	NE
13/05/2017	15:45	5.4	ENE	13/05/2017	22:55	1.3	NE	14/05/2017	06:05	3.1	E
13/05/2017	15:50	0.9	SSW	13/05/2017	23:00	0.9	NNW	14/05/2017	06:10	1.3	NE
13/05/2017	15:55	0.9	NNE	13/05/2017	23:05	1.3	ESE	14/05/2017	06:15	1.3	SW
13/05/2017	16:00	1.8	SW	13/05/2017	23:10	2.2	WNW	14/05/2017	06:20	0.9	E
13/05/2017	16:05	4.5	ENE	13/05/2017	23:15	0.9	SSW	14/05/2017	06:25	0.4	ESE
13/05/2017	16:10	4	W	13/05/2017	23:20	4.9	WNW	14/05/2017	06:30	1.3	ESE
13/05/2017	16:15	1.8	WNW	13/05/2017	23:25	2.7	W	14/05/2017	06:35	2.7	NE
13/05/2017	16:20	4	E	13/05/2017	23:30	2.2	WNW	14/05/2017	06:40	1.8	WSW
13/05/2017	16:25	2.2	NNW	13/05/2017	23:35	0.9	WSW	14/05/2017	06:45	0.4	SSW
13/05/2017	16:30	0.9	WSW	13/05/2017	23:40	0.9	SSW	14/05/2017	06:50	1.3	E
13/05/2017	16:35	1.3	WSW	13/05/2017	23:45	0.4	S	14/05/2017	06:55	0.9	WSW
13/05/2017	16:40	2.2	NW	13/05/2017	23:50	1.3	W	14/05/2017	07:00	4.5	WSW
13/05/2017	16:45	2.7	NE	13/05/2017	23:55	4	W	14/05/2017	07:05	0.4	SE
13/05/2017	16:50	4.5	WNW	14/05/2017	00:00	2.7	SSW	14/05/2017	07:10	0.9	SE
13/05/2017	16:55	3.6	W	14/05/2017	00:05	1.3	N	14/05/2017	07:15	4.9	WSW
13/05/2017	17:00	4.9	WNW	14/05/2017	00:10	2.7	WSW	14/05/2017	07:20	0.4	NE
13/05/2017	17:05	3.6	WNW	14/05/2017	00:15	0.4	N	14/05/2017	07:25	2.7	WSW
13/05/2017	17:10	1.8	NW	14/05/2017	00:20	2.2	ENE	14/05/2017	07:30	0.4	SSW
13/05/2017	17:15	0.4	WSW	14/05/2017	00:25	5.4	W	14/05/2017	07:35	0.4	E
13/05/2017	17:20	1.3	N	14/05/2017	00:30	0.4	NE	14/05/2017	07:40	2.2	ENE
13/05/2017	17:25	2.2	WNW	14/05/2017	00:35	1.8	WSW	14/05/2017	07:45	0.4	E
13/05/2017	17:30	0.9	WNW	14/05/2017	00:40	1.8	E	14/05/2017	07:50	1.3	N
13/05/2017	17:35	0.4	NNW	14/05/2017	00:45	0.4	ENE	14/05/2017	07:55	0.4	SE
13/05/2017	17:40	1.8	N	14/05/2017	00:50	0.9	ESE	14/05/2017	08:00	1.8	N
13/05/2017	17:45	3.1	WNW	14/05/2017	00:55	1.8	ENE	14/05/2017	08:05	2.2	E
13/05/2017	17:50	0.9	WSW	14/05/2017	01:00	1.3	SW	14/05/2017	08:10	2.2	NE
13/05/2017	17:55	0.9	NW	14/05/2017	01:05	0.4	NW	14/05/2017	08:15	2.2	WSW
13/05/2017	18:00	4.5	W	14/05/2017	01:10	0.4	ESE	14/05/2017	08:20	1.3	E
13/05/2017	18:05	4.9	E	14/05/2017	01:15	2.7	W	14/05/2017	08:25	1.8	NE
13/05/2017	18:10	2.7	W	14/05/2017	01:20	1.8	ENE	14/05/2017	08:30	0.9	NE
13/05/2017	18:15	2.2	WNW	14/05/2017	01:25	1.3	E	14/05/2017	08:35	1.8	N
13/05/2017	18:20	4	ENE	14/05/2017	01:30	1.8	WSW	14/05/2017	08:40	1.3	NNE
13/05/2017	18:25	2.2	E	14/05/2017	01:35	1.3	SSW	14/05/2017	08:45	2.7	NE
13/05/2017	18:30	3.1	W	14/05/2017	01:40	0.4	NNE	14/05/2017	08:50	3.1	E
13/05/2017	18:35	4.9	WNW	14/05/2017	01:45	2.2	NE	14/05/2017	08:55	0.4	E
13/05/2017	18:40	4.9	ENE	14/05/2017	01:50	3.1	NE	14/05/2017	09:00	0.4	NNE
13/05/2017	18:45	2.2	N	14/05/2017	01:55	0.4	WSW	14/05/2017	09:05	0.9	NNE
13/05/2017	18:50	0.9	NNW	14/05/2017	02:00	1.8	WSW	14/05/2017	09:10	1.8	NE
13/05/2017	18:55	0.9	NNW	14/05/2017	02:05	1.3	E	14/05/2017	09:15	0.4	NNE
13/05/2017	19:00	2.2	N	14/05/2017	02:10	1.3	NE	14/05/2017	09:20	1.3	SW
13/05/2017	19:05	4	ENE	14/05/2017	02:15	3.1	E	14/05/2017	09:25	0.9	SSE
13/05/2017	19:10	1.3	NNW	14/05/2017	02:20	3.1	ENE	14/05/2017	09:30	0.4	W
13/05/2017	19:15	1.3	ENE	14/05/2017	02:25	0.9	SSW	14/05/2017	09:35	1.3	ENE
13/05/2017	19:20	0.4	NW	14/05/2017	02:30	1.3	WSW	14/05/2017	09:40	0.4	SSE
13/05/2017	19:25	1.3	S	14/05/2017	02:35	0.4	N	14/05/2017	09:45	1.3	NW
13/05/2017	19:30	4.9	WNW	14/05/2017	02:40	0.4	WSW	14/05/2017	09:50	2.2	WSW
13/05/2017	19:35	4.9	WNW	14/05/2017	02:45	1.8	NE	14/05/2017	09:55	2.2	E
13/05/2017	19:40	0.9	WSW	14/05/2017	02:50	0.9	E	14/05/2017	10:00	0.9	N
13/05/2017	19:45	0.9	NNE	14/05/2017	02:55	4	WSW	14/05/2017	10:05	0.9	ESE
13/05/2017	19:50	3.6	W	14/05/2017	03:00	2.7	W	14/05/2017	10:10	0.4	E
13/05/2017	19:55	2.7	WSW	14/05/2017	03:05	0.9	E	14/05/2017	10:15	1.3	ENE
13/05/2017	20:00	3.6	W	14/05/2017	03:10	2.7	NE	14/05/2017	10:20	0.4	N
13/05/2017	20:05	0.4	WSW	14/05/2017	03:15	4.5	WSW	14/05/2017	10:25	0.9	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
14/05/2017	10:30	0.9	E
14/05/2017	10:35	1.3	ENE
14/05/2017	10:40	0.9	E
14/05/2017	10:45	1.3	ENE
14/05/2017	10:50	0.9	SE
14/05/2017	10:55	0.4	N
14/05/2017	11:00	4.9	W
14/05/2017	11:05	1.8	NNE
14/05/2017	11:10	3.1	WSW
14/05/2017	11:15	0.4	NNE
14/05/2017	11:20	3.1	E
14/05/2017	11:25	2.2	E
14/05/2017	11:30	2.2	WSW
14/05/2017	11:35	1.3	WSW
14/05/2017	11:40	1.3	E
14/05/2017	11:45	1.3	E
14/05/2017	11:50	0.9	NE
14/05/2017	11:55	0.4	SSW
14/05/2017	12:00	0.4	E
14/05/2017	12:05	0.4	SSW
14/05/2017	12:10	0.4	E
14/05/2017	12:15	0.4	SSW
14/05/2017	12:20	0.9	ESE
14/05/2017	12:25	3.1	NE
14/05/2017	12:30	0.9	N
14/05/2017	12:35	0.9	NE
14/05/2017	12:40	2.2	W
14/05/2017	12:45	3.1	WSW
14/05/2017	12:50	1.8	W
14/05/2017	12:55	1.3	SW
14/05/2017	13:00	3.1	E
14/05/2017	13:05	0.9	SSE
14/05/2017	13:10	0.9	ESE
14/05/2017	13:15	0.4	SSW
14/05/2017	13:20	4.9	WSW
14/05/2017	13:25	0.4	N
14/05/2017	13:30	2.2	NE
14/05/2017	13:35	1.3	NE
14/05/2017	13:40	0.9	SW
14/05/2017	13:45	0.9	SSE
14/05/2017	13:50	0.9	N
14/05/2017	13:55	1.3	E
14/05/2017	14:00	1.8	N
14/05/2017	14:05	2.2	ENE
14/05/2017	14:10	0.9	SSW
14/05/2017	14:15	1.3	ESE
14/05/2017	14:20	1.3	SW
14/05/2017	14:25	1.3	SE
14/05/2017	14:30	1.3	ENE
14/05/2017	14:35	0.4	E
14/05/2017	14:40	1.8	E
14/05/2017	14:45	0.4	E
14/05/2017	14:50	0.9	E
14/05/2017	14:55	3.1	E
14/05/2017	15:00	1.3	N
14/05/2017	15:05	0.9	SW
14/05/2017	15:10	0.9	ESE
14/05/2017	15:15	0.9	SSW
14/05/2017	15:20	2.2	WSW
14/05/2017	15:25	0.9	SSW
14/05/2017	15:30	0.4	SSW
14/05/2017	15:35	2.2	SW
14/05/2017	15:40	1.3	NNE
14/05/2017	15:45	1.3	SW
14/05/2017	15:50	0.9	NW
14/05/2017	15:55	1.8	N
14/05/2017	16:00	1.3	NNW
14/05/2017	16:05	0.4	E
14/05/2017	16:10	1.3	SSW
14/05/2017	16:15	0.4	E
14/05/2017	16:20	4.5	WSW
14/05/2017	16:25	0.4	SE
14/05/2017	16:30	2.2	E
14/05/2017	16:35	0.4	WSW
14/05/2017	16:40	4.9	W
14/05/2017	16:45	2.2	E
14/05/2017	16:50	3.1	NE
14/05/2017	16:55	0.4	E
14/05/2017	17:00	2.2	WSW
14/05/2017	17:05	2.2	NE
14/05/2017	17:10	0.4	E
14/05/2017	17:15	0.4	SSW
14/05/2017	17:20	2.7	WSW
14/05/2017	17:25	0.4	E
14/05/2017	17:30	1.3	NE
14/05/2017	17:35	0.4	SSW
14/05/2017	17:40	0.9	N
14/05/2017	17:45	0.9	NNW
14/05/2017	17:50	0.9	SSE
14/05/2017	17:55	0.9	NNE
14/05/2017	18:00	0.4	SE
14/05/2017	18:05	1.3	E
14/05/2017	18:10	0.4	NNE
14/05/2017	18:15	1.3	NNW
14/05/2017	18:20	0.4	E
14/05/2017	18:25	0.4	NNE
14/05/2017	18:30	0.9	NNE
14/05/2017	18:35	0.9	WNW
14/05/2017	18:40	0.9	ESE
14/05/2017	18:45	2.7	WSW
14/05/2017	18:50	0.4	NNE
14/05/2017	18:55	1.3	WSW
14/05/2017	19:00	1.3	SW
14/05/2017	19:05	0.9	NNW
14/05/2017	19:10	4.5	WSW
14/05/2017	19:15	0.9	ESE
14/05/2017	19:20	0.4	SE
14/05/2017	19:25	2.7	NE
14/05/2017	19:30	0.9	SW
14/05/2017	19:35	2.2	WSW
14/05/2017	19:40	4.5	W
14/05/2017	19:45	0.9	E
14/05/2017	19:50	4.5	W
14/05/2017	19:55	1.8	WSW
14/05/2017	20:00	0.4	SSW
14/05/2017	20:05	2.7	NE
14/05/2017	20:10	0.9	NNE
14/05/2017	20:15	1.8	E
14/05/2017	20:20	0.4	SE
14/05/2017	20:25	2.2	ENE
14/05/2017	20:30	0.4	ESE
14/05/2017	20:35	1.3	ESE
14/05/2017	20:40	2.7	NE
14/05/2017	20:45	0.9	ENE
14/05/2017	20:50	0.4	SE
14/05/2017	20:55	2.7	NE
14/05/2017	21:00	0.4	E
14/05/2017	21:05	1.3	NE
14/05/2017	21:10	2.2	WSW
14/05/2017	21:15	0.9	ENE
14/05/2017	21:20	0.9	N
14/05/2017	21:25	1.8	ENE
14/05/2017	21:30	0.4	E
14/05/2017	21:35	2.2	WSW
14/05/2017	21:40	2.2	ENE
14/05/2017	21:45	5.4	W
14/05/2017	21:50	2.2	NE
14/05/2017	21:55	0.4	N
14/05/2017	22:00	0.9	SW
14/05/2017	22:05	2.2	E
14/05/2017	22:10	1.3	NNW
14/05/2017	22:15	0.4	N
14/05/2017	22:20	1.8	W
14/05/2017	22:25	0.4	SE
14/05/2017	22:30	1.8	W
14/05/2017	22:35	1.3	SSW
14/05/2017	22:40	0.9	NNW
14/05/2017	22:45	0.4	WSW
14/05/2017	22:50	0.4	ESE
14/05/2017	22:55	2.2	ENE
14/05/2017	23:00	2.2	ENE
14/05/2017	23:05	1.8	ENE
14/05/2017	23:10	2.2	ENE
14/05/2017	23:15	1.3	E
14/05/2017	23:20	0.4	NNE
14/05/2017	23:25	4	W
14/05/2017	23:30	1.8	ENE
14/05/2017	23:35	2.2	WSW
14/05/2017	23:40	0.4	NW
14/05/2017	23:45	2.7	NE
14/05/2017	23:50	1.3	ENE
14/05/2017	23:55	1.8	E
15/05/2017	00:00	0.4	ENE
15/07/2017	00:05	0.4	SE
15/07/2017	00:10	2.2	W
15/07/2017	00:15	0.9	S
15/07/2017	00:20	1.3	WSW
15/07/2017	00:25	2.2	N
15/07/2017	00:30	1.8	NNE
15/07/2017	00:35	2.7	WNW
15/07/2017	00:40	1.3	NE
15/07/2017	00:45	1.3	ESE
15/07/2017	00:50	1.3	E
15/07/2017	00:55	1.3	WSW
15/07/2017	01:00	1.3	E
15/07/2017	01:05	2.2	W
15/07/2017	01:10	1.3	WSW
15/07/2017	01:15	2.2	N
15/07/2017	01:20	0.4	ESE
15/07/2017	01:25	1.3	WSW
15/07/2017	01:30	0.9	S
15/07/2017	01:35	2.7	WNW
15/07/2017	01:40	1.3	ENE
15/07/2017	01:45	1.8	NNE
15/07/2017	01:50	0.9	SSW
15/07/2017	01:55	0.4	SSW
15/07/2017	02:00	1.8	W
15/07/2017	02:05	1.8	NNE
15/07/2017	02:10	1.8	NNE
15/07/2017	02:15	0.4	S
15/07/2017	02:20	1.8	SW
15/07/2017	02:25	1.3	NNE
15/07/2017	02:30	1.8	W
15/07/2017	02:35	1.8	NNW
15/07/2017	02:40	0.9	SSE
15/07/2017	02:45	2.2	WSW
15/07/2017	02:50	0.4	WSW
15/07/2017	02:55	0.9	W
15/07/2017	03:00	3.6	WSW
15/07/2017	03:05	0.4	SSE
15/07/2017	03:10	0.9	S
15/07/2017	03:15	0.4	SE
15/07/2017	03:20	0.4	E
15/07/2017	03:25	2.7	W
15/07/2017	03:30	0.9	WSW
15/07/2017	03:35	0.9	NW
15/07/2017	03:40	1.3	WNW
15/07/2017	03:45	1.8	NE
15/07/2017	03:50	2.2	WNW
15/07/2017	03:55	1.8	NE
15/07/2017	04:00	0.4	S
15/07/2017	04:05	1.3	N
15/07/2017	04:10	1.3	N
15/07/2017	04:15	0.9	ESE
15/07/2017	04:20	1.8	N
15/07/2017	04:25	0.9	ESE
15/07/2017	04:30	1.8	NNW
15/07/2017	04:35	0.9	E
15/07/2017	04:40	1.3	WSW
15/07/2017	04:45	0.9	W
15/07/2017	04:50	1.8	N
15/07/2017	04:55	1.3	ESE
15/07/2017	05:00	2.2	N
15/07/2017	05:05	2.2	W
15/07/2017	05:10	1.3	WNW
15/07/2017	05:15	0.4	SSW
15/07/2017	05:20	1.3	NNE
15/07/2017	05:25	0.4	E
15/07/2017	05:30	0.4	WSW
15/07/2017	05:35	1.3	W
15/07/2017	05:40	0.9	WSW
15/07/2017	05:45	0.4	SSW
15/07/2017	05:50	2.2	N
15/07/2017	05:55	0.4	ESE
15/07/2017	06:00	2.7	SW
15/07/2017	06:05	3.1	W
15/07/2017	06:10	0.4	SE
15/07/2017	06:15	1.8	NNE
15/07/2017	06:20	1.8	NNE
15/07/2017	06:25	0.9	E
15/07/2017	06:30	1.8	NNE
15/07/2017	06:35	2.2	N
15/07/2017	06:40	0.4	SSW
15/07/2017	06:45	0.4	SE
15/07/2017	06:50	0.4	SSW
15/07/2017	06:55	1.3	E
15/07/2017	07:00	0.4	SSE
15/07/2017	07:05	1.8	N
15/07/2017	07:10	1.3	NNE
15/07/2017	07:15	1.8	NNE
15/07/2017	07:20	0.9	SE
15/07/2017	07:25	1.8	NNW
15/07/2017	07:30	1.8	NNE
15/07/2017	07:35	1.8	NE
15/07/2017	07:40	2.2	W
15/07/2017	07:45	0.9	SSW
15/07/2017	07:50	1.8	WNW
15/07/2017	07:55	2.7	W

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
15/07/2017	08:00	1.3	SW	15/07/2017	15:10	0.9	E	15/07/2017	22:20	1.8	N
15/07/2017	08:05	1.3	ENE	15/07/2017	15:15	1.3	WSW	15/07/2017	22:25	0.4	SE
15/07/2017	08:10	0.9	SSW	15/07/2017	15:20	1.8	NE	15/07/2017	22:30	0.4	SSW
15/07/2017	08:15	0.9	ESE	15/07/2017	15:25	2.7	W	15/07/2017	22:35	2.7	W
15/07/2017	08:20	1.3	NNW	15/07/2017	15:30	0.4	NW	15/07/2017	22:40	1.3	NE
15/07/2017	08:25	0.4	SE	15/07/2017	15:35	1.8	N	15/07/2017	22:45	1.3	NE
15/07/2017	08:30	1.8	N	15/07/2017	15:40	1.3	SW	15/07/2017	22:50	1.8	W
15/07/2017	08:35	1.3	E	15/07/2017	15:45	1.3	NNE	15/07/2017	22:55	0.4	SE
15/07/2017	08:40	0.9	SSW	15/07/2017	15:50	1.3	E	15/07/2017	23:00	1.8	N
15/07/2017	08:45	2.7	WNW	15/07/2017	15:55	0.9	SSW	15/07/2017	23:05	1.8	SSW
15/07/2017	08:50	0.4	SSW	15/07/2017	16:00	1.3	SSW	15/07/2017	23:10	1.8	ESE
15/07/2017	08:55	0.4	S	15/07/2017	16:05	0.4	ESE	15/07/2017	23:15	1.8	NNW
15/07/2017	09:00	0.4	SE	15/07/2017	16:10	1.8	N	15/07/2017	23:20	1.3	E
15/07/2017	09:05	1.3	E	15/07/2017	16:15	1.3	SSW	15/07/2017	23:25	0.9	S
15/07/2017	09:10	0.9	E	15/07/2017	16:20	0.4	SSW	15/07/2017	23:30	1.3	WSW
15/07/2017	09:15	1.3	NE	15/07/2017	16:25	0.9	SSW	15/07/2017	23:35	1.3	ENE
15/07/2017	09:20	2.2	WNW	15/07/2017	16:30	0.4	SE	15/07/2017	23:40	1.3	S
15/07/2017	09:25	1.3	ENE	15/07/2017	16:35	2.7	SSW	15/07/2017	23:45	1.8	NNW
15/07/2017	09:30	0.4	SSW	15/07/2017	16:40	1.8	ESE	15/07/2017	23:50	1.8	NNE
15/07/2017	09:35	0.9	E	15/07/2017	16:45	2.7	W	15/07/2017	23:55	1.8	W
15/07/2017	09:40	0.9	E	15/07/2017	16:50	1.3	WSW	16/07/2017	00:00	0.4	SE
15/07/2017	09:45	2.7	WNW	15/07/2017	16:55	1.8	NNE	16/07/2017	00:05	4	ENE
15/07/2017	09:50	0.4	E	15/07/2017	17:00	1.8	NNE	16/07/2017	00:10	5.4	E
15/07/2017	09:55	1.8	N	15/07/2017	17:05	0.4	SSW	16/07/2017	00:15	2.7	ENE
15/07/2017	10:00	1.8	N	15/07/2017	17:10	1.3	WSW	16/07/2017	00:20	4.5	ENE
15/07/2017	10:05	1.8	N	15/07/2017	17:15	0.4	E	16/07/2017	00:25	4.5	ENE
15/07/2017	10:10	0.4	E	15/07/2017	17:20	0.9	SE	16/07/2017	00:30	3.6	ENE
15/07/2017	10:15	0.4	SSW	15/07/2017	17:25	0.9	NW	16/07/2017	00:35	4.5	ENE
15/07/2017	10:20	0.4	WSW	15/07/2017	17:30	2.7	WSW	16/07/2017	00:40	2.2	WSW
15/07/2017	10:25	1.3	SW	15/07/2017	17:35	0.4	SSW	16/07/2017	00:45	2.7	NW
15/07/2017	10:30	2.7	W	15/07/2017	17:40	1.3	WSW	16/07/2017	00:50	0.9	NNE
15/07/2017	10:35	0.4	SSW	15/07/2017	17:45	1.8	N	16/07/2017	00:55	5.4	E
15/07/2017	10:40	0.4	SE	15/07/2017	17:50	1.8	NW	16/07/2017	01:00	2.7	NW
15/07/2017	10:45	1.8	NNW	15/07/2017	17:55	1.8	NE	16/07/2017	01:05	4.9	E
15/07/2017	10:50	0.4	SSW	15/07/2017	18:00	0.4	SE	16/07/2017	01:10	4	E
15/07/2017	10:55	1.8	NNE	15/07/2017	18:05	0.4	WSW	16/07/2017	01:15	6.7	ENE
15/07/2017	11:00	1.8	NE	15/07/2017	18:10	1.3	SSW	16/07/2017	01:20	3.6	NE
15/07/2017	11:05	2.2	SW	15/07/2017	18:15	0.9	S	16/07/2017	01:25	1.8	SSW
15/07/2017	11:10	1.3	NNE	15/07/2017	18:20	0.4	SSW	16/07/2017	01:30	3.1	NE
15/07/2017	11:15	3.6	SW	15/07/2017	18:25	0.9	SSW	16/07/2017	01:35	3.1	ENE
15/07/2017	11:20	1.3	SSW	15/07/2017	18:30	1.3	NNE	16/07/2017	01:40	4	ENE
15/07/2017	11:25	0.4	SSW	15/07/2017	18:35	0.4	SSW	16/07/2017	01:45	3.1	ENE
15/07/2017	11:30	2.2	ENE	15/07/2017	18:40	0.9	N	16/07/2017	01:50	3.1	ENE
15/07/2017	11:35	2.7	W	15/07/2017	18:45	0.9	E	16/07/2017	01:55	2.2	E
15/07/2017	11:40	0.4	SSW	15/07/2017	18:50	1.3	NW	16/07/2017	02:00	6.7	ENE
15/07/2017	11:45	1.8	NNE	15/07/2017	18:55	0.4	SSW	16/07/2017	02:05	3.6	ENE
15/07/2017	11:50	0.4	WSW	15/07/2017	19:00	3.6	WSW	16/07/2017	02:10	4	ENE
15/07/2017	11:55	0.9	ESE	15/07/2017	19:05	0.9	NW	16/07/2017	02:15	1.3	ENE
15/07/2017	12:00	0.4	ESE	15/07/2017	19:10	0.4	SSW	16/07/2017	02:20	1.8	NNE
15/07/2017	12:05	1.3	N	15/07/2017	19:15	1.8	NNE	16/07/2017	02:25	2.7	ENE
15/07/2017	12:10	1.3	WNW	15/07/2017	19:20	0.4	SSW	16/07/2017	02:30	1.8	ENE
15/07/2017	12:15	0.9	NNW	15/07/2017	19:25	0.4	SSW	16/07/2017	02:35	2.7	E
15/07/2017	12:20	1.3	E	15/07/2017	19:30	0.4	WSW	16/07/2017	02:40	5.4	E
15/07/2017	12:25	0.4	S	15/07/2017	19:35	0.9	SSE	16/07/2017	02:45	4.9	E
15/07/2017	12:30	0.9	SSW	15/07/2017	19:40	0.4	ESE	16/07/2017	02:50	1.8	SSW
15/07/2017	12:35	0.4	ESE	15/07/2017	19:45	0.9	SSW	16/07/2017	02:55	2.7	ENE
15/07/2017	12:40	0.4	NE	15/07/2017	19:50	1.3	E	16/07/2017	03:00	3.1	WSW
15/07/2017	12:45	2.7	WSW	15/07/2017	19:55	1.3	SW	16/07/2017	03:05	3.1	ENE
15/07/2017	12:50	0.4	ESE	15/07/2017	20:00	1.3	SSW	16/07/2017	03:10	1.3	SSW
15/07/2017	12:55	0.9	WSW	15/07/2017	20:05	1.8	NNW	16/07/2017	03:15	5.4	E
15/07/2017	13:00	1.8	W	15/07/2017	20:10	0.4	SE	16/07/2017	03:20	3.6	NE
15/07/2017	13:05	0.9	WSW	15/07/2017	20:15	3.1	SW	16/07/2017	03:25	3.1	WSW
15/07/2017	13:10	0.9	SSE	15/07/2017	20:20	1.8	N	16/07/2017	03:30	2.7	W
15/07/2017	13:15	1.3	NNE	15/07/2017	20:25	0.4	SE	16/07/2017	03:35	2.2	ENE
15/07/2017	13:20	0.4	SSW	15/07/2017	20:30	3.6	W	16/07/2017	03:40	5.4	ENE
15/07/2017	13:25	2.7	WSW	15/07/2017	20:35	0.4	SW	16/07/2017	03:45	1.3	SSW
15/07/2017	13:30	0.4	SE	15/07/2017	20:40	0.4	SSW	16/07/2017	03:50	2.7	ENE
15/07/2017	13:35	0.9	E	15/07/2017	20:45	1.8	NNW	16/07/2017	03:55	0.9	NNE
15/07/2017	13:40	0.4	WNW	15/07/2017	20:50	0.9	SSW	16/07/2017	04:00	4.5	E
15/07/2017	13:45	0.4	SSW	15/07/2017	20:55	0.4	SSW	16/07/2017	04:05	5.8	ENE
15/07/2017	13:50	2.7	WSW	15/07/2017	21:00	0.4	WSW	16/07/2017	04:10	1.8	NNE
15/07/2017	13:55	1.3	NW	15/07/2017	21:05	0.4	SE	16/07/2017	04:15	2.7	NW
15/07/2017	14:00	1.8	N	15/07/2017	21:10	1.8	N	16/07/2017	04:20	4	ENE
15/07/2017	14:05	1.3	E	15/07/2017	21:15	0.4	SE	16/07/2017	04:25	2.7	ENE
15/07/2017	14:10	2.7	WSW	15/07/2017	21:20	0.4	SE	16/07/2017	04:30	1.8	W
15/07/2017	14:15	1.8	NNW	15/07/2017	21:25	1.3	E	16/07/2017	04:35	4.5	ENE
15/07/2017	14:20	0.9	NNW	15/07/2017	21:30	0.4	SE	16/07/2017	04:40	4.9	ENE
15/07/2017	14:25	0.4	NNW	15/07/2017	21:35	1.3	N	16/07/2017	04:45	5.8	ENE
15/07/2017	14:30	1.3	N	15/07/2017	21:40	0.9	SSW	16/07/2017	04:50	4	NE
15/07/2017	14:35	2.7	WNW	15/07/2017	21:45	0.4	SW	16/07/2017	04:55	2.7	ENE
15/07/2017	14:40	0.4	E	15/07/2017	21:50	1.3	ESE	16/07/2017	05:00	1.8	NE
15/07/2017	14:45	2.7	WNW	15/07/2017	21:55	2.2	WNW	16/07/2017	05:05	4.5	ENE
15/07/2017	14:50	2.7	W	15/07/2017	22:00	1.3	N	16/07/2017	05:10	4.9	E
15/07/2017	14:55	0.4	SSW	15/07/2017	22:05	2.7	N	16/07/2017	05:15	1.8	W
15/07/2017	15:00	0.4	E	15/07/2017	22:10	0.4	SSW	16/07/2017	05:20	4.9	E
15/07/2017	15:05	2.7	WSW	15/07/2017	22:15	0.4	SSW	16/07/2017	05:25	6.7	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
16/07/2017	05:30	4.5	ENE	16/07/2017	12:40	4.5	NE	16/07/2017	19:50	4.5	ENE
16/07/2017	05:35	5.4	E	16/07/2017	12:45	4	NE	16/07/2017	19:55	5.4	ENE
16/07/2017	05:40	3.1	E	16/07/2017	12:50	2.7	ENE	16/07/2017	20:00	2.7	ENE
16/07/2017	05:45	3.6	ENE	16/07/2017	12:55	4	ENE	16/07/2017	20:05	5.4	ENE
16/07/2017	05:50	4.9	E	16/07/2017	13:00	4.5	ENE	16/07/2017	20:10	3.1	ENE
16/07/2017	05:55	5.4	E	16/07/2017	13:05	5.4	ENE	16/07/2017	20:15	4.5	ENE
16/07/2017	06:00	4.9	ENE	16/07/2017	13:10	4	NE	16/07/2017	20:20	4	ENE
16/07/2017	06:05	5.4	E	16/07/2017	13:15	4.5	ENE	16/07/2017	20:25	2.7	ENE
16/07/2017	06:10	4.5	E	16/07/2017	13:20	3.6	NW	16/07/2017	20:30	4	ENE
16/07/2017	06:15	2.7	E	16/07/2017	13:25	5.4	ENE	16/07/2017	20:35	3.6	ENE
16/07/2017	06:20	3.6	NW	16/07/2017	13:30	3.6	NNE	16/07/2017	20:40	4.5	ENE
16/07/2017	06:25	4	ENE	16/07/2017	13:35	4.5	ENE	16/07/2017	20:45	4	ENE
16/07/2017	06:30	2.2	NW	16/07/2017	13:40	3.6	ENE	16/07/2017	20:50	1.8	ENE
16/07/2017	06:35	2.2	WSW	16/07/2017	13:45	3.6	ENE	16/07/2017	20:55	4.5	ENE
16/07/2017	06:40	2.7	ENE	16/07/2017	13:50	5.4	ENE	16/07/2017	21:00	2.7	W
16/07/2017	06:45	3.6	ENE	16/07/2017	13:55	3.1	WSW	16/07/2017	21:05	4	ENE
16/07/2017	06:50	1.8	SSW	16/07/2017	14:00	1.3	SSW	16/07/2017	21:10	2.7	ENE
16/07/2017	06:55	2.2	WNW	16/07/2017	14:05	5.8	ENE	16/07/2017	21:15	3.6	NW
16/07/2017	07:00	0.9	WSW	16/07/2017	14:10	4.5	E	16/07/2017	21:20	3.1	E
16/07/2017	07:05	2.2	W	16/07/2017	14:15	3.1	WSW	16/07/2017	21:25	1.3	SSW
16/07/2017	07:10	5.8	ENE	16/07/2017	14:20	3.1	ENE	16/07/2017	21:30	2.2	NE
16/07/2017	07:15	1.3	NW	16/07/2017	14:25	3.6	E	16/07/2017	21:35	2.7	ENE
16/07/2017	07:20	2.7	ENE	16/07/2017	14:30	4	ENE	16/07/2017	21:40	1.8	W
16/07/2017	07:25	2.7	NE	16/07/2017	14:35	3.6	NE	16/07/2017	21:45	3.6	ENE
16/07/2017	07:30	2.2	NE	16/07/2017	14:40	2.7	ENE	16/07/2017	21:50	3.1	ENE
16/07/2017	07:35	4.5	E	16/07/2017	14:45	2.7	ENE	16/07/2017	21:55	5.4	E
16/07/2017	07:40	2.2	E	16/07/2017	14:50	3.6	NE	16/07/2017	22:00	2.7	ENE
16/07/2017	07:45	3.1	ENE	16/07/2017	14:55	0.9	NE	16/07/2017	22:05	2.7	ENE
16/07/2017	07:50	3.1	WSW	16/07/2017	15:00	1.3	ENE	16/07/2017	22:10	2.7	ENE
16/07/2017	07:55	3.1	NE	16/07/2017	15:05	3.1	ENE	16/07/2017	22:15	1.8	NNW
16/07/2017	08:00	2.7	ENE	16/07/2017	15:10	2.2	W	16/07/2017	22:20	0.9	NE
16/07/2017	08:05	2.7	ENE	16/07/2017	15:15	2.2	W	16/07/2017	22:25	4.5	NE
16/07/2017	08:10	2.7	WSW	16/07/2017	15:20	1.8	W	16/07/2017	22:30	4.9	E
16/07/2017	08:15	4.9	ENE	16/07/2017	15:25	3.1	ENE	16/07/2017	22:35	3.6	ENE
16/07/2017	08:20	4	ENE	16/07/2017	15:30	3.1	ENE	16/07/2017	22:40	2.7	ENE
16/07/2017	08:25	3.6	NW	16/07/2017	15:35	4	ENE	16/07/2017	22:45	6.3	E
16/07/2017	08:30	5.8	ENE	16/07/2017	15:40	2.2	NW	16/07/2017	22:50	1.8	W
16/07/2017	08:35	4	ENE	16/07/2017	15:45	4	NE	16/07/2017	22:55	1.8	WNW
16/07/2017	08:40	4.9	E	16/07/2017	15:50	4	ENE	16/07/2017	23:00	5.8	ENE
16/07/2017	08:45	3.6	NE	16/07/2017	15:55	2.7	ENE	16/07/2017	23:05	1.8	ENE
16/07/2017	08:50	4.5	ENE	16/07/2017	16:00	2.2	E	16/07/2017	23:10	4	NE
16/07/2017	08:55	6.7	E	16/07/2017	16:05	4.9	ENE	16/07/2017	23:15	2.7	W
16/07/2017	09:00	4.9	ENE	16/07/2017	16:10	4.9	E	16/07/2017	23:20	2.7	ENE
16/07/2017	09:05	3.1	E	16/07/2017	16:15	4	NE	16/07/2017	23:25	4.5	ENE
16/07/2017	09:10	1.8	ENE	16/07/2017	16:20	4.5	ENE	16/07/2017	23:30	4.5	E
16/07/2017	09:15	5.8	ENE	16/07/2017	16:25	0.9	WSW	16/07/2017	23:35	4	ENE
16/07/2017	09:20	3.6	ENE	16/07/2017	16:30	4	NE	16/07/2017	23:40	5.4	E
16/07/2017	09:25	2.7	ENE	16/07/2017	16:35	4	ENE	16/07/2017	23:45	4	ENE
16/07/2017	09:30	4	ENE	16/07/2017	16:40	6.3	E	16/07/2017	23:50	3.6	ENE
16/07/2017	09:35	4	ENE	16/07/2017	16:45	4	NE	16/07/2017	23:55	5.4	E
16/07/2017	09:40	2.2	ENE	16/07/2017	16:50	2.2	NE	17/07/2017	00:00	2.7	ENE
16/07/2017	09:45	3.1	WSW	16/07/2017	16:55	4.5	ENE	17/07/2017	00:05	0.9	WSW
16/07/2017	09:50	4.5	E	16/07/2017	17:00	3.6	ENE	17/07/2017	00:10	0.9	SW
16/07/2017	09:55	4.5	E	16/07/2017	17:05	5.8	ENE	17/07/2017	00:15	2.2	E
16/07/2017	10:00	2.2	NE	16/07/2017	17:10	4.5	E	17/07/2017	00:20	2.7	ENE
16/07/2017	10:05	3.6	ENE	16/07/2017	17:15	1.8	SSW	17/07/2017	00:25	4	E
16/07/2017	10:10	2.7	NW	16/07/2017	17:20	3.1	E	17/07/2017	00:30	1.3	NNE
16/07/2017	10:15	0.9	NNE	16/07/2017	17:25	0.4	NW	17/07/2017	00:35	2.7	E
16/07/2017	10:20	3.1	ENE	16/07/2017	17:30	3.6	NE	17/07/2017	00:40	0.9	SSW
16/07/2017	10:25	4.5	NNE	16/07/2017	17:35	4.9	ENE	17/07/2017	00:45	0.9	ENE
16/07/2017	10:30	1.3	ENE	16/07/2017	17:40	4.9	ENE	17/07/2017	00:50	0.9	SE
16/07/2017	10:35	4.5	ENE	16/07/2017	17:45	1.3	ENE	17/07/2017	00:55	0.4	ESE
16/07/2017	10:40	4.5	ENE	16/07/2017	17:50	3.1	ENE	17/07/2017	01:00	0.9	WSW
16/07/2017	10:45	4	ENE	16/07/2017	17:55	2.2	WNW	17/07/2017	01:05	0.9	ESE
16/07/2017	10:50	4	NE	16/07/2017	18:00	4.9	ENE	17/07/2017	01:10	0.9	NNE
16/07/2017	10:55	4	ENE	16/07/2017	18:05	3.1	E	17/07/2017	01:15	1.8	E
16/07/2017	11:00	4	NE	16/07/2017	18:10	1.8	NE	17/07/2017	01:20	2.2	NE
16/07/2017	11:05	4.5	ENE	16/07/2017	18:15	3.1	WSW	17/07/2017	01:25	1.8	E
16/07/2017	11:10	5.4	ENE	16/07/2017	18:20	3.1	E	17/07/2017	01:30	2.2	ENE
16/07/2017	11:15	4.9	E	16/07/2017	18:25	4.9	E	17/07/2017	01:35	1.3	SW
16/07/2017	11:20	4	ENE	16/07/2017	18:30	4	NE	17/07/2017	01:40	0.4	ESE
16/07/2017	11:25	4	ENE	16/07/2017	18:35	1.8	S	17/07/2017	01:45	0.9	ESE
16/07/2017	11:30	2.2	WSW	16/07/2017	18:40	2.2	E	17/07/2017	01:50	2.2	SSW
16/07/2017	11:35	2.2	NE	16/07/2017	18:45	3.1	WSW	17/07/2017	01:55	2.2	ESE
16/07/2017	11:40	4.9	ENE	16/07/2017	18:50	4.9	E	17/07/2017	02:00	4.5	E
16/07/2017	11:45	4.5	ENE	16/07/2017	18:55	4.5	NE	17/07/2017	02:05	1.8	NNE
16/07/2017	11:50	3.6	ENE	16/07/2017	19:00	4	ENE	17/07/2017	02:10	0.4	ESE
16/07/2017	11:55	4.9	ENE	16/07/2017	19:05	6.7	E	17/07/2017	02:15	1.3	ENE
16/07/2017	12:00	4.9	ENE	16/07/2017	19:10	4	ENE	17/07/2017	02:20	1.3	W
16/07/2017	12:05	2.2	ENE	16/07/2017	19:15	2.7	W	17/07/2017	02:25	0.9	E
16/07/2017	12:10	5.4	ENE	16/07/2017	19:20	2.2	NNE	17/07/2017	02:30	0.9	NNE
16/07/2017	12:15	4.9	ENE	16/07/2017	19:25	1.8	ESE	17/07/2017	02:35	0.9	SSW
16/07/2017	12:20	4.5	ENE	16/07/2017	19:30	4.9	E	17/07/2017	02:40	3.1	E
16/07/2017	12:25	1.8	W	16/07/2017	19:35	5.4	ENE	17/07/2017	02:45	1.3	E
16/07/2017	12:30	2.7	ENE	16/07/2017	19:40	3.1	ENE	17/07/2017	02:50	2.7	ENE
16/07/2017	12:35	1.8	W	16/07/2017	19:45	6.7	ENE	17/07/2017	02:55	2.7	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
17/07/2017	03:00	2.2	ENE	17/07/2017	10:10	1.3	E	17/07/2017	17:20	0.9	WSW
17/07/2017	03:05	1.3	WSW	17/07/2017	10:15	2.7	E	17/07/2017	17:25	0.4	SW
17/07/2017	03:10	1.3	NE	17/07/2017	10:20	2.7	WSW	17/07/2017	17:30	0.9	SSW
17/07/2017	03:15	1.3	ENE	17/07/2017	10:25	0.4	SSW	17/07/2017	17:35	0.9	WSW
17/07/2017	03:20	2.2	E	17/07/2017	10:30	1.3	E	17/07/2017	17:40	0.9	WSW
17/07/2017	03:25	0.9	ESE	17/07/2017	10:35	1.8	NE	17/07/2017	17:45	0.4	NE
17/07/2017	03:30	0.9	ESE	17/07/2017	10:40	0.9	WSW	17/07/2017	17:50	0.4	ESE
17/07/2017	03:35	0.4	E	17/07/2017	10:45	2.2	WSW	17/07/2017	17:55	2.2	ENE
17/07/2017	03:40	1.8	E	17/07/2017	10:50	1.8	NE	17/07/2017	18:00	1.3	ESE
17/07/2017	03:45	0.9	ESE	17/07/2017	10:55	0.4	SW	17/07/2017	18:05	1.8	ENE
17/07/2017	03:50	3.6	NE	17/07/2017	11:00	0.4	ESE	17/07/2017	18:10	0.9	WSW
17/07/2017	03:55	3.1	E	17/07/2017	11:05	0.9	ESE	17/07/2017	18:15	2.7	ENE
17/07/2017	04:00	5.4	E	17/07/2017	11:10	0.4	SW	17/07/2017	18:20	4.9	E
17/07/2017	04:05	4	E	17/07/2017	11:15	0.9	E	17/07/2017	18:25	1.8	NNE
17/07/2017	04:10	4	ENE	17/07/2017	11:20	4.5	E	17/07/2017	18:30	1.3	W
17/07/2017	04:15	0.9	WSW	17/07/2017	11:25	1.8	E	17/07/2017	18:35	1.8	ENE
17/07/2017	04:20	1.3	E	17/07/2017	11:30	1.3	ENE	17/07/2017	18:40	0.4	SSE
17/07/2017	04:25	1.8	ENE	17/07/2017	11:35	2.2	E	17/07/2017	18:45	1.3	E
17/07/2017	04:30	2.2	NE	17/07/2017	11:40	1.3	ENE	17/07/2017	18:50	2.2	ENE
17/07/2017	04:35	4	E	17/07/2017	11:45	0.9	SW	17/07/2017	18:55	0.4	ESE
17/07/2017	04:40	1.3	ENE	17/07/2017	11:50	3.1	ENE	17/07/2017	19:00	2.2	ENE
17/07/2017	04:45	0.9	SSE	17/07/2017	11:55	2.2	N	17/07/2017	19:05	3.6	E
17/07/2017	04:50	5.4	E	17/07/2017	12:00	0.4	SW	17/07/2017	19:10	2.2	ENE
17/07/2017	04:55	0.9	ESE	17/07/2017	12:05	1.3	NNE	17/07/2017	19:15	4.5	E
17/07/2017	05:00	2.7	SE	17/07/2017	12:10	2.2	ESE	17/07/2017	19:20	0.4	ESE
17/07/2017	05:05	1.3	WSW	17/07/2017	12:15	0.4	SE	17/07/2017	19:25	2.2	ENE
17/07/2017	05:10	3.6	ENE	17/07/2017	12:20	0.9	NNE	17/07/2017	19:30	4	ENE
17/07/2017	05:15	1.8	E	17/07/2017	12:25	1.8	NE	17/07/2017	19:35	0.4	ESE
17/07/2017	05:20	0.9	SE	17/07/2017	12:30	1.3	ESE	17/07/2017	19:40	0.4	NE
17/07/2017	05:25	1.8	E	17/07/2017	12:35	1.3	W	17/07/2017	19:45	2.2	NNE
17/07/2017	05:30	3.6	E	17/07/2017	12:40	1.3	SE	17/07/2017	19:50	0.4	NNE
17/07/2017	05:35	1.3	NNE	17/07/2017	12:45	1.3	WSW	17/07/2017	19:55	0.9	WSW
17/07/2017	05:40	2.2	ESE	17/07/2017	12:50	0.9	ENE	17/07/2017	20:00	1.3	N
17/07/2017	05:45	4.5	E	17/07/2017	12:55	0.4	WSW	17/07/2017	20:05	0.9	ESE
17/07/2017	05:50	0.9	ESE	17/07/2017	13:00	0.4	E	17/07/2017	20:10	0.9	E
17/07/2017	05:55	0.9	SSW	17/07/2017	13:05	0.9	ESE	17/07/2017	20:15	1.3	E
17/07/2017	06:00	1.3	NE	17/07/2017	13:10	1.8	ENE	17/07/2017	20:20	3.6	ENE
17/07/2017	06:05	1.3	E	17/07/2017	13:15	2.2	ENE	17/07/2017	20:25	0.9	ESE
17/07/2017	06:10	1.3	ESE	17/07/2017	13:20	1.3	NNW	17/07/2017	20:30	0.9	WSW
17/07/2017	06:15	1.3	NNW	17/07/2017	13:25	3.6	E	17/07/2017	20:35	1.3	NE
17/07/2017	06:20	4	ENE	17/07/2017	13:30	3.6	E	17/07/2017	20:40	0.4	SW
17/07/2017	06:25	0.4	SW	17/07/2017	13:35	1.8	SW	17/07/2017	20:45	1.3	ENE
17/07/2017	06:30	2.2	NE	17/07/2017	13:40	0.9	ESE	17/07/2017	20:50	0.9	ESE
17/07/2017	06:35	1.8	ENE	17/07/2017	13:45	1.8	W	17/07/2017	20:55	1.8	E
17/07/2017	06:40	1.8	W	17/07/2017	13:50	0.9	SSW	17/07/2017	21:00	0.9	WNW
17/07/2017	06:45	0.9	ESE	17/07/2017	13:55	4	E	17/07/2017	21:05	4.9	E
17/07/2017	06:50	0.9	WSW	17/07/2017	14:00	0.9	SSE	17/07/2017	21:10	4	E
17/07/2017	06:55	1.8	W	17/07/2017	14:05	0.4	SW	17/07/2017	21:15	0.9	NE
17/07/2017	07:00	0.9	ESE	17/07/2017	14:10	0.9	WSW	17/07/2017	21:20	0.9	WSW
17/07/2017	07:05	1.8	E	17/07/2017	14:15	4	E	17/07/2017	21:25	1.8	ENE
17/07/2017	07:10	1.3	WSW	17/07/2017	14:20	1.3	E	17/07/2017	21:30	0.4	ESE
17/07/2017	07:15	0.4	E	17/07/2017	14:25	0.9	NNE	17/07/2017	21:35	0.4	N
17/07/2017	07:20	1.3	NE	17/07/2017	14:30	0.9	N	17/07/2017	21:40	0.4	NNE
17/07/2017	07:25	4	E	17/07/2017	14:35	1.8	ENE	17/07/2017	21:45	0.4	WSW
17/07/2017	07:30	0.9	SSW	17/07/2017	14:40	0.9	SSW	17/07/2017	21:50	4	E
17/07/2017	07:35	2.2	N	17/07/2017	14:45	3.6	E	17/07/2017	21:55	1.3	SSE
17/07/2017	07:40	4.5	E	17/07/2017	14:50	0.9	SE	17/07/2017	22:00	4	E
17/07/2017	07:45	1.3	ENE	17/07/2017	14:55	5.8	E	17/07/2017	22:05	1.3	NE
17/07/2017	07:50	0.9	NE	17/07/2017	15:00	3.1	ENE	17/07/2017	22:10	1.8	SW
17/07/2017	07:55	0.4	ESE	17/07/2017	15:05	0.9	WSW	17/07/2017	22:15	1.8	E
17/07/2017	08:00	3.1	ENE	17/07/2017	15:10	4.5	E	17/07/2017	22:20	3.6	ENE
17/07/2017	08:05	4.9	E	17/07/2017	15:15	1.8	NNE	17/07/2017	22:25	2.2	E
17/07/2017	08:10	2.7	WSW	17/07/2017	15:20	0.9	WSW	17/07/2017	22:30	5.4	E
17/07/2017	08:15	2.2	NNE	17/07/2017	15:25	2.2	NE	17/07/2017	22:35	2.7	E
17/07/2017	08:20	4	ENE	17/07/2017	15:30	0.9	ESE	17/07/2017	22:40	1.3	E
17/07/2017	08:25	3.1	WSW	17/07/2017	15:35	1.3	NNW	17/07/2017	22:45	1.3	SE
17/07/2017	08:30	1.3	N	17/07/2017	15:40	2.2	E	17/07/2017	22:50	4	ENE
17/07/2017	08:35	0.9	WSW	17/07/2017	15:45	0.9	WSW	17/07/2017	22:55	2.2	W
17/07/2017	08:40	0.9	ESE	17/07/2017	15:50	1.8	W	17/07/2017	23:00	0.4	ESE
17/07/2017	08:45	1.3	W	17/07/2017	15:55	0.9	ESE	17/07/2017	23:05	5.4	E
17/07/2017	08:50	0.9	WSW	17/07/2017	16:00	0.9	E	17/07/2017	23:10	1.3	W
17/07/2017	08:55	2.2	E	17/07/2017	16:05	0.4	NW	17/07/2017	23:15	0.9	ESE
17/07/2017	09:00	1.8	NNE	17/07/2017	16:10	0.9	SSE	17/07/2017	23:20	0.9	WSW
17/07/2017	09:05	4	ENE	17/07/2017	16:15	0.9	ESE	17/07/2017	23:25	0.9	WSW
17/07/2017	09:10	0.9	WSW	17/07/2017	16:20	2.7	E	17/07/2017	23:30	4.5	E
17/07/2017	09:15	3.6	ENE	17/07/2017	16:25	1.3	NE	17/07/2017	23:35	2.7	E
17/07/2017	09:20	1.8	NE	17/07/2017	16:30	0.9	NE	17/07/2017	23:40	0.9	SE
17/07/2017	09:25	1.3	ESE	17/07/2017	16:35	0.9	NNE	17/07/2017	23:45	0.9	WSW
17/07/2017	09:30	3.1	E	17/07/2017	16:40	0.4	ESE	17/07/2017	23:50	0.9	ESE
17/07/2017	09:35	0.9	ENE	17/07/2017	16:45	2.7	E	17/07/2017	23:55	2.2	WSW
17/07/2017	09:40	3.1	ENE	17/07/2017	16:50	0.4	SW	18/07/2017	00:00	2.7	NE
17/07/2017	09:45	0.4	ESE	17/07/2017	16:55	3.6	E	7/18/2017	00:05	1.3	NNW
17/07/2017	09:50	2.2	W	17/07/2017	17:00	0.9	NNE	7/18/2017	00:10	2.2	ENE
17/07/2017	09:55	1.3	ENE	17/07/2017	17:05	3.6	E	7/18/2017	00:15	0.9	SSW
17/07/2017	10:00	0.4	ESE	17/07/2017	17:10	3.6	ENE	7/18/2017	00:20	0.4	ENE
17/07/2017	10:05	3.6	ENE	17/07/2017	17:15	0.9	SW	7/18/2017	00:25	0.4	NNE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
7/18/2017	00:30	0.9	SE	7/18/2017	07:40	2.7	ENE	7/18/2017	14:50	0.9	E
7/18/2017	00:35	0.9	NNW	7/18/2017	07:45	0.9	NE	7/18/2017	14:55	0.9	SSW
7/18/2017	00:40	0.4	ENE	7/18/2017	07:50	1.8	W	7/18/2017	15:00	2.2	NE
7/18/2017	00:45	2.2	NE	7/18/2017	07:55	0.4	NNE	7/18/2017	15:05	0.9	N
7/18/2017	00:50	2.7	E	7/18/2017	08:00	1.8	ENE	7/18/2017	15:10	0.9	NE
7/18/2017	00:55	1.3	N	7/18/2017	08:05	1.8	NNE	7/18/2017	15:15	0.4	WNW
7/18/2017	01:00	2.2	ENE	7/18/2017	08:10	1.8	W	7/18/2017	15:20	0.4	W
7/18/2017	01:05	2.2	ENE	7/18/2017	08:15	2.2	ENE	7/18/2017	15:25	3.6	NE
7/18/2017	01:10	2.2	W	7/18/2017	08:20	1.8	ENE	7/18/2017	15:30	1.8	E
7/18/2017	01:15	2.2	NE	7/18/2017	08:25	1.8	NE	7/18/2017	15:35	0.9	NW
7/18/2017	01:20	0.9	SE	7/18/2017	08:30	1.8	ESE	7/18/2017	15:40	1.3	NW
7/18/2017	01:25	1.3	E	7/18/2017	08:35	1.3	W	7/18/2017	15:45	0.4	ENE
7/18/2017	01:30	2.2	ENE	7/18/2017	08:40	2.2	N	7/18/2017	15:50	1.3	W
7/18/2017	01:35	1.3	NE	7/18/2017	08:45	1.8	N	7/18/2017	15:55	1.8	NNE
7/18/2017	01:40	1.3	ENE	7/18/2017	08:50	1.3	NNW	7/18/2017	16:00	2.2	N
7/18/2017	01:45	2.2	NE	7/18/2017	08:55	1.3	WNW	7/18/2017	16:05	2.7	ENE
7/18/2017	01:50	1.3	ENE	7/18/2017	09:00	2.2	NNW	7/18/2017	16:10	1.3	NE
7/18/2017	01:55	1.3	W	7/18/2017	09:05	0.4	NNW	7/18/2017	16:15	2.2	NE
7/18/2017	02:00	1.8	NE	7/18/2017	09:10	0.9	ENE	7/18/2017	16:20	1.8	NE
7/18/2017	02:05	0.9	SE	7/18/2017	09:15	2.2	ENE	7/18/2017	16:25	1.3	ENE
7/18/2017	02:10	1.8	ENE	7/18/2017	09:20	0.9	ENE	7/18/2017	16:30	1.8	ENE
7/18/2017	02:15	2.2	ENE	7/18/2017	09:25	3.6	ENE	7/18/2017	16:35	1.3	WSW
7/18/2017	02:20	2.2	ENE	7/18/2017	09:30	2.2	NE	7/18/2017	16:40	1.3	NNE
7/18/2017	02:25	2.7	ENE	7/18/2017	09:35	0.9	E	7/18/2017	16:45	2.2	NE
7/18/2017	02:30	2.2	ENE	7/18/2017	09:40	3.1	NE	7/18/2017	16:50	3.1	E
7/18/2017	02:35	0.9	NE	7/18/2017	09:45	2.2	ENE	7/18/2017	16:55	1.3	NNW
7/18/2017	02:40	2.7	NE	7/18/2017	09:50	1.8	NNE	7/18/2017	17:00	0.9	NE
7/18/2017	02:45	1.8	W	7/18/2017	09:55	0.4	E	7/18/2017	17:05	1.8	ESE
7/18/2017	02:50	1.8	ENE	7/18/2017	10:00	3.1	NE	7/18/2017	17:10	0.9	ESE
7/18/2017	02:55	1.3	WSW	7/18/2017	10:05	2.7	ENE	7/18/2017	17:15	2.7	NE
7/18/2017	03:00	2.2	W	7/18/2017	10:10	0.4	SSW	7/18/2017	17:20	0.9	N
7/18/2017	03:05	2.2	N	7/18/2017	10:15	3.6	NE	7/18/2017	17:25	0.4	WSW
7/18/2017	03:10	1.8	NE	7/18/2017	10:20	0.9	NE	7/18/2017	17:30	1.3	ESE
7/18/2017	03:15	1.8	ENE	7/18/2017	10:25	0.4	ENE	7/18/2017	17:35	1.8	ENE
7/18/2017	03:20	1.3	NE	7/18/2017	10:30	2.2	NNW	7/18/2017	17:40	1.8	WNW
7/18/2017	03:25	0.4	WNW	7/18/2017	10:35	2.7	NE	7/18/2017	17:45	1.8	ENE
7/18/2017	03:30	1.3	E	7/18/2017	10:40	1.8	ENE	7/18/2017	17:50	2.2	ENE
7/18/2017	03:35	1.8	ESE	7/18/2017	10:45	2.2	NNE	7/18/2017	17:55	1.3	ENE
7/18/2017	03:40	0.4	ENE	7/18/2017	10:50	0.4	SSW	7/18/2017	18:00	1.8	NE
7/18/2017	03:45	3.6	NE	7/18/2017	10:55	1.8	W	7/18/2017	18:05	0.4	ENE
7/18/2017	03:50	1.8	ENE	7/18/2017	11:00	1.3	WSW	7/18/2017	18:10	2.7	E
7/18/2017	03:55	0.9	ESE	7/18/2017	11:05	1.8	ENE	7/18/2017	18:15	1.3	E
7/18/2017	04:00	2.7	ENE	7/18/2017	11:10	0.4	SSW	7/18/2017	18:20	1.3	NE
7/18/2017	04:05	1.8	ENE	7/18/2017	11:15	1.8	NE	7/18/2017	18:25	0.4	E
7/18/2017	04:10	1.8	E	7/18/2017	11:20	3.1	ENE	7/18/2017	18:30	0.9	ESE
7/18/2017	04:15	0.4	NE	7/18/2017	11:25	1.8	NW	7/18/2017	18:35	2.7	E
7/18/2017	04:20	1.3	WNW	7/18/2017	11:30	1.8	W	7/18/2017	18:40	1.3	NNE
7/18/2017	04:25	2.2	ENE	7/18/2017	11:35	2.2	ENE	7/18/2017	18:45	1.3	E
7/18/2017	04:30	0.9	NW	7/18/2017	11:40	0.9	NW	7/18/2017	18:50	1.3	NNE
7/18/2017	04:35	2.2	ENE	7/18/2017	11:45	1.8	NNW	7/18/2017	18:55	1.8	ENE
7/18/2017	04:40	0.4	SSW	7/18/2017	11:50	0.9	NNE	7/18/2017	19:00	1.8	WNW
7/18/2017	04:45	1.3	E	7/18/2017	11:55	0.4	NE	7/18/2017	19:05	3.6	NE
7/18/2017	04:50	0.4	E	7/18/2017	12:00	0.9	E	7/18/2017	19:10	1.8	NNE
7/18/2017	04:55	1.3	WSW	7/18/2017	12:05	0.4	ESE	7/18/2017	19:15	1.8	E
7/18/2017	05:00	2.7	ENE	7/18/2017	12:10	1.3	E	7/18/2017	19:20	0.9	NNW
7/18/2017	05:05	1.8	NE	7/18/2017	12:15	1.8	NE	7/18/2017	19:25	1.3	WSW
7/18/2017	05:10	1.3	W	7/18/2017	12:20	2.7	NE	7/18/2017	19:30	1.3	NNE
7/18/2017	05:15	0.4	E	7/18/2017	12:25	0.9	W	7/18/2017	19:35	2.2	NE
7/18/2017	05:20	3.1	NE	7/18/2017	12:30	1.3	WSW	7/18/2017	19:40	1.3	E
7/18/2017	05:25	0.9	NNE	7/18/2017	12:35	2.2	ENE	7/18/2017	19:45	0.4	ENE
7/18/2017	05:30	0.9	SE	7/18/2017	12:40	0.4	E	7/18/2017	19:50	1.3	W
7/18/2017	05:35	3.6	ENE	7/18/2017	12:45	0.9	W	7/18/2017	19:55	2.7	ENE
7/18/2017	05:40	0.9	E	7/18/2017	12:50	1.8	NNW	7/18/2017	20:00	2.7	ENE
7/18/2017	05:45	1.3	NE	7/18/2017	12:55	1.8	ENE	7/18/2017	20:05	2.2	NNE
7/18/2017	05:50	1.3	N	7/18/2017	13:00	0.4	E	7/18/2017	20:10	1.3	NE
7/18/2017	05:55	1.8	W	7/18/2017	13:05	1.3	W	7/18/2017	20:15	0.4	E
7/18/2017	06:00	1.8	ENE	7/18/2017	13:10	1.8	NE	7/18/2017	20:20	2.2	NNW
7/18/2017	06:05	0.9	SE	7/18/2017	13:15	2.2	N	7/18/2017	20:25	2.7	NE
7/18/2017	06:10	1.3	NE	7/18/2017	13:20	2.7	ENE	7/18/2017	20:30	0.9	NNW
7/18/2017	06:15	0.4	SSW	7/18/2017	13:25	0.9	SE	7/18/2017	20:35	1.8	ENE
7/18/2017	06:20	2.7	ENE	7/18/2017	13:30	0.4	SSW	7/18/2017	20:40	1.8	ENE
7/18/2017	06:25	0.9	ENE	7/18/2017	13:35	2.7	ENE	7/18/2017	20:45	0.4	E
7/18/2017	06:30	1.3	E	7/18/2017	13:40	0.4	NNW	7/18/2017	20:50	1.8	NE
7/18/2017	06:35	1.8	WNW	7/18/2017	13:45	2.2	ENE	7/18/2017	20:55	0.4	E
7/18/2017	06:40	1.3	NNE	7/18/2017	13:50	2.2	ENE	7/18/2017	21:00	0.9	N
7/18/2017	06:45	1.8	E	7/18/2017	13:55	1.3	NE	7/18/2017	21:05	1.3	ESE
7/18/2017	06:50	2.2	WNW	7/18/2017	14:00	0.4	SSW	7/18/2017	21:10	1.3	E
7/18/2017	06:55	0.4	W	7/18/2017	14:05	1.3	ESE	7/18/2017	21:15	4	NE
7/18/2017	07:00	0.9	ESE	7/18/2017	14:10	0.9	E	7/18/2017	21:20	1.8	NNW
7/18/2017	07:05	1.8	NNE	7/18/2017	14:15	1.3	ENE	7/18/2017	21:25	2.2	NE
7/18/2017	07:10	2.7	ENE	7/18/2017	14:20	0.9	NE	7/18/2017	21:30	2.2	NNW
7/18/2017	07:15	1.8	ENE	7/18/2017	14:25	1.3	W	7/18/2017	21:35	1.8	W
7/18/2017	07:20	1.8	NNE	7/18/2017	14:30	2.7	E	7/18/2017	21:40	0.9	NNE
7/18/2017	07:25	2.2	NE	7/18/2017	14:35	0.4	NNW	7/18/2017	21:45	0.4	NNW
7/18/2017	07:30	1.8	NE	7/18/2017	14:40	0.9	E	7/18/2017	21:50	1.8	NE
7/18/2017	07:35	2.2	E	7/18/2017	14:45	1.3	NNW	7/18/2017	21:55	1.3	NE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
7/18/2017	22:00	2.2	ENE	7/19/2017	05:10	0.4	W	7/19/2017	12:20	2.2	E
7/18/2017	22:05	2.7	NE	7/19/2017	05:15	2.2	NE	7/19/2017	12:25	3.6	E
7/18/2017	22:10	2.7	ENE	7/19/2017	05:20	1.3	NE	7/19/2017	12:30	2.7	NE
7/18/2017	22:15	1.3	W	7/19/2017	05:25	1.8	NNE	7/19/2017	12:35	4	ENE
7/18/2017	22:20	2.7	E	7/19/2017	05:30	0.9	NW	7/19/2017	12:40	1.8	W
7/18/2017	22:25	1.8	ENE	7/19/2017	05:35	1.3	ENE	7/19/2017	12:45	3.1	NE
7/18/2017	22:30	0.9	W	7/19/2017	05:40	1.3	NE	7/19/2017	12:50	2.2	NE
7/18/2017	22:35	1.8	ESE	7/19/2017	05:45	3.6	NW	7/19/2017	12:55	4	NE
7/18/2017	22:40	0.4	NNE	7/19/2017	05:50	0.4	WSW	7/19/2017	13:00	1.8	ENE
7/18/2017	22:45	0.9	ENE	7/19/2017	05:55	4.5	NE	7/19/2017	13:05	0.9	ENE
7/18/2017	22:50	1.3	ENE	7/19/2017	06:00	1.8	WNW	7/19/2017	13:10	0.9	WSW
7/18/2017	22:55	1.3	ENE	7/19/2017	06:05	4.9	NE	7/19/2017	13:15	1.3	NE
7/18/2017	23:00	0.9	SE	7/19/2017	06:10	1.3	NNE	7/19/2017	13:20	2.7	E
7/18/2017	23:05	0.9	NE	7/19/2017	06:15	3.6	NE	7/19/2017	13:25	0.9	WNW
7/18/2017	23:10	1.3	NNE	7/19/2017	06:20	2.7	NNW	7/19/2017	13:30	3.6	NE
7/18/2017	23:15	0.4	NE	7/19/2017	06:25	1.3	E	7/19/2017	13:35	4.9	E
7/18/2017	23:20	2.7	E	7/19/2017	06:30	1.3	NE	7/19/2017	13:40	4.5	NE
7/18/2017	23:25	1.3	NE	7/19/2017	06:35	0.9	WSW	7/19/2017	13:45	4	NE
7/18/2017	23:30	1.3	W	7/19/2017	06:40	4	NE	7/19/2017	13:50	0.9	WSW
7/18/2017	23:35	2.2	N	7/19/2017	06:45	3.1	ENE	7/19/2017	13:55	2.2	NE
7/18/2017	23:40	0.9	WNW	7/19/2017	06:50	3.1	NE	7/19/2017	14:00	1.8	W
7/18/2017	23:45	0.9	NE	7/19/2017	06:55	0.4	WSW	7/19/2017	14:05	3.6	E
7/18/2017	23:50	2.7	ENE	7/19/2017	07:00	1.3	NE	7/19/2017	14:10	3.6	E
7/18/2017	23:55	2.2	E	7/19/2017	07:05	3.6	E	7/19/2017	14:15	3.1	NNE
7/19/2017	00:00	0.4	ENE	7/19/2017	07:10	4.9	E	7/19/2017	14:20	0.9	WSW
7/19/2017	00:05	1.3	NE	7/19/2017	07:15	4	NE	7/19/2017	14:25	0.9	E
7/19/2017	00:10	1.8	N	7/19/2017	07:20	3.1	NE	7/19/2017	14:30	4.5	ENE
7/19/2017	00:15	0.9	NW	7/19/2017	07:25	3.6	E	7/19/2017	14:35	1.3	W
7/19/2017	00:20	4.9	E	7/19/2017	07:30	4.9	NE	7/19/2017	14:40	0.9	W
7/19/2017	00:25	3.6	ENE	7/19/2017	07:35	1.3	NE	7/19/2017	14:45	3.6	NE
7/19/2017	00:30	0.9	W	7/19/2017	07:40	4	NE	7/19/2017	14:50	1.3	NE
7/19/2017	00:35	4	NE	7/19/2017	07:45	3.6	NE	7/19/2017	14:55	1.8	NE
7/19/2017	00:40	4.9	NE	7/19/2017	07:50	1.3	NNE	7/19/2017	15:00	3.6	NE
7/19/2017	00:45	1.3	WNW	7/19/2017	07:55	5.4	NE	7/19/2017	15:05	1.3	ENE
7/19/2017	00:50	1.8	ENE	7/19/2017	08:00	4	NE	7/19/2017	15:10	1.3	NE
7/19/2017	00:55	4.5	ENE	7/19/2017	08:05	2.7	E	7/19/2017	15:15	2.2	E
7/19/2017	01:00	0.4	WSW	7/19/2017	08:10	1.3	NE	7/19/2017	15:20	1.8	NE
7/19/2017	01:05	1.3	ENE	7/19/2017	08:15	3.1	NE	7/19/2017	15:25	1.8	NW
7/19/2017	01:10	3.6	NE	7/19/2017	08:20	1.8	NNE	7/19/2017	15:30	1.3	ENE
7/19/2017	01:15	2.2	WNW	7/19/2017	08:25	1.3	W	7/19/2017	15:35	0.4	W
7/19/2017	01:20	4.5	NE	7/19/2017	08:30	0.9	W	7/19/2017	15:40	4.5	NE
7/19/2017	01:25	1.8	WNW	7/19/2017	08:35	1.8	W	7/19/2017	15:45	2.2	NE
7/19/2017	01:30	3.1	NE	7/19/2017	08:40	0.9	SW	7/19/2017	15:50	1.8	NNE
7/19/2017	01:35	0.9	NNE	7/19/2017	08:45	1.8	NE	7/19/2017	15:55	4.5	ENE
7/19/2017	01:40	1.3	NE	7/19/2017	08:50	4.5	ENE	7/19/2017	16:00	1.8	NE
7/19/2017	01:45	1.3	W	7/19/2017	08:55	1.3	NNW	7/19/2017	16:05	0.9	NE
7/19/2017	01:50	1.8	NNW	7/19/2017	09:00	1.3	NE	7/19/2017	16:10	0.4	WSW
7/19/2017	01:55	1.8	NNE	7/19/2017	09:05	4.5	NE	7/19/2017	16:15	2.2	WNW
7/19/2017	02:00	0.9	WNW	7/19/2017	09:10	4	NE	7/19/2017	16:20	3.6	ENE
7/19/2017	02:05	1.8	NE	7/19/2017	09:15	2.2	NE	7/19/2017	16:25	4.9	E
7/19/2017	02:10	2.2	NE	7/19/2017	09:20	1.3	NE	7/19/2017	16:30	0.4	W
7/19/2017	02:15	1.8	NE	7/19/2017	09:25	1.3	N	7/19/2017	16:35	3.6	NE
7/19/2017	02:20	3.6	E	7/19/2017	09:30	0.4	WSW	7/19/2017	16:40	1.3	NE
7/19/2017	02:25	4.9	NE	7/19/2017	09:35	3.1	NE	7/19/2017	16:45	1.8	NNW
7/19/2017	02:30	3.6	E	7/19/2017	09:40	0.4	NW	7/19/2017	16:50	0.9	W
7/19/2017	02:35	1.8	W	7/19/2017	09:45	0.9	W	7/19/2017	16:55	2.7	NE
7/19/2017	02:40	3.1	NE	7/19/2017	09:50	4.9	E	7/19/2017	17:00	4.5	NE
7/19/2017	02:45	2.7	ENE	7/19/2017	09:55	3.6	ENE	7/19/2017	17:05	1.8	NE
7/19/2017	02:50	1.3	NNW	7/19/2017	10:00	0.9	ENE	7/19/2017	17:10	3.1	NE
7/19/2017	02:55	0.9	WNW	7/19/2017	10:05	2.2	NE	7/19/2017	17:15	1.3	NNE
7/19/2017	03:00	4	NE	7/19/2017	10:10	4.5	NE	7/19/2017	17:20	3.1	NE
7/19/2017	03:05	0.9	NNE	7/19/2017	10:15	3.6	NE	7/19/2017	17:25	0.9	S
7/19/2017	03:10	4.9	ENE	7/19/2017	10:20	2.7	WSW	7/19/2017	17:30	0.9	NNE
7/19/2017	03:15	0.4	WSW	7/19/2017	10:25	4	ENE	7/19/2017	17:35	2.2	NE
7/19/2017	03:20	5.4	ENE	7/19/2017	10:30	3.1	E	7/19/2017	17:40	2.7	NE
7/19/2017	03:25	1.8	ENE	7/19/2017	10:35	0.9	WSW	7/19/2017	17:45	1.3	NE
7/19/2017	03:30	1.8	NE	7/19/2017	10:40	4.5	NE	7/19/2017	17:50	1.8	NE
7/19/2017	03:35	4.9	NE	7/19/2017	10:45	0.4	WSW	7/19/2017	17:55	4.9	NE
7/19/2017	03:40	1.8	NNE	7/19/2017	10:50	0.9	WSW	7/19/2017	18:00	5.4	NE
7/19/2017	03:45	0.4	E	7/19/2017	10:55	1.8	NNE	7/19/2017	18:05	0.9	WSW
7/19/2017	03:50	0.9	N	7/19/2017	11:00	0.9	WSW	7/19/2017	18:10	0.4	E
7/19/2017	03:55	1.3	E	7/19/2017	11:05	1.3	NNE	7/19/2017	18:15	0.9	WSW
7/19/2017	04:00	1.3	WNW	7/19/2017	11:10	1.8	W	7/19/2017	18:20	1.3	N
7/19/2017	04:05	0.9	WNW	7/19/2017	11:15	1.8	WNW	7/19/2017	18:25	0.4	WSW
7/19/2017	04:10	0.9	WSW	7/19/2017	11:20	0.9	W	7/19/2017	18:30	1.8	NE
7/19/2017	04:15	4	E	7/19/2017	11:25	3.6	ENE	7/19/2017	18:35	0.4	WSW
7/19/2017	04:20	1.8	WNW	7/19/2017	11:30	0.9	WNW	7/19/2017	18:40	3.1	NE
7/19/2017	04:25	4	NE	7/19/2017	11:35	0.9	WNW	7/19/2017	18:45	1.3	W
7/19/2017	04:30	0.9	SW	7/19/2017	11:40	3.1	NW	7/19/2017	18:50	3.1	E
7/19/2017	04:35	1.3	ENE	7/19/2017	11:45	3.1	E	7/19/2017	18:55	0.9	SW
7/19/2017	04:40	4.9	NE	7/19/2017	11:50	2.7	E	7/19/2017	19:00	3.6	ENE
7/19/2017	04:45	0.9	W	7/19/2017	11:55	3.1	E	7/19/2017	19:05	0.9	NW
7/19/2017	04:50	4	NE	7/19/2017	12:00	0.9	WSW	7/19/2017	19:10	1.3	NE
7/19/2017	04:55	3.6	NE	7/19/2017	12:05	1.8	NNE	7/19/2017	19:15	1.3	NNE
7/19/2017	05:00	1.3	NE	7/19/2017	12:10	1.8	W	7/19/2017	19:20	4	NE
7/19/2017	05:05	4	NE	7/19/2017	12:15	3.1	NE	7/19/2017	19:25	2.7	NE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
7/19/2017	19:30	4.5	NE	20/07/2017	02:40	2.7	SW	20/07/2017	09:50	3.1	W
7/19/2017	19:35	3.1	NE	20/07/2017	02:45	1.3	NNW	20/07/2017	09:55	1.3	SW
7/19/2017	19:40	1.8	NNW	20/07/2017	02:50	2.2	NNW	20/07/2017	10:00	1.3	ENE
7/19/2017	19:45	4	NE	20/07/2017	02:55	0.9	ENE	20/07/2017	10:05	1.8	NW
7/19/2017	19:50	4.9	E	20/07/2017	03:00	1.8	W	20/07/2017	10:10	1.8	W
7/19/2017	19:55	0.9	WSW	20/07/2017	03:05	1.8	WNW	20/07/2017	10:15	1.8	W
7/19/2017	20:00	4.9	ENE	20/07/2017	03:10	0.4	N	20/07/2017	10:20	0.4	E
7/19/2017	20:05	4.9	E	20/07/2017	03:15	1.3	NW	20/07/2017	10:25	0.9	NW
7/19/2017	20:10	0.9	WNW	20/07/2017	03:20	3.6	W	20/07/2017	10:30	4	W
7/19/2017	20:15	1.8	NNE	20/07/2017	03:25	0.9	WSW	20/07/2017	10:35	1.3	N
7/19/2017	20:20	2.2	WNW	20/07/2017	03:30	2.2	W	20/07/2017	10:40	0.9	W
7/19/2017	20:25	4	NE	20/07/2017	03:35	1.8	SW	20/07/2017	10:45	0.4	WNW
7/19/2017	20:30	4	E	20/07/2017	03:40	1.8	W	20/07/2017	10:50	2.2	W
7/19/2017	20:35	1.8	NNE	20/07/2017	03:45	2.2	WNW	20/07/2017	10:55	1.3	W
7/19/2017	20:40	3.1	NE	20/07/2017	03:50	1.3	NE	20/07/2017	11:00	2.2	WSW
7/19/2017	20:45	1.3	NE	20/07/2017	03:55	0.9	NE	20/07/2017	11:05	1.8	SSW
7/19/2017	20:50	0.9	WSW	20/07/2017	04:00	0.9	ENE	20/07/2017	11:10	3.6	WNW
7/19/2017	20:55	3.6	NE	20/07/2017	04:05	2.7	WSW	20/07/2017	11:15	2.2	W
7/19/2017	21:00	3.1	NE	20/07/2017	04:10	2.2	ENE	20/07/2017	11:20	3.1	W
7/19/2017	21:05	4.5	NE	20/07/2017	04:15	0.9	NNW	20/07/2017	11:25	1.3	WNW
7/19/2017	21:10	1.8	NW	20/07/2017	04:20	0.4	E	20/07/2017	11:30	0.9	SSW
7/19/2017	21:15	1.8	W	20/07/2017	04:25	3.1	E	20/07/2017	11:35	0.4	E
7/19/2017	21:20	1.8	NNW	20/07/2017	04:30	1.3	NNW	20/07/2017	11:40	2.2	N
7/19/2017	21:25	4	NE	20/07/2017	04:35	1.8	NNW	20/07/2017	11:45	1.3	NE
7/19/2017	21:30	0.9	W	20/07/2017	04:40	1.3	NW	20/07/2017	11:50	2.2	W
7/19/2017	21:35	2.2	WNW	20/07/2017	04:45	1.3	SW	20/07/2017	11:55	1.3	ENE
7/19/2017	21:40	1.3	W	20/07/2017	04:50	1.3	N	20/07/2017	12:00	3.1	W
7/19/2017	21:45	1.8	W	20/07/2017	04:55	1.8	NW	20/07/2017	12:05	2.2	W
7/19/2017	21:50	3.6	ENE	20/07/2017	05:00	1.8	NE	20/07/2017	12:10	0.4	NNE
7/19/2017	21:55	1.8	W	20/07/2017	05:05	0.9	WNW	20/07/2017	12:15	1.8	SSE
7/19/2017	22:00	1.8	NE	20/07/2017	05:10	3.6	W	20/07/2017	12:20	2.7	W
7/19/2017	22:05	1.8	NNE	20/07/2017	05:15	1.8	E	20/07/2017	12:25	1.8	NNE
7/19/2017	22:10	2.7	E	20/07/2017	05:20	1.8	N	20/07/2017	12:30	0.9	ENE
7/19/2017	22:15	1.3	NNE	20/07/2017	05:25	1.8	SW	20/07/2017	12:35	2.2	WSW
7/19/2017	22:20	3.1	NW	20/07/2017	05:30	0.4	N	20/07/2017	12:40	2.2	W
7/19/2017	22:25	4.5	NE	20/07/2017	05:35	0.4	NNW	20/07/2017	12:45	3.1	W
7/19/2017	22:30	2.7	NNW	20/07/2017	05:40	0.4	WNW	20/07/2017	12:50	0.9	ENE
7/19/2017	22:35	4.5	ENE	20/07/2017	05:45	2.2	W	20/07/2017	12:55	3.6	W
7/19/2017	22:40	3.6	NE	20/07/2017	05:50	1.8	WSW	20/07/2017	13:00	1.3	SW
7/19/2017	22:45	2.2	WNW	20/07/2017	05:55	2.2	W	20/07/2017	13:05	2.7	W
7/19/2017	22:50	4	NE	20/07/2017	06:00	2.2	WNW	20/07/2017	13:10	2.7	N
7/19/2017	22:55	1.3	NNE	20/07/2017	06:05	0.4	NW	20/07/2017	13:15	1.8	NE
7/19/2017	23:00	1.3	NE	20/07/2017	06:10	2.2	ENE	20/07/2017	13:20	0.9	N
7/19/2017	23:05	5.4	ENE	20/07/2017	06:15	0.9	NW	20/07/2017	13:25	0.4	NW
7/19/2017	23:10	1.8	WNW	20/07/2017	06:20	1.3	NE	20/07/2017	13:30	0.9	NW
7/19/2017	23:15	1.3	NE	20/07/2017	06:25	0.4	NNE	20/07/2017	13:35	0.9	NE
7/19/2017	23:20	4	NE	20/07/2017	06:30	1.8	W	20/07/2017	13:40	1.8	W
7/19/2017	23:25	0.9	N	20/07/2017	06:35	1.8	WSW	20/07/2017	13:45	1.8	SW
7/19/2017	23:30	4	ENE	20/07/2017	06:40	0.9	SSE	20/07/2017	13:50	1.3	W
7/19/2017	23:35	0.4	ENE	20/07/2017	06:45	0.9	W	20/07/2017	13:55	1.8	SW
7/19/2017	23:40	2.7	ENE	20/07/2017	06:50	1.8	WSW	20/07/2017	14:00	1.8	ENE
7/19/2017	23:45	4.9	ENE	20/07/2017	06:55	1.3	WNW	20/07/2017	14:05	0.9	NW
7/19/2017	23:50	1.3	NE	20/07/2017	07:00	2.2	W	20/07/2017	14:10	1.8	W
7/19/2017	23:55	1.3	NE	20/07/2017	07:05	0.4	NE	20/07/2017	14:15	0.4	NNE
7/20/2017	00:00	3.6	ENE	20/07/2017	07:10	2.2	WSW	20/07/2017	14:20	2.2	W
20/07/2017	00:05	2.7	W	20/07/2017	07:15	0.9	NE	20/07/2017	14:25	2.7	W
20/07/2017	00:10	1.3	WSW	20/07/2017	07:20	2.2	NW	20/07/2017	14:30	3.6	WNW
20/07/2017	00:15	2.2	E	20/07/2017	07:25	2.7	W	20/07/2017	14:35	1.8	W
20/07/2017	00:20	0.9	NE	20/07/2017	07:30	2.7	W	20/07/2017	14:40	2.7	W
20/07/2017	00:25	2.7	W	20/07/2017	07:35	1.3	NE	20/07/2017	14:45	1.3	WSW
20/07/2017	00:30	1.8	ENE	20/07/2017	07:40	1.3	NNW	20/07/2017	14:50	2.7	W
20/07/2017	00:35	3.1	W	20/07/2017	07:45	2.2	ENE	20/07/2017	14:55	0.9	SSE
20/07/2017	00:40	1.8	W	20/07/2017	07:50	2.2	W	20/07/2017	15:00	0.9	E
20/07/2017	00:45	3.1	W	20/07/2017	07:55	2.2	ENE	20/07/2017	15:05	1.3	WSW
20/07/2017	00:50	2.7	W	20/07/2017	08:00	2.7	E	20/07/2017	15:10	1.8	SSW
20/07/2017	00:55	3.1	W	20/07/2017	08:05	1.3	E	20/07/2017	15:15	0.4	E
20/07/2017	01:00	0.9	N	20/07/2017	08:10	0.9	WNW	20/07/2017	15:20	2.7	WSW
20/07/2017	01:05	2.7	ENE	20/07/2017	08:15	0.9	N	20/07/2017	15:25	2.2	W
20/07/2017	01:10	2.7	NW	20/07/2017	08:20	0.9	NE	20/07/2017	15:30	0.9	W
20/07/2017	01:15	3.1	W	20/07/2017	08:25	3.6	W	20/07/2017	15:35	3.6	W
20/07/2017	01:20	1.3	ENE	20/07/2017	08:30	2.2	E	20/07/2017	15:40	2.7	SW
20/07/2017	01:25	1.3	NNE	20/07/2017	08:35	1.3	WNW	20/07/2017	15:45	0.9	ENE
20/07/2017	01:30	1.3	SW	20/07/2017	08:40	3.1	W	20/07/2017	15:50	1.3	NNE
20/07/2017	01:35	1.8	W	20/07/2017	08:45	1.8	NE	20/07/2017	15:55	0.9	NNE
20/07/2017	01:40	1.8	SW	20/07/2017	08:50	1.3	WNW	20/07/2017	16:00	2.2	WNW
20/07/2017	01:45	0.9	WNW	20/07/2017	08:55	1.8	W	20/07/2017	16:05	1.3	W
20/07/2017	01:50	2.2	W	20/07/2017	09:00	3.1	W	20/07/2017	16:10	1.3	W
20/07/2017	01:55	0.9	NE	20/07/2017	09:05	0.9	SSW	20/07/2017	16:15	0.9	ENE
20/07/2017	02:00	0.9	N	20/07/2017	09:10	0.4	NNW	20/07/2017	16:20	1.3	W
20/07/2017	02:05	3.1	ENE	20/07/2017	09:15	0.9	NE	20/07/2017	16:25	0.9	NNE
20/07/2017	02:10	2.2	W	20/07/2017	09:20	1.3	ENE	20/07/2017	16:30	1.3	WNW
20/07/2017	02:15	0.9	NW	20/07/2017	09:25	0.9	NE	20/07/2017	16:35	0.4	NNE
20/07/2017	02:20	1.3	SE	20/07/2017	09:30	1.3	WNW	20/07/2017	16:40	1.3	WNW
20/07/2017	02:25	2.2	WNW	20/07/2017	09:35	2.2	WSW	20/07/2017	16:45	2.2	W
20/07/2017	02:30	1.8	NE	20/07/2017	09:40	0.9	NE	20/07/2017	16:50	2.2	W
20/07/2017	02:35	1.8	WNW	20/07/2017	09:45	2.7	WSW	20/07/2017	16:55	0.4	NW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
20/07/2017	17:00	0.4	ENE	7/21/2017	00:10	1.8	ENE	7/21/2017	07:20	0.4	N
20/07/2017	17:05	1.3	NNE	7/21/2017	00:15	1.8	ENE	7/21/2017	07:25	0.4	NNE
20/07/2017	17:10	2.7	W	7/21/2017	00:20	1.3	N	7/21/2017	07:30	0.9	NNW
20/07/2017	17:15	0.9	NE	7/21/2017	00:25	1.8	ENE	7/21/2017	07:35	1.3	WNW
20/07/2017	17:20	3.1	E	7/21/2017	00:30	1.3	NE	7/21/2017	07:40	1.3	N
20/07/2017	17:25	0.9	W	7/21/2017	00:35	0.9	N	7/21/2017	07:45	0.4	W
20/07/2017	17:30	0.4	WNW	7/21/2017	00:40	1.3	WNW	7/21/2017	07:50	2.2	WSW
20/07/2017	17:35	2.7	SW	7/21/2017	00:45	0.9	NE	7/21/2017	07:55	1.8	NE
20/07/2017	17:40	3.1	W	7/21/2017	00:50	1.3	WSW	7/21/2017	08:00	0.9	WNW
20/07/2017	17:45	1.8	W	7/21/2017	00:55	0.4	NNE	7/21/2017	08:05	1.8	W
20/07/2017	17:50	2.2	W	7/21/2017	01:00	0.9	SW	7/21/2017	08:10	1.8	W
20/07/2017	17:55	1.3	W	7/21/2017	01:05	1.3	W	7/21/2017	08:15	1.3	NE
20/07/2017	18:00	2.2	W	7/21/2017	01:10	2.2	W	7/21/2017	08:20	0.9	NW
20/07/2017	18:05	1.3	SW	7/21/2017	01:15	1.3	SW	7/21/2017	08:25	1.3	WNW
20/07/2017	18:10	2.2	W	7/21/2017	01:20	1.3	NW	7/21/2017	08:30	1.3	WSW
20/07/2017	18:15	1.8	NE	7/21/2017	01:25	1.3	W	7/21/2017	08:35	0.9	SW
20/07/2017	18:20	0.9	NE	7/21/2017	01:30	1.3	N	7/21/2017	08:40	1.8	N
20/07/2017	18:25	0.9	W	7/21/2017	01:35	0.4	NW	7/21/2017	08:45	1.8	SW
20/07/2017	18:30	0.9	E	7/21/2017	01:40	0.4	NW	7/21/2017	08:50	1.8	NW
20/07/2017	18:35	2.2	SSW	7/21/2017	01:45	1.8	N	7/21/2017	08:55	1.8	NW
20/07/2017	18:40	2.7	NE	7/21/2017	01:50	1.8	WSW	7/21/2017	09:00	2.2	WNW
20/07/2017	18:45	0.9	WSW	7/21/2017	01:55	0.9	WNW	7/21/2017	09:05	0.4	NW
20/07/2017	18:50	2.7	W	7/21/2017	02:00	1.3	WSW	7/21/2017	09:10	1.8	WSW
20/07/2017	18:55	0.9	NW	7/21/2017	02:05	0.4	ENE	7/21/2017	09:15	0.4	NW
20/07/2017	19:00	1.3	NNE	7/21/2017	02:10	2.7	W	7/21/2017	09:20	0.4	NE
20/07/2017	19:05	2.2	W	7/21/2017	02:15	1.8	W	7/21/2017	09:25	0.9	NE
20/07/2017	19:10	1.3	ENE	7/21/2017	02:20	1.3	W	7/21/2017	09:30	1.8	N
20/07/2017	19:15	2.7	W	7/21/2017	02:25	0.9	WNW	7/21/2017	09:35	2.2	W
20/07/2017	19:20	0.9	ENE	7/21/2017	02:30	1.3	N	7/21/2017	09:40	1.8	N
20/07/2017	19:25	1.3	W	7/21/2017	02:35	0.4	NE	7/21/2017	09:45	2.2	E
20/07/2017	19:30	1.3	SW	7/21/2017	02:40	2.2	W	7/21/2017	09:50	1.3	W
20/07/2017	19:35	1.8	WSW	7/21/2017	02:45	1.3	NE	7/21/2017	09:55	0.4	NE
20/07/2017	19:40	1.3	SW	7/21/2017	02:50	1.8	W	7/21/2017	10:00	1.3	ENE
20/07/2017	19:45	2.7	E	7/21/2017	02:55	1.8	W	7/21/2017	10:05	1.3	NE
20/07/2017	19:50	0.9	ENE	7/21/2017	03:00	1.3	N	7/21/2017	10:10	1.3	W
20/07/2017	19:55	0.4	NNE	7/21/2017	03:05	1.8	W	7/21/2017	10:15	1.3	NW
20/07/2017	20:00	2.2	W	7/21/2017	03:10	1.8	NW	7/21/2017	10:20	1.8	W
20/07/2017	20:05	0.9	NE	7/21/2017	03:15	1.8	NNW	7/21/2017	10:25	1.3	N
20/07/2017	20:10	3.1	W	7/21/2017	03:20	2.2	N	7/21/2017	10:30	0.9	NW
20/07/2017	20:15	0.9	NE	7/21/2017	03:25	1.3	NW	7/21/2017	10:35	0.9	NNE
20/07/2017	20:20	1.3	NE	7/21/2017	03:30	1.3	NE	7/21/2017	10:40	0.9	NE
20/07/2017	20:25	1.3	NNE	7/21/2017	03:35	1.8	WSW	7/21/2017	10:45	2.2	N
20/07/2017	20:30	1.3	NW	7/21/2017	03:40	1.3	NW	7/21/2017	10:50	0.4	NE
20/07/2017	20:35	1.3	W	7/21/2017	03:45	0.9	NW	7/21/2017	10:55	1.3	NW
20/07/2017	20:40	1.3	WSW	7/21/2017	03:50	1.3	E	7/21/2017	11:00	1.8	WSW
20/07/2017	20:45	1.8	WSW	7/21/2017	03:55	0.9	N	7/21/2017	11:05	0.4	NNE
20/07/2017	20:50	1.3	NNE	7/21/2017	04:00	0.9	NE	7/21/2017	11:10	0.4	NE
20/07/2017	20:55	0.9	NE	7/21/2017	04:05	0.4	NE	7/21/2017	11:15	1.3	W
20/07/2017	21:00	1.8	W	7/21/2017	04:10	1.3	NE	7/21/2017	11:20	1.3	NNW
20/07/2017	21:05	0.9	WNW	7/21/2017	04:15	1.3	NNW	7/21/2017	11:25	1.8	W
20/07/2017	21:10	1.3	SW	7/21/2017	04:20	2.2	WNW	7/21/2017	11:30	2.2	WSW
20/07/2017	21:15	2.2	W	7/21/2017	04:25	1.3	N	7/21/2017	11:35	1.3	WSW
20/07/2017	21:20	2.7	W	7/21/2017	04:30	1.8	N	7/21/2017	11:40	1.8	ENE
20/07/2017	21:25	2.7	ESE	7/21/2017	04:35	0.9	SW	7/21/2017	11:45	0.4	WSW
20/07/2017	21:30	1.3	NW	7/21/2017	04:40	0.4	NW	7/21/2017	11:50	1.3	NW
20/07/2017	21:35	2.2	W	7/21/2017	04:45	0.4	WNW	7/21/2017	11:55	2.2	WNW
20/07/2017	21:40	2.7	W	7/21/2017	04:50	1.3	ENE	7/21/2017	12:00	1.3	WNW
20/07/2017	21:45	0.9	WNW	7/21/2017	04:55	0.9	N	7/21/2017	12:05	1.8	NW
20/07/2017	21:50	0.9	NE	7/21/2017	05:00	2.2	NNW	7/21/2017	12:10	1.8	ENE
20/07/2017	21:55	0.9	ENE	7/21/2017	05:05	0.9	NNE	7/21/2017	12:15	1.3	NNW
20/07/2017	22:00	1.8	ENE	7/21/2017	05:10	1.3	N	7/21/2017	12:20	2.2	W
20/07/2017	22:05	2.7	WSW	7/21/2017	05:15	0.4	NNW	7/21/2017	12:25	0.9	WSW
20/07/2017	22:10	0.4	WNW	7/21/2017	05:20	1.3	N	7/21/2017	12:30	1.3	NNW
20/07/2017	22:15	2.7	ESE	7/21/2017	05:25	1.8	NW	7/21/2017	12:35	1.8	W
20/07/2017	22:20	1.3	WSW	7/21/2017	05:30	1.3	NNE	7/21/2017	12:40	0.4	NE
20/07/2017	22:25	0.9	SSW	7/21/2017	05:35	1.3	NW	7/21/2017	12:45	0.4	NE
20/07/2017	22:30	1.3	NE	7/21/2017	05:40	0.9	ENE	7/21/2017	12:50	0.4	WNW
20/07/2017	22:35	1.8	ENE	7/21/2017	05:45	1.8	W	7/21/2017	12:55	1.8	NNE
20/07/2017	22:40	3.6	W	7/21/2017	05:50	0.9	NE	7/21/2017	13:00	2.2	W
20/07/2017	22:45	2.2	W	7/21/2017	05:55	2.2	N	7/21/2017	13:05	1.8	W
20/07/2017	22:50	3.6	W	7/21/2017	06:00	2.2	W	7/21/2017	13:10	1.8	W
20/07/2017	22:55	0.9	N	7/21/2017	06:05	0.4	N	7/21/2017	13:15	1.3	NNW
20/07/2017	23:00	2.2	E	7/21/2017	06:10	1.8	WSW	7/21/2017	13:20	0.4	NW
20/07/2017	23:05	1.8	NW	7/21/2017	06:15	0.9	NNW	7/21/2017	13:25	1.8	W
20/07/2017	23:10	0.4	NW	7/21/2017	06:20	1.8	ENE	7/21/2017	13:30	0.4	N
20/07/2017	23:15	3.1	W	7/21/2017	06:25	1.8	WNW	7/21/2017	13:35	0.9	SW
20/07/2017	23:20	4	W	7/21/2017	06:30	0.4	ENE	7/21/2017	13:40	0.4	ENE
20/07/2017	23:25	0.9	WNW	7/21/2017	06:35	1.8	NW	7/21/2017	13:45	0.9	WSW
20/07/2017	23:30	0.9	W	7/21/2017	06:40	1.3	NNE	7/21/2017	13:50	1.3	NE
20/07/2017	23:35	2.2	SW	7/21/2017	06:45	0.9	NNE	7/21/2017	13:55	1.3	NE
20/07/2017	23:40	1.8	S	7/21/2017	06:50	1.3	W	7/21/2017	14:00	1.8	W
20/07/2017	23:45	2.2	W	7/21/2017	06:55	1.3	WNW	7/21/2017	14:05	2.2	W
20/07/2017	23:50	1.8	SW	7/21/2017	07:00	1.3	WSW	7/21/2017	14:10	0.4	N
20/07/2017	23:55	3.1	W	7/21/2017	07:05	0.9	NNE	7/21/2017	14:15	1.8	NE
21/07/2017	00:00	0.9	NW	7/21/2017	07:10	0.9	ENE	7/21/2017	14:20	0.9	NW
7/21/2017	00:05	0.9	NW	7/21/2017	07:15	0.4	NE	7/21/2017	14:25	1.8	N

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
7/21/2017	14:30	1.3	W	7/21/2017	21:40	1.8	W	22/07/2017	04:50	5.4	NE
7/21/2017	14:35	2.2	W	7/21/2017	21:45	0.4	W	22/07/2017	04:55	2.2	E
7/21/2017	14:40	0.4	NW	7/21/2017	21:50	2.2	WNW	22/07/2017	05:00	0.9	NE
7/21/2017	14:45	1.3	NE	7/21/2017	21:55	0.9	W	22/07/2017	05:05	1.3	ENE
7/21/2017	14:50	1.3	ENE	7/21/2017	22:00	1.3	NW	22/07/2017	05:10	1.8	NE
7/21/2017	14:55	1.3	NNW	7/21/2017	22:05	1.3	NE	22/07/2017	05:15	1.3	E
7/21/2017	15:00	0.4	NW	7/21/2017	22:10	0.9	NW	22/07/2017	05:20	1.3	WSW
7/21/2017	15:05	0.4	NNE	7/21/2017	22:15	0.4	W	22/07/2017	05:25	1.3	SW
7/21/2017	15:10	1.3	NW	7/21/2017	22:20	1.8	SW	22/07/2017	05:30	2.2	NE
7/21/2017	15:15	0.9	NNE	7/21/2017	22:25	1.8	N	22/07/2017	05:35	1.8	WSW
7/21/2017	15:20	0.9	NE	7/21/2017	22:30	1.8	NNE	22/07/2017	05:40	0.9	ENE
7/21/2017	15:25	1.3	NNW	7/21/2017	22:35	0.9	NW	22/07/2017	05:45	1.3	N
7/21/2017	15:30	1.8	W	7/21/2017	22:40	1.8	WSW	22/07/2017	05:50	1.3	NE
7/21/2017	15:35	0.9	NE	7/21/2017	22:45	0.4	WSW	22/07/2017	05:55	0.4	ENE
7/21/2017	15:40	0.4	NE	7/21/2017	22:50	0.9	WSW	22/07/2017	06:00	2.7	ENE
7/21/2017	15:45	1.8	N	7/21/2017	22:55	0.4	NW	22/07/2017	06:05	4.9	ENE
7/21/2017	15:50	1.8	W	7/21/2017	23:00	0.4	N	22/07/2017	06:10	1.8	E
7/21/2017	15:55	2.2	N	7/21/2017	23:05	0.9	NNE	22/07/2017	06:15	0.9	NE
7/21/2017	16:00	1.3	W	7/21/2017	23:10	1.3	ENE	22/07/2017	06:20	1.8	NE
7/21/2017	16:05	1.8	SW	7/21/2017	23:15	1.8	N	22/07/2017	06:25	0.4	ENE
7/21/2017	16:10	1.8	W	7/21/2017	23:20	1.8	WSW	22/07/2017	06:30	2.7	ENE
7/21/2017	16:15	0.9	NW	7/21/2017	23:25	0.4	NE	22/07/2017	06:35	4	E
7/21/2017	16:20	0.4	WSW	7/21/2017	23:30	0.9	NE	22/07/2017	06:40	0.9	NNE
7/21/2017	16:25	2.2	W	7/21/2017	23:35	0.9	SSW	22/07/2017	06:45	3.1	WSW
7/21/2017	16:30	1.3	NE	7/21/2017	23:40	0.4	NNW	22/07/2017	06:50	0.9	NE
7/21/2017	16:35	1.3	NE	7/21/2017	23:45	2.2	WSW	22/07/2017	06:55	0.9	ENE
7/21/2017	16:40	0.9	NNW	7/21/2017	23:50	0.9	N	22/07/2017	07:00	2.2	NE
7/21/2017	16:45	1.8	W	7/21/2017	23:55	1.3	NNE	22/07/2017	07:05	0.9	NE
7/21/2017	16:50	1.8	ENE	7/22/2017	00:00	0.9	SW	22/07/2017	07:10	1.3	WSW
7/21/2017	16:55	2.2	W	22/07/2017	00:05	0.4	ESE	22/07/2017	07:15	2.7	ENE
7/21/2017	17:00	0.4	NE	22/07/2017	00:10	2.7	NE	22/07/2017	07:20	0.4	NE
7/21/2017	17:05	0.4	N	22/07/2017	00:15	3.1	ENE	22/07/2017	07:25	3.1	WSW
7/21/2017	17:10	2.2	W	22/07/2017	00:20	2.7	NE	22/07/2017	07:30	4.9	NE
7/21/2017	17:15	2.2	WNW	22/07/2017	00:25	0.9	NE	22/07/2017	07:35	0.9	NNE
7/21/2017	17:20	1.8	NW	22/07/2017	00:30	0.9	SW	22/07/2017	07:40	0.9	NE
7/21/2017	17:25	1.3	NE	22/07/2017	00:35	1.3	SW	22/07/2017	07:45	2.2	NNE
7/21/2017	17:30	2.2	NNW	22/07/2017	00:40	1.8	NE	22/07/2017	07:50	1.8	WSW
7/21/2017	17:35	1.3	NW	22/07/2017	00:45	1.8	NE	22/07/2017	07:55	4.9	ENE
7/21/2017	17:40	2.2	WNW	22/07/2017	00:50	3.6	NE	22/07/2017	08:00	2.7	ENE
7/21/2017	17:45	1.8	NNW	22/07/2017	00:55	0.9	NE	22/07/2017	08:05	1.3	WSW
7/21/2017	17:50	1.3	NE	22/07/2017	01:00	2.2	E	22/07/2017	08:10	1.8	ENE
7/21/2017	17:55	0.4	WNW	22/07/2017	01:05	1.3	ENE	22/07/2017	08:15	2.2	E
7/21/2017	18:00	1.3	N	22/07/2017	01:10	3.1	NE	22/07/2017	08:20	0.4	WNW
7/21/2017	18:05	2.2	W	22/07/2017	01:15	4.9	NE	22/07/2017	08:25	0.4	WNW
7/21/2017	18:10	0.9	NE	22/07/2017	01:20	4	ENE	22/07/2017	08:30	0.4	WNW
7/21/2017	18:15	1.8	W	22/07/2017	01:25	0.4	WNW	22/07/2017	08:35	1.8	E
7/21/2017	18:20	0.9	NE	22/07/2017	01:30	2.7	NE	22/07/2017	08:40	5.8	ENE
7/21/2017	18:25	0.4	NNE	22/07/2017	01:35	0.9	NE	22/07/2017	08:45	0.4	W
7/21/2017	18:30	0.9	NW	22/07/2017	01:40	1.3	E	22/07/2017	08:50	1.8	NNW
7/21/2017	18:35	0.9	N	22/07/2017	01:45	0.4	SW	22/07/2017	08:55	5.4	ENE
7/21/2017	18:40	1.3	N	22/07/2017	01:50	0.4	SW	22/07/2017	09:00	3.1	WSW
7/21/2017	18:45	1.8	SW	22/07/2017	01:55	1.8	NNE	22/07/2017	09:05	2.2	NNE
7/21/2017	18:50	1.8	NNE	22/07/2017	02:00	2.2	ENE	22/07/2017	09:10	2.7	E
7/21/2017	18:55	1.3	WNW	22/07/2017	02:05	6.7	NE	22/07/2017	09:15	1.3	WSW
7/21/2017	19:00	1.8	N	22/07/2017	02:10	0.9	NE	22/07/2017	09:20	3.1	ENE
7/21/2017	19:05	1.3	WSW	22/07/2017	02:15	5.8	NE	22/07/2017	09:25	1.3	ENE
7/21/2017	19:10	0.4	NE	22/07/2017	02:20	0.4	ENE	22/07/2017	09:30	0.4	SW
7/21/2017	19:15	0.9	NNW	22/07/2017	02:25	0.9	NE	22/07/2017	09:35	0.9	NE
7/21/2017	19:20	1.8	WNW	22/07/2017	02:30	0.4	SW	22/07/2017	09:40	2.7	NE
7/21/2017	19:25	2.2	W	22/07/2017	02:35	3.6	ENE	22/07/2017	09:45	1.3	SW
7/21/2017	19:30	1.3	W	22/07/2017	02:40	0.9	ENE	22/07/2017	09:50	4	ENE
7/21/2017	19:35	1.3	WNW	22/07/2017	02:45	1.3	ENE	22/07/2017	09:55	3.1	NE
7/21/2017	19:40	0.9	N	22/07/2017	02:50	1.3	WSW	22/07/2017	10:00	3.6	NE
7/21/2017	19:45	0.4	NE	22/07/2017	02:55	0.9	NNE	22/07/2017	10:05	0.9	ENE
7/21/2017	19:50	1.8	N	22/07/2017	03:00	4	ENE	22/07/2017	10:10	1.3	WNW
7/21/2017	19:55	0.9	N	22/07/2017	03:05	2.2	NNE	22/07/2017	10:15	2.7	ENE
7/21/2017	20:00	1.3	E	22/07/2017	03:10	2.7	ENE	22/07/2017	10:20	0.4	SW
7/21/2017	20:05	0.4	NNE	22/07/2017	03:15	3.1	E	22/07/2017	10:25	0.9	NNE
7/21/2017	20:10	0.9	NE	22/07/2017	03:20	1.3	E	22/07/2017	10:30	2.7	ENE
7/21/2017	20:15	0.9	WNW	22/07/2017	03:25	0.4	WNW	22/07/2017	10:35	1.8	NE
7/21/2017	20:20	1.8	W	22/07/2017	03:30	1.8	ENE	22/07/2017	10:40	5.4	ENE
7/21/2017	20:25	0.9	SW	22/07/2017	03:35	1.8	NE	22/07/2017	10:45	3.1	NE
7/21/2017	20:30	1.8	W	22/07/2017	03:40	3.1	NE	22/07/2017	10:50	0.4	W
7/21/2017	20:35	0.9	NE	22/07/2017	03:45	2.7	E	22/07/2017	10:55	2.2	E
7/21/2017	20:40	1.3	NNE	22/07/2017	03:50	4.9	ENE	22/07/2017	11:00	2.2	NE
7/21/2017	20:45	0.4	ENE	22/07/2017	03:55	1.8	ENE	22/07/2017	11:05	5.8	ENE
7/21/2017	20:50	0.4	SW	22/07/2017	04:00	1.8	E	22/07/2017	11:10	3.6	NE
7/21/2017	20:55	0.9	N	22/07/2017	04:05	2.7	ENE	22/07/2017	11:15	2.2	NE
7/21/2017	21:00	0.4	WSW	22/07/2017	04:10	2.2	WSW	22/07/2017	11:20	3.6	E
7/21/2017	21:05	1.3	W	22/07/2017	04:15	0.9	WNW	22/07/2017	11:25	2.2	NE
7/21/2017	21:10	1.3	NW	22/07/2017	04:20	0.9	ENE	22/07/2017	11:30	0.9	NNE
7/21/2017	21:15	2.2	W	22/07/2017	04:25	2.2	ENE	22/07/2017	11:35	0.4	ENE
7/21/2017	21:20	0.4	NE	22/07/2017	04:30	0.9	NE	22/07/2017	11:40	0.9	NE
7/21/2017	21:25	2.7	WNW	22/07/2017	04:35	0.9	NNE	22/07/2017	11:45	0.9	NNE
7/21/2017	21:30	0.9	ENE	22/07/2017	04:40	3.6	NE	22/07/2017	11:50	0.4	ENE
7/21/2017	21:35	1.3	N	22/07/2017	04:45	0.9	E	22/07/2017	11:55	2.2	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
22/07/2017	12:00	5.8	NE	22/07/2017	19:10	1.8	NE	23/07/2017	02:20	1.3	ENE
22/07/2017	12:05	1.3	NE	22/07/2017	19:15	0.9	NE	23/07/2017	02:25	1.3	ENE
22/07/2017	12:10	3.1	NE	22/07/2017	19:20	0.9	ENE	23/07/2017	02:30	0.9	NNW
22/07/2017	12:15	3.1	NE	22/07/2017	19:25	2.7	ENE	23/07/2017	02:35	1.8	NNE
22/07/2017	12:20	2.7	ENE	22/07/2017	19:30	2.7	ENE	23/07/2017	02:40	4.9	NE
22/07/2017	12:25	1.3	NNE	22/07/2017	19:35	2.7	NE	23/07/2017	02:45	2.2	ENE
22/07/2017	12:30	0.9	ENE	22/07/2017	19:40	2.2	E	23/07/2017	02:50	1.8	NNE
22/07/2017	12:35	2.7	E	22/07/2017	19:45	3.1	NE	23/07/2017	02:55	1.8	ENE
22/07/2017	12:40	2.7	NE	22/07/2017	19:50	1.3	NW	23/07/2017	03:00	1.8	NE
22/07/2017	12:45	2.2	NNE	22/07/2017	19:55	3.1	NE	23/07/2017	03:05	0.9	W
22/07/2017	12:50	3.1	WSW	22/07/2017	20:00	2.7	ENE	23/07/2017	03:10	1.3	ENE
22/07/2017	12:55	0.9	ENE	22/07/2017	20:05	2.2	WSW	23/07/2017	03:15	1.8	ENE
22/07/2017	13:00	0.9	NE	22/07/2017	20:10	1.3	WSW	23/07/2017	03:20	1.3	ENE
22/07/2017	13:05	0.9	W	22/07/2017	20:15	2.2	NE	23/07/2017	03:25	0.4	ESE
22/07/2017	13:10	2.2	E	22/07/2017	20:20	3.6	NE	23/07/2017	03:30	0.4	WNW
22/07/2017	13:15	1.3	SW	22/07/2017	20:25	3.1	NE	23/07/2017	03:35	1.3	ENE
22/07/2017	13:20	2.2	NE	22/07/2017	20:30	0.9	NE	23/07/2017	03:40	0.9	W
22/07/2017	13:25	2.7	NE	22/07/2017	20:35	0.4	WNW	23/07/2017	03:45	0.9	NW
22/07/2017	13:30	1.8	E	22/07/2017	20:40	4.9	NE	23/07/2017	03:50	1.8	NE
22/07/2017	13:35	0.9	NE	22/07/2017	20:45	1.3	E	23/07/2017	03:55	2.2	E
22/07/2017	13:40	2.7	NE	22/07/2017	20:50	3.1	NE	23/07/2017	04:00	0.4	ESE
22/07/2017	13:45	2.7	NE	22/07/2017	20:55	3.1	E	23/07/2017	04:05	0.4	ESE
22/07/2017	13:50	2.7	E	22/07/2017	21:00	2.2	NE	23/07/2017	04:10	1.3	NE
22/07/2017	13:55	1.8	ENE	22/07/2017	21:05	5.4	NE	23/07/2017	04:15	0.4	NW
22/07/2017	14:00	1.8	NE	22/07/2017	21:10	2.7	ENE	23/07/2017	04:20	0.9	SW
22/07/2017	14:05	0.4	ENE	22/07/2017	21:15	2.2	WSW	23/07/2017	04:25	2.2	NE
22/07/2017	14:10	3.1	ENE	22/07/2017	21:20	0.4	ESE	23/07/2017	04:30	0.4	ESE
22/07/2017	14:15	0.9	ENE	22/07/2017	21:25	5.4	NE	23/07/2017	04:35	1.8	ENE
22/07/2017	14:20	0.9	NE	22/07/2017	21:30	2.2	E	23/07/2017	04:40	0.4	ESE
22/07/2017	14:25	1.8	NE	22/07/2017	21:35	1.8	NE	23/07/2017	04:45	1.8	NE
22/07/2017	14:30	2.7	ENE	22/07/2017	21:40	2.7	ENE	23/07/2017	04:50	1.3	W
22/07/2017	14:35	0.4	NNW	22/07/2017	21:45	2.2	NE	23/07/2017	04:55	0.4	ENE
22/07/2017	14:40	1.8	E	22/07/2017	21:50	0.9	NE	23/07/2017	05:00	3.1	ENE
22/07/2017	14:45	1.8	NE	22/07/2017	21:55	0.9	NE	23/07/2017	05:05	1.3	NNE
22/07/2017	14:50	0.4	W	22/07/2017	22:00	1.3	NNE	23/07/2017	05:10	3.1	NNE
22/07/2017	14:55	0.4	SW	22/07/2017	22:05	0.9	NNE	23/07/2017	05:15	0.4	ESE
22/07/2017	15:00	1.8	E	22/07/2017	22:10	1.8	NNE	23/07/2017	05:20	0.4	ESE
22/07/2017	15:05	2.7	NE	22/07/2017	22:15	1.3	N	23/07/2017	05:25	0.4	ESE
22/07/2017	15:10	0.9	NE	22/07/2017	22:20	3.1	NE	23/07/2017	05:30	2.2	NE
22/07/2017	15:15	0.9	NE	22/07/2017	22:25	0.9	NE	23/07/2017	05:35	0.4	ESE
22/07/2017	15:20	4.9	NE	22/07/2017	22:30	2.7	NE	23/07/2017	05:40	0.9	W
22/07/2017	15:25	0.4	SW	22/07/2017	22:35	0.9	NE	23/07/2017	05:45	0.4	SW
22/07/2017	15:30	1.3	WSW	22/07/2017	22:40	1.8	NE	23/07/2017	05:50	1.3	NNE
22/07/2017	15:35	1.8	NNE	22/07/2017	22:45	2.2	E	23/07/2017	05:55	0.4	ESE
22/07/2017	15:40	0.4	ENE	22/07/2017	22:50	0.9	NE	23/07/2017	06:00	0.4	ESE
22/07/2017	15:45	2.2	ENE	22/07/2017	22:55	1.8	WSW	23/07/2017	06:05	0.4	SW
22/07/2017	15:50	0.9	NNE	22/07/2017	23:00	0.9	NE	23/07/2017	06:10	0.4	ESE
22/07/2017	15:55	2.2	NE	22/07/2017	23:05	0.9	NE	23/07/2017	06:15	2.2	E
22/07/2017	16:00	2.7	NE	22/07/2017	23:10	2.7	NNE	23/07/2017	06:20	0.9	ESE
22/07/2017	16:05	4.9	ENE	22/07/2017	23:15	2.7	NE	23/07/2017	06:25	3.6	NE
22/07/2017	16:10	0.9	NNE	22/07/2017	23:20	1.3	ENE	23/07/2017	06:30	1.3	WNW
22/07/2017	16:15	0.9	ENE	22/07/2017	23:25	2.2	NE	23/07/2017	06:35	0.4	N
22/07/2017	16:20	3.6	NE	22/07/2017	23:30	2.2	NNE	23/07/2017	06:40	3.1	E
22/07/2017	16:25	5.4	NE	22/07/2017	23:35	1.8	E	23/07/2017	06:45	0.9	NW
22/07/2017	16:30	0.9	NNE	22/07/2017	23:40	0.4	ENE	23/07/2017	06:50	1.3	N
22/07/2017	16:35	1.3	NNE	22/07/2017	23:45	5.4	ENE	23/07/2017	06:55	0.4	ESE
22/07/2017	16:40	1.3	NE	22/07/2017	23:50	1.8	NE	23/07/2017	07:00	2.2	ENE
22/07/2017	16:45	0.9	NE	22/07/2017	23:55	0.9	NE	23/07/2017	07:05	0.9	NNW
22/07/2017	16:50	2.2	NNE	23/07/2017	00:00	1.8	NNE	23/07/2017	07:10	1.8	NE
22/07/2017	16:55	1.8	ENE	23/07/2017	00:05	0.4	ESE	23/07/2017	07:15	0.4	ESE
22/07/2017	17:00	4	ENE	23/07/2017	00:10	0.9	W	23/07/2017	07:20	0.4	ESE
22/07/2017	17:05	1.8	NE	23/07/2017	00:15	0.4	ESE	23/07/2017	07:25	0.4	ESE
22/07/2017	17:10	0.9	W	23/07/2017	00:20	0.4	SW	23/07/2017	07:30	2.7	ENE
22/07/2017	17:15	1.3	NNE	23/07/2017	00:25	0.4	NE	23/07/2017	07:35	0.4	SW
22/07/2017	17:20	3.1	ENE	23/07/2017	00:30	4.5	NE	23/07/2017	07:40	0.9	SSW
22/07/2017	17:25	1.8	WSW	23/07/2017	00:35	3.1	E	23/07/2017	07:45	3.1	ENE
22/07/2017	17:30	0.9	NE	23/07/2017	00:40	1.3	NNE	23/07/2017	07:50	1.8	NE
22/07/2017	17:35	1.8	NE	23/07/2017	00:45	4.9	NE	23/07/2017	07:55	3.6	ENE
22/07/2017	17:40	4.9	ENE	23/07/2017	00:50	1.3	NNE	23/07/2017	08:00	1.3	NNE
22/07/2017	17:45	0.9	W	23/07/2017	00:55	2.7	ENE	23/07/2017	08:05	0.4	ESE
22/07/2017	17:50	1.3	ENE	23/07/2017	01:00	2.2	ENE	23/07/2017	08:10	1.8	NE
22/07/2017	17:55	2.2	ENE	23/07/2017	01:05	0.9	ESE	23/07/2017	08:15	2.7	ENE
22/07/2017	18:00	4.9	NE	23/07/2017	01:10	0.4	ESE	23/07/2017	08:20	1.8	NNE
22/07/2017	18:05	0.9	E	23/07/2017	01:15	0.9	NW	23/07/2017	08:25	0.4	SW
22/07/2017	18:10	4.9	ENE	23/07/2017	01:20	2.7	ENE	23/07/2017	08:30	1.3	NNE
22/07/2017	18:15	2.2	WSW	23/07/2017	01:25	0.4	ESE	23/07/2017	08:35	1.3	E
22/07/2017	18:20	2.7	ENE	23/07/2017	01:30	0.4	ESE	23/07/2017	08:40	2.2	ENE
22/07/2017	18:25	1.8	NE	23/07/2017	01:35	4	NE	23/07/2017	08:45	1.3	E
22/07/2017	18:30	0.4	NE	23/07/2017	01:40	0.4	ESE	23/07/2017	08:50	0.9	SSW
22/07/2017	18:35	0.9	NNE	23/07/2017	01:45	0.9	NW	23/07/2017	08:55	0.4	ESE
22/07/2017	18:40	0.4	WNW	23/07/2017	01:50	0.4	ESE	23/07/2017	09:00	1.8	NNE
22/07/2017	18:45	2.7	ENE	23/07/2017	01:55	0.4	ESE	23/07/2017	09:05	1.8	NNE
22/07/2017	18:50	2.7	ENE	23/07/2017	02:00	0.4	ESE	23/07/2017	09:10	3.6	NE
22/07/2017	18:55	2.2	NNE	23/07/2017	02:05	0.9	WNW	23/07/2017	09:15	0.9	ESE
22/07/2017	19:00	2.7	NE	23/07/2017	02:10	0.4	ESE	23/07/2017	09:20	0.4	ENE
22/07/2017	19:05	2.7	ENE	23/07/2017	02:15	0.4	ESE	23/07/2017	09:25	0.9	ESE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
23/07/2017	09:30	1.8	ENE	23/07/2017	16:40	2.7	E	23/07/2017	23:50	1.3	ENE
23/07/2017	09:35	1.8	N	23/07/2017	16:45	1.3	N	23/07/2017	23:55	0.4	W
23/07/2017	09:40	2.2	ENE	23/07/2017	16:50	0.4	ESE	24/07/2017	00:00	3.1	NE
23/07/2017	09:45	0.9	NW	23/07/2017	16:55	0.4	ESE	24/07/2017	00:05	2.2	ENE
23/07/2017	09:50	0.4	ESE	23/07/2017	17:00	0.4	ESE	24/07/2017	00:10	4.5	NE
23/07/2017	09:55	1.3	WNW	23/07/2017	17:05	4.9	E	24/07/2017	00:15	1.8	WSW
23/07/2017	10:00	0.4	ESE	23/07/2017	17:10	1.3	NNE	24/07/2017	00:20	0.9	ENE
23/07/2017	10:05	0.9	SW	23/07/2017	17:15	1.8	NE	24/07/2017	00:25	0.9	NNW
23/07/2017	10:10	0.9	W	23/07/2017	17:20	5.4	NE	24/07/2017	00:30	1.3	W
23/07/2017	10:15	1.8	ENE	23/07/2017	17:25	1.8	NNE	24/07/2017	00:35	4.5	ENE
23/07/2017	10:20	1.3	SW	23/07/2017	17:30	0.4	ESE	24/07/2017	00:40	1.8	ENE
23/07/2017	10:25	1.3	ENE	23/07/2017	17:35	0.9	W	24/07/2017	00:45	3.1	W
23/07/2017	10:30	1.3	ENE	23/07/2017	17:40	1.3	SW	24/07/2017	00:50	1.3	ENE
23/07/2017	10:35	1.8	NE	23/07/2017	17:45	0.4	ESE	24/07/2017	00:55	2.2	NE
23/07/2017	10:40	0.9	ESE	23/07/2017	17:50	0.9	NW	24/07/2017	01:00	3.1	NE
23/07/2017	10:45	0.4	ESE	23/07/2017	17:55	0.4	ENE	24/07/2017	01:05	4	NE
23/07/2017	10:50	0.4	ESE	23/07/2017	18:00	1.3	NE	24/07/2017	01:10	0.9	NNE
23/07/2017	10:55	1.3	NNE	23/07/2017	18:05	0.4	ESE	24/07/2017	01:15	0.9	WSW
23/07/2017	11:00	1.8	ENE	23/07/2017	18:10	1.8	NE	24/07/2017	01:20	2.2	E
23/07/2017	11:05	5.4	NE	23/07/2017	18:15	2.7	SSE	24/07/2017	01:25	0.9	ENE
23/07/2017	11:10	0.4	ESE	23/07/2017	18:20	3.1	NE	24/07/2017	01:30	1.8	W
23/07/2017	11:15	1.3	WSW	23/07/2017	18:25	1.3	E	24/07/2017	01:35	0.9	NE
23/07/2017	11:20	0.4	ESE	23/07/2017	18:30	1.8	NNE	24/07/2017	01:40	1.8	NE
23/07/2017	11:25	0.4	ESE	23/07/2017	18:35	0.4	ESE	24/07/2017	01:45	3.6	NE
23/07/2017	11:30	1.3	NNE	23/07/2017	18:40	1.8	NNE	24/07/2017	01:50	2.2	E
23/07/2017	11:35	0.4	ESE	23/07/2017	18:45	0.4	ENE	24/07/2017	01:55	4	ENE
23/07/2017	11:40	1.3	ENE	23/07/2017	18:50	0.9	NNW	24/07/2017	02:00	1.8	NE
23/07/2017	11:45	4	ENE	23/07/2017	18:55	0.9	ESE	24/07/2017	02:05	2.2	NE
23/07/2017	11:50	0.9	W	23/07/2017	19:00	0.9	W	24/07/2017	02:10	2.7	NE
23/07/2017	11:55	0.4	ESE	23/07/2017	19:05	0.9	SSW	24/07/2017	02:15	3.1	NE
23/07/2017	12:00	1.3	NNW	23/07/2017	19:10	0.9	ESE	24/07/2017	02:20	1.3	NE
23/07/2017	12:05	0.4	ENE	23/07/2017	19:15	2.2	ENE	24/07/2017	02:25	0.9	N
23/07/2017	12:10	0.4	ESE	23/07/2017	19:20	0.4	ENE	24/07/2017	02:30	3.6	E
23/07/2017	12:15	1.3	ENE	23/07/2017	19:25	0.4	ESE	24/07/2017	02:35	4.5	NE
23/07/2017	12:20	1.8	N	23/07/2017	19:30	2.7	ENE	24/07/2017	02:40	3.1	ENE
23/07/2017	12:25	0.4	NE	23/07/2017	19:35	1.3	ENE	24/07/2017	02:45	1.8	NNW
23/07/2017	12:30	2.2	ENE	23/07/2017	19:40	1.3	SW	24/07/2017	02:50	3.1	NE
23/07/2017	12:35	0.4	ESE	23/07/2017	19:45	0.9	ESE	24/07/2017	02:55	0.4	NNE
23/07/2017	12:40	2.2	ENE	23/07/2017	19:50	0.9	W	24/07/2017	03:00	2.7	W
23/07/2017	12:45	0.4	ESE	23/07/2017	19:55	1.8	ENE	24/07/2017	03:05	1.8	NNE
23/07/2017	12:50	0.4	ESE	23/07/2017	20:00	1.8	NE	24/07/2017	03:10	1.8	NNE
23/07/2017	12:55	0.4	ESE	23/07/2017	20:05	1.3	NE	24/07/2017	03:15	4	WSW
23/07/2017	13:00	2.2	ENE	23/07/2017	20:10	2.7	NE	24/07/2017	03:20	3.6	NNE
23/07/2017	13:05	1.8	E	23/07/2017	20:15	0.4	SW	24/07/2017	03:25	2.2	WNW
23/07/2017	13:10	3.1	ESE	23/07/2017	20:20	0.4	ENE	24/07/2017	03:30	0.4	NNE
23/07/2017	13:15	0.9	W	23/07/2017	20:25	0.9	NW	24/07/2017	03:35	0.9	NE
23/07/2017	13:20	0.9	NW	23/07/2017	20:30	0.4	ESE	24/07/2017	03:40	4.5	ENE
23/07/2017	13:25	0.9	NW	23/07/2017	20:35	1.3	NE	24/07/2017	03:45	1.3	N
23/07/2017	13:30	0.9	NNE	23/07/2017	20:40	0.4	ESE	24/07/2017	03:50	4	W
23/07/2017	13:35	3.1	ESE	23/07/2017	20:45	0.4	ESE	24/07/2017	03:55	2.2	NE
23/07/2017	13:40	0.4	ESE	23/07/2017	20:50	1.8	NE	24/07/2017	04:00	1.8	NNE
23/07/2017	13:45	0.9	ENE	23/07/2017	20:55	0.4	ESE	24/07/2017	04:05	0.9	NNE
23/07/2017	13:50	1.8	NNE	23/07/2017	21:00	2.2	NE	24/07/2017	04:10	1.8	NW
23/07/2017	13:55	0.9	ESE	23/07/2017	21:05	0.9	SW	24/07/2017	04:15	0.9	NW
23/07/2017	14:00	0.9	NW	23/07/2017	21:10	0.9	W	24/07/2017	04:20	0.9	ENE
23/07/2017	14:05	1.3	E	23/07/2017	21:15	0.9	W	24/07/2017	04:25	1.8	W
23/07/2017	14:10	1.3	N	23/07/2017	21:20	1.8	NE	24/07/2017	04:30	4	NE
23/07/2017	14:15	1.8	ENE	23/07/2017	21:25	3.1	NNE	24/07/2017	04:35	1.8	W
23/07/2017	14:20	0.9	SW	23/07/2017	21:30	2.7	ENE	24/07/2017	04:40	1.8	W
23/07/2017	14:25	2.2	ENE	23/07/2017	21:35	0.4	NNE	24/07/2017	04:45	3.6	ENE
23/07/2017	14:30	1.3	NE	23/07/2017	21:40	1.3	ENE	24/07/2017	04:50	0.9	N
23/07/2017	14:35	0.4	NNW	23/07/2017	21:45	1.3	NNE	24/07/2017	04:55	1.3	N
23/07/2017	14:40	0.9	SSW	23/07/2017	21:50	0.4	ESE	24/07/2017	05:00	0.9	NE
23/07/2017	14:45	0.9	W	23/07/2017	21:55	0.4	ESE	24/07/2017	05:05	0.9	NNE
23/07/2017	14:50	0.4	ESE	23/07/2017	22:00	1.3	W	24/07/2017	05:10	1.3	NE
23/07/2017	14:55	0.9	ENE	23/07/2017	22:05	0.4	ESE	24/07/2017	05:15	1.3	NE
23/07/2017	15:00	0.9	W	23/07/2017	22:10	0.4	NNE	24/07/2017	05:20	0.9	NNE
23/07/2017	15:05	0.4	ENE	23/07/2017	22:15	0.9	W	24/07/2017	05:25	1.8	W
23/07/2017	15:10	0.9	NW	23/07/2017	22:20	0.4	N	24/07/2017	05:30	0.4	ESE
23/07/2017	15:15	1.3	NNE	23/07/2017	22:25	0.4	ESE	24/07/2017	05:35	2.2	W
23/07/2017	15:20	2.2	ENE	23/07/2017	22:30	4.5	E	24/07/2017	05:40	3.6	WNW
23/07/2017	15:25	1.8	NNE	23/07/2017	22:35	0.4	ESE	24/07/2017	05:45	1.3	NE
23/07/2017	15:30	0.9	ESE	23/07/2017	22:40	0.9	W	24/07/2017	05:50	3.1	W
23/07/2017	15:35	2.2	NE	23/07/2017	22:45	2.7	ENE	24/07/2017	05:55	2.7	NE
23/07/2017	15:40	2.7	NE	23/07/2017	22:50	2.2	ENE	24/07/2017	06:00	2.7	W
23/07/2017	15:45	4	NE	23/07/2017	22:55	0.4	ESE	24/07/2017	06:05	2.7	W
23/07/2017	15:50	0.9	ESE	23/07/2017	23:00	0.4	ESE	24/07/2017	06:10	1.3	ENE
23/07/2017	15:55	1.8	NNE	23/07/2017	23:05	0.9	W	24/07/2017	06:15	3.1	ENE
23/07/2017	16:00	0.9	W	23/07/2017	23:10	4	NE	24/07/2017	06:20	2.7	E
23/07/2017	16:05	0.9	NW	23/07/2017	23:15	1.8	NNE	24/07/2017	06:25	1.3	NW
23/07/2017	16:10	1.8	E	23/07/2017	23:20	1.3	ENE	24/07/2017	06:30	1.3	NNW
23/07/2017	16:15	2.7	ENE	23/07/2017	23:25	0.4	NNE	24/07/2017	06:35	1.3	NE
23/07/2017	16:20	1.8	E	23/07/2017	23:30	0.4	N	24/07/2017	06:40	2.2	NE
23/07/2017	16:25	0.4	ESE	23/07/2017	23:35	0.4	ESE	24/07/2017	06:45	1.3	NE
23/07/2017	16:30	0.4	ESE	23/07/2017	23:40	2.2	ENE	24/07/2017	06:50	2.2	E
23/07/2017	16:35	2.2	ENE	23/07/2017	23:45	0.9	ESE	24/07/2017	06:55	1.8	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
24/07/2017	07:00	1.3	NE	24/07/2017	14:10	1.3	NE	24/07/2017	21:20	3.6	NE
24/07/2017	07:05	1.3	NNE	24/07/2017	14:15	0.4	W	24/07/2017	21:25	0.4	NNE
24/07/2017	07:10	3.6	NNE	24/07/2017	14:20	2.7	WNW	24/07/2017	21:30	2.2	NE
24/07/2017	07:15	1.8	NNE	24/07/2017	14:25	4	W	24/07/2017	21:35	2.7	ENE
24/07/2017	07:20	2.7	W	24/07/2017	14:30	3.1	W	24/07/2017	21:40	3.6	NE
24/07/2017	07:25	3.6	NE	24/07/2017	14:35	1.3	WNW	24/07/2017	21:45	0.9	NE
24/07/2017	07:30	2.7	NE	24/07/2017	14:40	1.8	NNE	24/07/2017	21:50	2.2	E
24/07/2017	07:35	2.7	WNW	24/07/2017	14:45	3.6	WSW	24/07/2017	21:55	4.9	ENE
24/07/2017	07:40	1.3	NNW	24/07/2017	14:50	0.9	NNE	24/07/2017	22:00	1.3	NE
24/07/2017	07:45	0.9	NE	24/07/2017	14:55	1.3	NNE	24/07/2017	22:05	4.5	NNE
24/07/2017	07:50	2.2	WNW	24/07/2017	15:00	1.8	WNW	24/07/2017	22:10	0.9	E
24/07/2017	07:55	1.3	N	24/07/2017	15:05	2.7	WNW	24/07/2017	22:15	0.9	N
24/07/2017	08:00	3.6	NE	24/07/2017	15:10	1.3	W	24/07/2017	22:20	1.3	N
24/07/2017	08:05	2.2	E	24/07/2017	15:15	1.3	NE	24/07/2017	22:25	1.8	WNW
24/07/2017	08:10	2.2	NE	24/07/2017	15:20	1.3	NE	24/07/2017	22:30	0.9	NNE
24/07/2017	08:15	2.2	W	24/07/2017	15:25	0.4	E	24/07/2017	22:35	2.7	W
24/07/2017	08:20	1.3	NNE	24/07/2017	15:30	1.3	NE	24/07/2017	22:40	2.7	W
24/07/2017	08:25	3.6	WNW	24/07/2017	15:35	2.2	NE	24/07/2017	22:45	2.2	NE
24/07/2017	08:30	0.9	N	24/07/2017	15:40	1.3	NNE	24/07/2017	22:50	3.6	W
24/07/2017	08:35	1.8	NNE	24/07/2017	15:45	1.3	NE	24/07/2017	22:55	2.2	NE
24/07/2017	08:40	1.3	NNE	24/07/2017	15:50	0.9	NE	24/07/2017	23:00	1.8	NNW
24/07/2017	08:45	2.2	NE	24/07/2017	15:55	2.7	W	24/07/2017	23:05	1.8	NE
24/07/2017	08:50	3.6	W	24/07/2017	16:00	1.8	NNE	24/07/2017	23:10	2.2	NE
24/07/2017	08:55	3.1	NE	24/07/2017	16:05	3.1	NE	24/07/2017	23:15	0.4	NNW
24/07/2017	09:00	1.8	N	24/07/2017	16:10	2.7	E	24/07/2017	23:20	1.8	NNE
24/07/2017	09:05	3.1	NE	24/07/2017	16:15	1.8	W	24/07/2017	23:25	1.8	NNE
24/07/2017	09:10	4	WSW	24/07/2017	16:20	2.2	WSW	24/07/2017	23:30	0.9	NNW
24/07/2017	09:15	1.8	WNW	24/07/2017	16:25	0.9	NE	24/07/2017	23:35	2.2	E
24/07/2017	09:20	3.1	NE	24/07/2017	16:30	3.1	W	24/07/2017	23:40	0.4	ESE
24/07/2017	09:25	0.4	NNE	24/07/2017	16:35	1.8	ENE	24/07/2017	23:45	2.2	NE
24/07/2017	09:30	3.1	W	24/07/2017	16:40	2.2	NE	24/07/2017	23:50	4	ENE
24/07/2017	09:35	1.3	NNE	24/07/2017	16:45	0.9	NNW	24/07/2017	23:55	0.9	NE
24/07/2017	09:40	3.1	W	24/07/2017	16:50	1.3	NE	25/07/2017	00:00	1.3	ENE
24/07/2017	09:45	1.3	NNE	24/07/2017	16:55	4.9	ENE	7/25/2017	00:05	2.2	NE
24/07/2017	09:50	1.8	NNE	24/07/2017	17:00	2.7	NE	7/25/2017	00:10	1.8	E
24/07/2017	09:55	0.9	NE	24/07/2017	17:05	1.3	WNW	7/25/2017	00:15	2.2	E
24/07/2017	10:00	1.8	NNE	24/07/2017	17:10	2.2	NE	7/25/2017	00:20	2.2	E
24/07/2017	10:05	1.3	NE	24/07/2017	17:15	1.3	NNE	7/25/2017	00:25	1.8	E
24/07/2017	10:10	0.9	NE	24/07/2017	17:20	1.3	WSW	7/25/2017	00:30	2.2	E
24/07/2017	10:15	2.2	W	24/07/2017	17:25	1.3	WNW	7/25/2017	00:35	3.1	ENE
24/07/2017	10:20	1.8	NE	24/07/2017	17:30	2.7	WNW	7/25/2017	00:40	5.8	ENE
24/07/2017	10:25	1.3	NNE	24/07/2017	17:35	2.2	NE	7/25/2017	00:45	1.8	E
24/07/2017	10:30	0.4	NNW	24/07/2017	17:40	0.9	W	7/25/2017	00:50	3.6	E
24/07/2017	10:35	1.8	NE	24/07/2017	17:45	1.8	W	7/25/2017	00:55	2.2	E
24/07/2017	10:40	1.3	NE	24/07/2017	17:50	1.8	NNE	7/25/2017	01:00	2.2	ENE
24/07/2017	10:45	1.3	N	24/07/2017	17:55	4	NE	7/25/2017	01:05	6.3	E
24/07/2017	10:50	2.2	NE	24/07/2017	18:00	1.3	ENE	7/25/2017	01:10	3.1	ENE
24/07/2017	10:55	0.9	N	24/07/2017	18:05	2.2	W	7/25/2017	01:15	2.7	E
24/07/2017	11:00	1.3	WNW	24/07/2017	18:10	3.6	E	7/25/2017	01:20	2.7	E
24/07/2017	11:05	2.2	E	24/07/2017	18:15	1.3	NE	7/25/2017	01:25	2.2	ENE
24/07/2017	11:10	1.3	NE	24/07/2017	18:20	3.6	W	7/25/2017	01:30	3.1	E
24/07/2017	11:15	1.8	W	24/07/2017	18:25	2.2	E	7/25/2017	01:35	5.8	E
24/07/2017	11:20	0.9	ENE	24/07/2017	18:30	2.2	E	7/25/2017	01:40	4.5	ENE
24/07/2017	11:25	1.3	NNE	24/07/2017	18:35	3.6	NNE	7/25/2017	01:45	2.2	E
24/07/2017	11:30	2.2	WNW	24/07/2017	18:40	1.3	N	7/25/2017	01:50	3.6	E
24/07/2017	11:35	2.2	NE	24/07/2017	18:45	0.9	NNE	7/25/2017	01:55	1.3	E
24/07/2017	11:40	3.6	W	24/07/2017	18:50	0.9	NE	7/25/2017	02:00	5.4	ENE
24/07/2017	11:45	1.3	NNE	24/07/2017	18:55	2.7	E	7/25/2017	02:05	2.2	NE
24/07/2017	11:50	2.2	NE	24/07/2017	19:00	2.2	NE	7/25/2017	02:10	4.9	ENE
24/07/2017	11:55	1.3	ENE	24/07/2017	19:05	0.9	NNE	7/25/2017	02:15	4.9	ENE
24/07/2017	12:00	0.4	W	24/07/2017	19:10	4	W	7/25/2017	02:20	4.5	ENE
24/07/2017	12:05	1.8	ENE	24/07/2017	19:15	1.8	NNE	7/25/2017	02:25	2.7	ENE
24/07/2017	12:10	1.3	ENE	24/07/2017	19:20	1.8	ENE	7/25/2017	02:30	3.6	ENE
24/07/2017	12:15	4.5	ENE	24/07/2017	19:25	1.8	NNE	7/25/2017	02:35	3.6	ENE
24/07/2017	12:20	0.9	WNW	24/07/2017	19:30	0.9	N	7/25/2017	02:40	4	E
24/07/2017	12:25	2.2	NE	24/07/2017	19:35	2.2	NNE	7/25/2017	02:45	6.3	E
24/07/2017	12:30	2.7	WNW	24/07/2017	19:40	2.7	ENE	7/25/2017	02:50	6.3	E
24/07/2017	12:35	4	NE	24/07/2017	19:45	2.2	E	7/25/2017	02:55	5.8	ENE
24/07/2017	12:40	1.3	W	24/07/2017	19:50	1.3	W	7/25/2017	03:00	5.4	ENE
24/07/2017	12:45	1.8	W	24/07/2017	19:55	4.5	NNE	7/25/2017	03:05	3.1	E
24/07/2017	12:50	2.2	E	24/07/2017	20:00	1.3	NW	7/25/2017	03:10	3.1	E
24/07/2017	12:55	1.3	NNW	24/07/2017	20:05	3.6	W	7/25/2017	03:15	1.8	NE
24/07/2017	13:00	0.9	N	24/07/2017	20:10	1.8	NW	7/25/2017	03:20	5.8	E
24/07/2017	13:05	1.8	W	24/07/2017	20:15	4	NE	7/25/2017	03:25	3.6	ENE
24/07/2017	13:10	1.3	NE	24/07/2017	20:20	4	NE	7/25/2017	03:30	4.5	E
24/07/2017	13:15	1.8	NNE	24/07/2017	20:25	3.1	NE	7/25/2017	03:35	1.8	E
24/07/2017	13:20	4.5	ENE	24/07/2017	20:30	1.8	W	7/25/2017	03:40	4.5	E
24/07/2017	13:25	2.2	NE	24/07/2017	20:35	1.3	ENE	7/25/2017	03:45	2.2	E
24/07/2017	13:30	1.3	W	24/07/2017	20:40	1.3	NNE	7/25/2017	03:50	1.8	ENE
24/07/2017	13:35	1.3	WNW	24/07/2017	20:45	2.2	NE	7/25/2017	03:55	5.8	ENE
24/07/2017	13:40	3.6	NE	24/07/2017	20:50	1.3	N	7/25/2017	04:00	3.6	ENE
24/07/2017	13:45	1.8	W	24/07/2017	20:55	1.3	NNE	7/25/2017	04:05	4.9	ENE
24/07/2017	13:50	1.8	WNW	24/07/2017	21:00	4	ENE	7/25/2017	04:10	2.2	E
24/07/2017	13:55	1.3	ENE	24/07/2017	21:05	2.2	E	7/25/2017	04:15	3.1	E
24/07/2017	14:00	1.8	NE	24/07/2017	21:10	1.3	NNE	7/25/2017	04:20	2.7	E
24/07/2017	14:05	1.8	WNW	24/07/2017	21:15	0.9	NNE	7/25/2017	04:25	4	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
7/25/2017	04:30	3.6	NE	7/25/2017	11:40	3.1	ENE	7/25/2017	18:50	1.8	E
7/25/2017	04:35	1.8	NE	7/25/2017	11:45	4	NE	7/25/2017	18:55	4	E
7/25/2017	04:40	4	ENE	7/25/2017	11:50	2.2	ENE	7/25/2017	19:00	4	E
7/25/2017	04:45	5.8	E	7/25/2017	11:55	4.5	E	7/25/2017	19:05	3.1	ENE
7/25/2017	04:50	1.3	E	7/25/2017	12:00	4.9	E	7/25/2017	19:10	1.8	ENE
7/25/2017	04:55	5.8	ENE	7/25/2017	12:05	2.2	E	7/25/2017	19:15	2.7	ENE
7/25/2017	05:00	0.4	E	7/25/2017	12:10	3.6	ENE	7/25/2017	19:20	4	ENE
7/25/2017	05:05	3.1	E	7/25/2017	12:15	1.8	NE	7/25/2017	19:25	4.9	E
7/25/2017	05:10	6.7	ENE	7/25/2017	12:20	5.4	E	7/25/2017	19:30	1.8	E
7/25/2017	05:15	2.2	E	7/25/2017	12:25	6.3	ENE	7/25/2017	19:35	2.7	E
7/25/2017	05:20	4.9	ENE	7/25/2017	12:30	6.7	E	7/25/2017	19:40	3.1	ENE
7/25/2017	05:25	5.8	ENE	7/25/2017	12:35	3.6	E	7/25/2017	19:45	4.5	ENE
7/25/2017	05:30	4.9	ENE	7/25/2017	12:40	3.6	NE	7/25/2017	19:50	6.3	E
7/25/2017	05:35	5.4	ENE	7/25/2017	12:45	1.8	E	7/25/2017	19:55	4.5	E
7/25/2017	05:40	2.7	ENE	7/25/2017	12:50	2.2	E	7/25/2017	20:00	2.7	ESE
7/25/2017	05:45	5.8	ENE	7/25/2017	12:55	1.8	E	7/25/2017	20:05	4.9	ENE
7/25/2017	05:50	3.1	E	7/25/2017	13:00	3.1	E	7/25/2017	20:10	3.6	E
7/25/2017	05:55	4.9	ENE	7/25/2017	13:05	2.7	E	7/25/2017	20:15	2.7	ENE
7/25/2017	06:00	3.1	ENE	7/25/2017	13:10	3.6	E	7/25/2017	20:20	4.9	NE
7/25/2017	06:05	6.7	ENE	7/25/2017	13:15	5.4	E	7/25/2017	20:25	5.4	E
7/25/2017	06:10	3.1	E	7/25/2017	13:20	2.2	ENE	7/25/2017	20:30	5.8	E
7/25/2017	06:15	4	E	7/25/2017	13:25	6.3	E	7/25/2017	20:35	1.8	E
7/25/2017	06:20	2.7	E	7/25/2017	13:30	2.2	E	7/25/2017	20:40	6.3	E
7/25/2017	06:25	2.7	ENE	7/25/2017	13:35	1.8	E	7/25/2017	20:45	4.9	NE
7/25/2017	06:30	4.9	E	7/25/2017	13:40	5.8	E	7/25/2017	20:50	1.8	E
7/25/2017	06:35	6.3	ENE	7/25/2017	13:45	4.9	E	7/25/2017	20:55	4.9	E
7/25/2017	06:40	2.2	E	7/25/2017	13:50	1.3	E	7/25/2017	21:00	2.7	E
7/25/2017	06:45	1.3	ENE	7/25/2017	13:55	2.7	E	7/25/2017	21:05	1.3	NE
7/25/2017	06:50	2.7	ENE	7/25/2017	14:00	5.4	E	7/25/2017	21:10	4.9	ENE
7/25/2017	06:55	6.3	E	7/25/2017	14:05	4.9	ENE	7/25/2017	21:15	3.1	ENE
7/25/2017	07:00	4	ENE	7/25/2017	14:10	4.9	ENE	7/25/2017	21:20	2.7	E
7/25/2017	07:05	4	ENE	7/25/2017	14:15	3.6	E	7/25/2017	21:25	2.2	ENE
7/25/2017	07:10	4.9	ENE	7/25/2017	14:20	5.8	E	7/25/2017	21:30	5.4	ENE
7/25/2017	07:15	4.9	E	7/25/2017	14:25	5.8	ENE	7/25/2017	21:35	4.9	E
7/25/2017	07:20	6.3	E	7/25/2017	14:30	1.8	NE	7/25/2017	21:40	5.4	E
7/25/2017	07:25	4.5	E	7/25/2017	14:35	5.8	E	7/25/2017	21:45	2.7	E
7/25/2017	07:30	5.4	ENE	7/25/2017	14:40	2.2	E	7/25/2017	21:50	5.8	E
7/25/2017	07:35	1.8	E	7/25/2017	14:45	5.4	E	7/25/2017	21:55	5.8	E
7/25/2017	07:40	4	E	7/25/2017	14:50	2.2	NE	7/25/2017	22:00	5.4	ENE
7/25/2017	07:45	0.4	E	7/25/2017	14:55	1.8	ENE	7/25/2017	22:05	4.5	E
7/25/2017	07:50	4.9	E	7/25/2017	15:00	3.6	E	7/25/2017	22:10	4	ENE
7/25/2017	07:55	6.3	E	7/25/2017	15:05	4.5	E	7/25/2017	22:15	2.2	E
7/25/2017	08:00	2.2	ENE	7/25/2017	15:10	2.7	ENE	7/25/2017	22:20	2.7	E
7/25/2017	08:05	4.5	E	7/25/2017	15:15	7.2	NE	7/25/2017	22:25	5.8	E
7/25/2017	08:10	5.8	ENE	7/25/2017	15:20	5.4	ENE	7/25/2017	22:30	5.4	ENE
7/25/2017	08:15	5.8	E	7/25/2017	15:25	2.7	E	7/25/2017	22:35	4.5	ENE
7/25/2017	08:20	2.7	ENE	7/25/2017	15:30	4	ENE	7/25/2017	22:40	1.8	ENE
7/25/2017	08:25	4.9	ENE	7/25/2017	15:35	4.5	E	7/25/2017	22:45	5.8	ENE
7/25/2017	08:30	2.7	E	7/25/2017	15:40	6.7	ENE	7/25/2017	22:50	5.4	E
7/25/2017	08:35	5.4	ENE	7/25/2017	15:45	1.8	ENE	7/25/2017	22:55	3.6	ENE
7/25/2017	08:40	1.3	ENE	7/25/2017	15:50	5.4	NE	7/25/2017	23:00	4.9	E
7/25/2017	08:45	2.7	E	7/25/2017	15:55	5.4	ENE	7/25/2017	23:05	5.8	ENE
7/25/2017	08:50	3.1	ENE	7/25/2017	16:00	5.4	E	7/25/2017	23:10	4	E
7/25/2017	08:55	2.2	E	7/25/2017	16:05	6.7	E	7/25/2017	23:15	1.3	NNE
7/25/2017	09:00	2.2	ENE	7/25/2017	16:10	2.2	ENE	7/25/2017	23:20	6.7	E
7/25/2017	09:05	2.7	ENE	7/25/2017	16:15	4.9	ENE	7/25/2017	23:25	5.8	ENE
7/25/2017	09:10	2.2	NE	7/25/2017	16:20	6.3	E	7/25/2017	23:30	5.4	ENE
7/25/2017	09:15	1.8	ENE	7/25/2017	16:25	3.1	ENE	7/25/2017	23:35	4.9	ENE
7/25/2017	09:20	4	ENE	7/25/2017	16:30	4.5	ENE	7/25/2017	23:40	2.7	E
7/25/2017	09:25	7.2	NE	7/25/2017	16:35	2.2	ENE	7/25/2017	23:45	4	E
7/25/2017	09:30	3.6	E	7/25/2017	16:40	1.8	E	7/25/2017	23:50	2.2	E
7/25/2017	09:35	6.3	E	7/25/2017	16:45	4.9	ENE	7/25/2017	23:55	3.1	E
7/25/2017	09:40	5.8	E	7/25/2017	16:50	6.7	E	7/26/2017	00:00	5.8	ENE
7/25/2017	09:45	2.2	E	7/25/2017	16:55	1.8	E	26/07/2017	00:05	2.7	WNW
7/25/2017	09:50	3.1	E	7/25/2017	17:00	1.8	ENE	26/07/2017	00:10	3.6	WNW
7/25/2017	09:55	4.5	E	7/25/2017	17:05	4	E	26/07/2017	00:15	0.4	ESE
7/25/2017	10:00	1.3	ENE	7/25/2017	17:10	4.5	E	26/07/2017	00:20	3.1	WNW
7/25/2017	10:05	6.7	ENE	7/25/2017	17:15	4	ENE	26/07/2017	00:25	4	W
7/25/2017	10:10	3.1	E	7/25/2017	17:20	4.5	E	26/07/2017	00:30	1.3	NE
7/25/2017	10:15	5.4	ENE	7/25/2017	17:25	5.4	ENE	26/07/2017	00:35	1.3	NE
7/25/2017	10:20	4	E	7/25/2017	17:30	4.5	ENE	26/07/2017	00:40	3.6	WNW
7/25/2017	10:25	3.1	E	7/25/2017	17:35	3.1	ENE	26/07/2017	00:45	3.6	WNW
7/25/2017	10:30	2.2	E	7/25/2017	17:40	1.8	E	26/07/2017	00:50	4	NW
7/25/2017	10:35	2.7	NE	7/25/2017	17:45	2.2	ENE	26/07/2017	00:55	0.9	N
7/25/2017	10:40	4.9	E	7/25/2017	17:50	3.1	NE	26/07/2017	01:00	0.9	WSW
7/25/2017	10:45	4.9	ENE	7/25/2017	17:55	4.9	E	26/07/2017	01:05	3.6	WNW
7/25/2017	10:50	5.4	ENE	7/25/2017	18:00	2.7	NE	26/07/2017	01:10	0.9	W
7/25/2017	10:55	1.8	ENE	7/25/2017	18:05	1.3	NE	26/07/2017	01:15	1.3	WNW
7/25/2017	11:00	0.9	ESE	7/25/2017	18:10	4	E	26/07/2017	01:20	0.4	ESE
7/25/2017	11:05	5.4	ENE	7/25/2017	18:15	4.9	ENE	26/07/2017	01:25	2.7	WNW
7/25/2017	11:10	4.9	E	7/25/2017	18:20	2.2	ENE	26/07/2017	01:30	3.1	WNW
7/25/2017	11:15	5.4	E	7/25/2017	18:25	3.1	ENE	26/07/2017	01:35	0.4	ESE
7/25/2017	11:20	5.8	ENE	7/25/2017	18:30	4.5	ENE	26/07/2017	01:40	3.1	W
7/25/2017	11:25	5.8	E	7/25/2017	18:35	1.8	NE	26/07/2017	01:45	2.7	W
7/25/2017	11:30	2.7	ENE	7/25/2017	18:40	2.7	ENE	26/07/2017	01:50	3.1	WNW
7/25/2017	11:35	4.9	E	7/25/2017	18:45	3.6	E	26/07/2017	01:55	4	WNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
26/07/2017	02:00	2.2	NNW	26/07/2017	09:10	0.9	W	26/07/2017	16:20	2.7	W
26/07/2017	02:05	1.3	NNW	26/07/2017	09:15	3.1	W	26/07/2017	16:25	2.7	W
26/07/2017	02:10	1.3	ENE	26/07/2017	09:20	1.3	NE	26/07/2017	16:30	0.9	NE
26/07/2017	02:15	3.6	W	26/07/2017	09:25	0.4	NW	26/07/2017	16:35	2.7	W
26/07/2017	02:20	0.9	W	26/07/2017	09:30	0.4	NE	26/07/2017	16:40	1.3	NW
26/07/2017	02:25	0.9	SSW	26/07/2017	09:35	1.3	WNW	26/07/2017	16:45	1.3	WSW
26/07/2017	02:30	3.6	W	26/07/2017	09:40	1.3	WSW	26/07/2017	16:50	1.8	N
26/07/2017	02:35	1.3	N	26/07/2017	09:45	3.6	NW	26/07/2017	16:55	2.7	SW
26/07/2017	02:40	3.1	W	26/07/2017	09:50	1.8	NW	26/07/2017	17:00	3.6	WNW
26/07/2017	02:45	2.7	W	26/07/2017	09:55	3.1	W	26/07/2017	17:05	0.4	SW
26/07/2017	02:50	1.3	E	26/07/2017	10:00	1.8	NNW	26/07/2017	17:10	1.8	N
26/07/2017	02:55	1.3	E	26/07/2017	10:05	0.9	WSW	26/07/2017	17:15	3.1	W
26/07/2017	03:00	0.9	WNW	26/07/2017	10:10	1.8	N	26/07/2017	17:20	2.7	WNW
26/07/2017	03:05	2.7	WNW	26/07/2017	10:15	3.1	W	26/07/2017	17:25	0.4	E
26/07/2017	03:10	1.8	NW	26/07/2017	10:20	0.4	SW	26/07/2017	17:30	3.6	WSW
26/07/2017	03:15	3.6	WNW	26/07/2017	10:25	3.1	W	26/07/2017	17:35	0.9	NE
26/07/2017	03:20	0.9	E	26/07/2017	10:30	0.4	NE	26/07/2017	17:40	0.4	NE
26/07/2017	03:25	0.9	NNW	26/07/2017	10:35	1.3	E	26/07/2017	17:45	2.7	WNW
26/07/2017	03:30	1.3	WNW	26/07/2017	10:40	0.9	ESE	26/07/2017	17:50	2.7	W
26/07/2017	03:35	0.4	N	26/07/2017	10:45	3.6	W	26/07/2017	17:55	3.6	WNW
26/07/2017	03:40	1.3	NE	26/07/2017	10:50	2.2	WNW	26/07/2017	18:00	0.9	NNW
26/07/2017	03:45	1.3	WSW	26/07/2017	10:55	3.1	W	26/07/2017	18:05	3.6	W
26/07/2017	03:50	2.7	WSW	26/07/2017	11:00	1.3	E	26/07/2017	18:10	3.6	W
26/07/2017	03:55	4	W	26/07/2017	11:05	1.3	W	26/07/2017	18:15	0.4	NNW
26/07/2017	04:00	4.9	WNW	26/07/2017	11:10	0.9	NE	26/07/2017	18:20	0.4	ESE
26/07/2017	04:05	3.1	W	26/07/2017	11:15	0.4	ESE	26/07/2017	18:25	0.4	NE
26/07/2017	04:10	0.9	NE	26/07/2017	11:20	3.1	WNW	26/07/2017	18:30	0.9	N
26/07/2017	04:15	1.8	WSW	26/07/2017	11:25	2.7	W	26/07/2017	18:35	2.2	N
26/07/2017	04:20	1.3	NNW	26/07/2017	11:30	3.6	W	26/07/2017	18:40	1.3	N
26/07/2017	04:25	0.9	ESE	26/07/2017	11:35	2.7	SW	26/07/2017	18:45	0.4	ESE
26/07/2017	04:30	3.1	W	26/07/2017	11:40	3.6	WNW	26/07/2017	18:50	3.6	WNW
26/07/2017	04:35	2.7	WNW	26/07/2017	11:45	3.1	W	26/07/2017	18:55	0.4	NW
26/07/2017	04:40	2.7	WNW	26/07/2017	11:50	2.7	W	26/07/2017	19:00	0.4	NE
26/07/2017	04:45	3.6	W	26/07/2017	11:55	3.1	WNW	26/07/2017	19:05	0.4	NNW
26/07/2017	04:50	0.4	ESE	26/07/2017	12:00	0.9	WSW	26/07/2017	19:10	0.4	ESE
26/07/2017	04:55	3.1	W	26/07/2017	12:05	0.9	WSW	26/07/2017	19:15	2.2	NNW
26/07/2017	05:00	1.3	E	26/07/2017	12:10	1.3	NE	26/07/2017	19:20	0.4	SSW
26/07/2017	05:05	0.9	NNW	26/07/2017	12:15	0.9	NNW	26/07/2017	19:25	0.9	SSW
26/07/2017	05:10	2.2	W	26/07/2017	12:20	3.1	W	26/07/2017	19:30	3.1	W
26/07/2017	05:15	3.6	W	26/07/2017	12:25	3.6	W	26/07/2017	19:35	0.9	E
26/07/2017	05:20	0.4	NE	26/07/2017	12:30	3.1	WNW	26/07/2017	19:40	0.4	ESE
26/07/2017	05:25	0.9	SW	26/07/2017	12:35	3.6	WNW	26/07/2017	19:45	0.9	ESE
26/07/2017	05:30	4	WNW	26/07/2017	12:40	3.6	WNW	26/07/2017	19:50	0.4	NNE
26/07/2017	05:35	2.2	W	26/07/2017	12:45	1.3	E	26/07/2017	19:55	1.8	E
26/07/2017	05:40	1.8	N	26/07/2017	12:50	3.6	WNW	26/07/2017	20:00	2.7	W
26/07/2017	05:45	0.9	ESE	26/07/2017	12:55	0.9	NW	26/07/2017	20:05	3.1	W
26/07/2017	05:50	0.4	NE	26/07/2017	13:00	0.9	NW	26/07/2017	20:10	1.8	N
26/07/2017	05:55	2.2	N	26/07/2017	13:05	2.2	W	26/07/2017	20:15	1.8	NE
26/07/2017	06:00	2.2	WNW	26/07/2017	13:10	0.9	NE	26/07/2017	20:20	0.9	NNW
26/07/2017	06:05	0.4	NNW	26/07/2017	13:15	2.7	W	26/07/2017	20:25	2.7	WSW
26/07/2017	06:10	0.4	ESE	26/07/2017	13:20	3.6	WNW	26/07/2017	20:30	0.4	NW
26/07/2017	06:15	3.6	WNW	26/07/2017	13:25	0.9	ENE	26/07/2017	20:35	0.4	ESE
26/07/2017	06:20	0.9	ESE	26/07/2017	13:30	2.2	NE	26/07/2017	20:40	3.1	WNW
26/07/2017	06:25	3.1	W	26/07/2017	13:35	0.4	NE	26/07/2017	20:45	3.1	W
26/07/2017	06:30	3.1	W	26/07/2017	13:40	1.3	WNW	26/07/2017	20:50	2.7	W
26/07/2017	06:35	0.4	NNW	26/07/2017	13:45	0.9	NE	26/07/2017	20:55	3.1	WNW
26/07/2017	06:40	0.4	NE	26/07/2017	13:50	3.6	W	26/07/2017	21:00	1.3	N
26/07/2017	06:45	3.1	WNW	26/07/2017	13:55	1.3	N	26/07/2017	21:05	4	W
26/07/2017	06:50	0.9	NNE	26/07/2017	14:00	1.3	NNE	26/07/2017	21:10	0.9	NE
26/07/2017	06:55	3.1	WNW	26/07/2017	14:05	3.6	WNW	26/07/2017	21:15	3.6	W
26/07/2017	07:00	2.7	W	26/07/2017	14:10	0.9	W	26/07/2017	21:20	1.8	W
26/07/2017	07:05	1.3	NE	26/07/2017	14:15	0.4	NW	26/07/2017	21:25	0.9	ESE
26/07/2017	07:10	3.1	WNW	26/07/2017	14:20	3.6	W	26/07/2017	21:30	3.1	W
26/07/2017	07:15	3.1	W	26/07/2017	14:25	1.3	WSW	26/07/2017	21:35	3.1	W
26/07/2017	07:20	1.3	WNW	26/07/2017	14:30	3.1	W	26/07/2017	21:40	0.9	ESE
26/07/2017	07:25	3.1	WNW	26/07/2017	14:35	1.3	N	26/07/2017	21:45	3.6	W
26/07/2017	07:30	0.4	NNW	26/07/2017	14:40	2.2	N	26/07/2017	21:50	0.4	SSW
26/07/2017	07:35	2.7	WNW	26/07/2017	14:45	1.3	NW	26/07/2017	21:55	0.9	WSW
26/07/2017	07:40	4	W	26/07/2017	14:50	3.1	W	26/07/2017	22:00	3.6	WNW
26/07/2017	07:45	0.4	SW	26/07/2017	14:55	1.3	NE	26/07/2017	22:05	3.6	W
26/07/2017	07:50	1.8	NW	26/07/2017	15:00	1.3	WSW	26/07/2017	22:10	0.4	NE
26/07/2017	07:55	2.7	WNW	26/07/2017	15:05	3.1	WNW	26/07/2017	22:15	2.2	NNW
26/07/2017	08:00	1.3	NE	26/07/2017	15:10	0.9	ESE	26/07/2017	22:20	0.4	WSW
26/07/2017	08:05	0.4	NW	26/07/2017	15:15	3.6	W	26/07/2017	22:25	0.9	WNW
26/07/2017	08:10	1.8	E	26/07/2017	15:20	1.3	NE	26/07/2017	22:30	0.9	SW
26/07/2017	08:15	1.8	NE	26/07/2017	15:25	2.7	W	26/07/2017	22:35	1.8	N
26/07/2017	08:20	3.1	WNW	26/07/2017	15:30	1.8	N	26/07/2017	22:40	1.3	WSW
26/07/2017	08:25	0.4	SW	26/07/2017	15:35	0.4	NE	26/07/2017	22:45	0.9	W
26/07/2017	08:30	1.3	N	26/07/2017	15:40	4	WNW	26/07/2017	22:50	1.3	E
26/07/2017	08:35	0.9	E	26/07/2017	15:45	1.8	N	26/07/2017	22:55	0.9	SW
26/07/2017	08:40	0.4	NE	26/07/2017	15:50	1.8	E	26/07/2017	23:00	1.8	NNW
26/07/2017	08:45	3.1	W	26/07/2017	15:55	2.7	W	26/07/2017	23:05	3.1	WNW
26/07/2017	08:50	0.9	NE	26/07/2017	16:00	2.2	W	26/07/2017	23:10	0.4	NNW
26/07/2017	08:55	4	NW	26/07/2017	16:05	0.9	NE	26/07/2017	23:15	0.9	NNW
26/07/2017	09:00	1.8	NE	26/07/2017	16:10	0.9	NNW	26/07/2017	23:20	0.9	NNW
26/07/2017	09:05	0.9	SSW	26/07/2017	16:15	0.9	NNW	26/07/2017	23:25	1.3	NNE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
26/07/2017	23:30	0.4	SW	7/27/2017	06:40	4	NE	7/27/2017	13:50	0.9	SSW
26/07/2017	23:35	0.4	NW	7/27/2017	06:45	0.4	SW	7/27/2017	13:55	2.2	W
26/07/2017	23:40	0.9	ESE	7/27/2017	06:50	1.3	NNE	7/27/2017	14:00	2.2	NE
26/07/2017	23:45	0.4	NW	7/27/2017	06:55	4	W	7/27/2017	14:05	0.9	SSW
26/07/2017	23:50	2.7	WNW	7/27/2017	07:00	1.8	NNE	7/27/2017	14:10	3.1	NE
26/07/2017	23:55	0.4	NW	7/27/2017	07:05	2.2	W	7/27/2017	14:15	3.1	NE
27/07/2017	00:00	0.4	ESE	7/27/2017	07:10	0.4	SW	7/27/2017	14:20	2.2	WSW
7/27/2017	00:05	3.1	NE	7/27/2017	07:15	0.4	WNW	7/27/2017	14:25	2.2	NE
7/27/2017	00:10	1.3	WNW	7/27/2017	07:20	1.8	NW	7/27/2017	14:30	0.9	NW
7/27/2017	00:15	2.2	NE	7/27/2017	07:25	0.4	WSW	7/27/2017	14:35	1.3	NNE
7/27/2017	00:20	3.6	NE	7/27/2017	07:30	2.2	N	7/27/2017	14:40	0.4	SSW
7/27/2017	00:25	1.3	N	7/27/2017	07:35	1.8	N	7/27/2017	14:45	2.7	N
7/27/2017	00:30	0.9	NW	7/27/2017	07:40	0.4	NE	7/27/2017	14:50	1.3	N
7/27/2017	00:35	1.3	SW	7/27/2017	07:45	1.3	NNE	7/27/2017	14:55	1.8	SW
7/27/2017	00:40	0.9	NNE	7/27/2017	07:50	0.4	WSW	7/27/2017	15:00	1.8	WSW
7/27/2017	00:45	2.2	NNE	7/27/2017	07:55	0.4	W	7/27/2017	15:05	1.3	N
7/27/2017	00:50	3.1	ENE	7/27/2017	08:00	1.3	NE	7/27/2017	15:10	2.2	NNE
7/27/2017	00:55	1.3	ENE	7/27/2017	08:05	0.4	SSW	7/27/2017	15:15	2.2	NE
7/27/2017	01:00	1.3	NNE	7/27/2017	08:10	1.3	N	7/27/2017	15:20	1.8	WSW
7/27/2017	01:05	0.9	E	7/27/2017	08:15	1.8	NE	7/27/2017	15:25	0.4	WNW
7/27/2017	01:10	0.9	ENE	7/27/2017	08:20	0.4	WNW	7/27/2017	15:30	0.4	WSW
7/27/2017	01:15	1.3	N	7/27/2017	08:25	2.2	NE	7/27/2017	15:35	3.1	ENE
7/27/2017	01:20	1.8	NNE	7/27/2017	08:30	0.4	W	7/27/2017	15:40	1.8	N
7/27/2017	01:25	0.9	W	7/27/2017	08:35	2.2	N	7/27/2017	15:45	1.8	NE
7/27/2017	01:30	1.3	NE	7/27/2017	08:40	2.2	WNW	7/27/2017	15:50	1.8	W
7/27/2017	01:35	2.7	ENE	7/27/2017	08:45	3.1	NE	7/27/2017	15:55	2.7	NNE
7/27/2017	01:40	0.9	W	7/27/2017	08:50	2.2	NNE	7/27/2017	16:00	4	WSW
7/27/2017	01:45	1.3	WNW	7/27/2017	08:55	0.4	W	7/27/2017	16:05	2.2	N
7/27/2017	01:50	0.4	SSW	7/27/2017	09:00	3.1	NE	7/27/2017	16:10	1.3	W
7/27/2017	01:55	0.4	NW	7/27/2017	09:05	0.9	N	7/27/2017	16:15	1.8	NE
7/27/2017	02:00	1.3	NNW	7/27/2017	09:10	2.2	NE	7/27/2017	16:20	1.8	NNE
7/27/2017	02:05	2.2	NE	7/27/2017	09:15	2.7	NE	7/27/2017	16:25	3.6	WSW
7/27/2017	02:10	0.9	E	7/27/2017	09:20	2.2	N	7/27/2017	16:30	3.6	NE
7/27/2017	02:15	0.4	NE	7/27/2017	09:25	0.9	SSW	7/27/2017	16:35	1.3	NE
7/27/2017	02:20	1.8	NNE	7/27/2017	09:30	1.3	NW	7/27/2017	16:40	1.3	WNW
7/27/2017	02:25	0.9	NW	7/27/2017	09:35	2.2	WSW	7/27/2017	16:45	2.2	NNE
7/27/2017	02:30	1.8	ENE	7/27/2017	09:40	2.7	WSW	7/27/2017	16:50	0.4	WNW
7/27/2017	02:35	2.7	ENE	7/27/2017	09:45	2.2	NNE	7/27/2017	16:55	0.9	NNW
7/27/2017	02:40	0.4	N	7/27/2017	09:50	3.1	NE	7/27/2017	17:00	1.3	NE
7/27/2017	02:45	1.3	E	7/27/2017	09:55	1.3	N	7/27/2017	17:05	2.2	NE
7/27/2017	02:50	1.3	N	7/27/2017	10:00	1.8	SW	7/27/2017	17:10	2.7	NE
7/27/2017	02:55	2.7	NE	7/27/2017	10:05	2.2	ENE	7/27/2017	17:15	4	W
7/27/2017	03:00	0.4	NE	7/27/2017	10:10	0.4	SSW	7/27/2017	17:20	0.4	SW
7/27/2017	03:05	2.2	NNE	7/27/2017	10:15	3.6	NE	7/27/2017	17:25	2.2	W
7/27/2017	03:10	4	WNW	7/27/2017	10:20	2.7	NE	7/27/2017	17:30	1.8	W
7/27/2017	03:15	2.7	NE	7/27/2017	10:25	0.4	NE	7/27/2017	17:35	2.7	NE
7/27/2017	03:20	1.8	E	7/27/2017	10:30	0.9	SSW	7/27/2017	17:40	2.2	NNE
7/27/2017	03:25	1.8	NE	7/27/2017	10:35	4	W	7/27/2017	17:45	1.3	WSW
7/27/2017	03:30	0.4	W	7/27/2017	10:40	0.9	NNW	7/27/2017	17:50	1.8	NNE
7/27/2017	03:35	1.3	WNW	7/27/2017	10:45	1.3	N	7/27/2017	17:55	2.2	N
7/27/2017	03:40	2.2	NE	7/27/2017	10:50	3.6	NE	7/27/2017	18:00	1.8	N
7/27/2017	03:45	0.9	SW	7/27/2017	10:55	2.7	ENE	7/27/2017	18:05	4	W
7/27/2017	03:50	2.2	NNE	7/27/2017	11:00	0.4	NE	7/27/2017	18:10	0.4	SSW
7/27/2017	03:55	2.7	NE	7/27/2017	11:05	0.4	SW	7/27/2017	18:15	3.6	NE
7/27/2017	04:00	0.9	SSW	7/27/2017	11:10	1.8	WSW	7/27/2017	18:20	1.3	WSW
7/27/2017	04:05	1.8	W	7/27/2017	11:15	2.7	E	7/27/2017	18:25	0.9	NNE
7/27/2017	04:10	4	WSW	7/27/2017	11:20	0.4	W	7/27/2017	18:30	1.8	NNE
7/27/2017	04:15	1.8	NW	7/27/2017	11:25	4	W	7/27/2017	18:35	1.8	W
7/27/2017	04:20	2.2	WNW	7/27/2017	11:30	1.3	NW	7/27/2017	18:40	0.4	W
7/27/2017	04:25	1.3	W	7/27/2017	11:35	3.1	ENE	7/27/2017	18:45	0.4	NW
7/27/2017	04:30	1.3	E	7/27/2017	11:40	1.8	WSW	7/27/2017	18:50	0.4	E
7/27/2017	04:35	1.8	NE	7/27/2017	11:45	0.9	NNE	7/27/2017	18:55	0.4	NE
7/27/2017	04:40	0.4	WNW	7/27/2017	11:50	0.4	W	7/27/2017	19:00	2.7	ENE
7/27/2017	04:45	2.2	N	7/27/2017	11:55	3.1	W	7/27/2017	19:05	2.7	NE
7/27/2017	04:50	2.2	WSW	7/27/2017	12:00	1.3	NE	7/27/2017	19:10	1.3	NW
7/27/2017	04:55	1.8	WNW	7/27/2017	12:05	0.9	NE	7/27/2017	19:15	1.3	SW
7/27/2017	05:00	2.2	NE	7/27/2017	12:10	0.4	SSW	7/27/2017	19:20	3.6	NE
7/27/2017	05:05	1.3	WSW	7/27/2017	12:15	1.8	N	7/27/2017	19:25	2.2	NNE
7/27/2017	05:10	3.6	WSW	7/27/2017	12:20	0.4	NNW	7/27/2017	19:30	1.8	W
7/27/2017	05:15	0.4	W	7/27/2017	12:25	0.9	NNW	7/27/2017	19:35	0.4	NNW
7/27/2017	05:20	1.8	NE	7/27/2017	12:30	1.3	NNE	7/27/2017	19:40	2.2	W
7/27/2017	05:25	3.1	NE	7/27/2017	12:35	0.9	NE	7/27/2017	19:45	1.3	NNE
7/27/2017	05:30	3.1	NE	7/27/2017	12:40	1.3	WNW	7/27/2017	19:50	1.3	N
7/27/2017	05:35	3.1	NE	7/27/2017	12:45	3.6	NE	7/27/2017	19:55	0.4	NE
7/27/2017	05:40	1.8	WSW	7/27/2017	12:50	1.3	NNE	7/27/2017	20:00	0.4	W
7/27/2017	05:45	1.8	SW	7/27/2017	12:55	2.7	WNW	7/27/2017	20:05	0.4	SW
7/27/2017	05:50	3.6	WSW	7/27/2017	13:00	0.4	W	7/27/2017	20:10	3.1	ENE
7/27/2017	05:55	2.7	ENE	7/27/2017	13:05	1.3	NE	7/27/2017	20:15	4	W
7/27/2017	06:00	0.4	W	7/27/2017	13:10	0.9	NNW	7/27/2017	20:20	0.9	WSW
7/27/2017	06:05	1.8	N	7/27/2017	13:15	4	WSW	7/27/2017	20:25	2.7	NE
7/27/2017	06:10	3.1	NE	7/27/2017	13:20	0.4	NE	7/27/2017	20:30	2.2	NNE
7/27/2017	06:15	1.3	W	7/27/2017	13:25	2.2	NE	7/27/2017	20:35	3.6	NE
7/27/2017	06:20	1.3	NW	7/27/2017	13:30	1.8	NNE	7/27/2017	20:40	2.2	NE
7/27/2017	06:25	0.4	WSW	7/27/2017	13:35	1.8	WNW	7/27/2017	20:45	1.3	NNE
7/27/2017	06:30	0.4	SW	7/27/2017	13:40	0.9	NE	7/27/2017	20:50	0.4	WNW
7/27/2017	06:35	1.8	WSW	7/27/2017	13:45	1.3	WSW	7/27/2017	20:55	1.8	N

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
7/27/2017	21:00	1.3	WNW	7/28/2017	04:10	1.8	NE	7/28/2017	11:20	1.8	NE
7/27/2017	21:05	2.7	W	7/28/2017	04:15	1.8	WNW	7/28/2017	11:25	2.2	WNW
7/27/2017	21:10	3.6	NE	7/28/2017	04:20	1.3	E	7/28/2017	11:30	4	NE
7/27/2017	21:15	1.3	SW	7/28/2017	04:25	0.9	NNE	7/28/2017	11:35	2.2	W
7/27/2017	21:20	0.4	SSW	7/28/2017	04:30	1.8	WNW	7/28/2017	11:40	0.4	SSW
7/27/2017	21:25	3.1	NE	7/28/2017	04:35	0.9	SW	7/28/2017	11:45	1.8	ENE
7/27/2017	21:30	2.2	NNE	7/28/2017	04:40	2.2	NE	7/28/2017	11:50	1.8	NNE
7/27/2017	21:35	1.8	WNW	7/28/2017	04:45	0.9	NNE	7/28/2017	11:55	1.3	N
7/27/2017	21:40	3.6	WSW	7/28/2017	04:50	2.7	NE	7/28/2017	12:00	0.4	WSW
7/27/2017	21:45	0.9	NNE	7/28/2017	04:55	3.6	NE	7/28/2017	12:05	2.7	NE
7/27/2017	21:50	1.8	NE	7/28/2017	05:00	4	NE	7/28/2017	12:10	1.3	NE
7/27/2017	21:55	1.3	W	7/28/2017	05:05	1.8	ENE	7/28/2017	12:15	0.4	SW
7/27/2017	22:00	2.2	W	7/28/2017	05:10	2.2	WNW	7/28/2017	12:20	2.2	W
7/27/2017	22:05	0.9	W	7/28/2017	05:15	0.4	WSW	7/28/2017	12:25	2.2	W
7/27/2017	22:10	3.6	NE	7/28/2017	05:20	3.1	ENE	7/28/2017	12:30	0.9	NNE
7/27/2017	22:15	1.8	N	7/28/2017	05:25	0.9	NNE	7/28/2017	12:35	3.6	NE
7/27/2017	22:20	1.3	NW	7/28/2017	05:30	1.8	WNW	7/28/2017	12:40	1.3	SE
7/27/2017	22:25	2.2	W	7/28/2017	05:35	1.3	SE	7/28/2017	12:45	1.3	NNE
7/27/2017	22:30	0.4	E	7/28/2017	05:40	1.8	NNE	7/28/2017	12:50	3.1	W
7/27/2017	22:35	3.1	NE	7/28/2017	05:45	3.6	WNW	7/28/2017	12:55	3.6	NE
7/27/2017	22:40	2.2	WSW	7/28/2017	05:50	0.9	NNE	7/28/2017	13:00	0.9	SW
7/27/2017	22:45	3.6	WSW	7/28/2017	05:55	1.8	WNW	7/28/2017	13:05	0.4	ENE
7/27/2017	22:50	1.8	NNE	7/28/2017	06:00	2.2	NE	7/28/2017	13:10	2.7	WNW
7/27/2017	22:55	3.6	NE	7/28/2017	06:05	0.9	N	7/28/2017	13:15	1.8	W
7/27/2017	23:00	1.3	WNW	7/28/2017	06:10	2.7	NE	7/28/2017	13:20	1.3	NNE
7/27/2017	23:05	1.8	NNW	7/28/2017	06:15	0.4	SW	7/28/2017	13:25	3.6	NE
7/27/2017	23:10	3.1	W	7/28/2017	06:20	0.9	SW	7/28/2017	13:30	0.9	NW
7/27/2017	23:15	3.1	NE	7/28/2017	06:25	2.7	WNW	7/28/2017	13:35	2.2	WNW
7/27/2017	23:20	0.4	WNW	7/28/2017	06:30	0.4	WSW	7/28/2017	13:40	1.8	W
7/27/2017	23:25	0.4	WNW	7/28/2017	06:35	1.3	ENE	7/28/2017	13:45	3.6	NE
7/27/2017	23:30	0.9	W	7/28/2017	06:40	3.1	NE	7/28/2017	13:50	0.9	W
7/27/2017	23:35	3.1	NE	7/28/2017	06:45	0.4	SW	7/28/2017	13:55	2.7	NE
7/27/2017	23:40	1.8	ENE	7/28/2017	06:50	1.8	W	7/28/2017	14:00	0.9	W
7/27/2017	23:45	3.6	NE	7/28/2017	06:55	1.3	ENE	7/28/2017	14:05	0.4	N
7/27/2017	23:50	2.2	W	7/28/2017	07:00	2.7	WNW	7/28/2017	14:10	0.4	ESE
7/27/2017	23:55	1.3	NNE	7/28/2017	07:05	0.4	NNW	7/28/2017	14:15	0.4	NNW
7/28/2017	00:00	2.2	WSW	7/28/2017	07:10	1.3	WNW	7/28/2017	14:20	2.7	ENE
7/28/2017	00:05	0.4	SW	7/28/2017	07:15	3.1	WSW	7/28/2017	14:25	2.2	NNE
7/28/2017	00:10	0.4	SW	7/28/2017	07:20	0.4	SW	7/28/2017	14:30	3.1	W
7/28/2017	00:15	0.4	NNW	7/28/2017	07:25	3.1	NE	7/28/2017	14:35	2.2	NE
7/28/2017	00:20	3.6	W	7/28/2017	07:30	1.3	W	7/28/2017	14:40	2.7	NE
7/28/2017	00:25	0.4	SW	7/28/2017	07:35	1.3	NE	7/28/2017	14:45	0.4	WNW
7/28/2017	00:30	3.6	W	7/28/2017	07:40	3.6	ENE	7/28/2017	14:50	1.3	WSW
7/28/2017	00:35	0.9	ESE	7/28/2017	07:45	0.4	ENE	7/28/2017	14:55	3.6	WNW
7/28/2017	00:40	2.7	NE	7/28/2017	07:50	0.4	WSW	7/28/2017	15:00	0.4	SW
7/28/2017	00:45	0.4	WNW	7/28/2017	07:55	0.9	SW	7/28/2017	15:05	1.8	NNE
7/28/2017	00:50	1.8	NE	7/28/2017	08:00	0.9	N	7/28/2017	15:10	4	NE
7/28/2017	00:55	0.4	WSW	7/28/2017	08:05	0.9	NNE	7/28/2017	15:15	0.4	NE
7/28/2017	01:00	1.3	W	7/28/2017	08:10	1.3	W	7/28/2017	15:20	2.2	W
7/28/2017	01:05	2.7	WNW	7/28/2017	08:15	1.3	WNW	7/28/2017	15:25	0.9	NW
7/28/2017	01:10	3.1	W	7/28/2017	08:20	2.2	W	7/28/2017	15:30	2.2	WNW
7/28/2017	01:15	0.4	W	7/28/2017	08:25	0.4	W	7/28/2017	15:35	0.9	SW
7/28/2017	01:20	0.4	WNW	7/28/2017	08:30	3.1	ENE	7/28/2017	15:40	0.4	ESE
7/28/2017	01:25	0.9	N	7/28/2017	08:35	0.4	NNW	7/28/2017	15:45	1.8	NNE
7/28/2017	01:30	1.8	WNW	7/28/2017	08:40	1.8	NE	7/28/2017	15:50	1.8	WNW
7/28/2017	01:35	0.9	NW	7/28/2017	08:45	0.9	NNE	7/28/2017	15:55	1.8	W
7/28/2017	01:40	2.7	NE	7/28/2017	08:50	1.8	NW	7/28/2017	16:00	3.1	E
7/28/2017	01:45	2.2	NE	7/28/2017	08:55	0.9	SSW	7/28/2017	16:05	1.3	NE
7/28/2017	01:50	1.3	ENE	7/28/2017	09:00	1.3	W	7/28/2017	16:10	0.4	NW
7/28/2017	01:55	1.8	ENE	7/28/2017	09:05	1.3	NE	7/28/2017	16:15	1.3	NNE
7/28/2017	02:00	0.4	SSW	7/28/2017	09:10	0.4	WSW	7/28/2017	16:20	1.3	NE
7/28/2017	02:05	1.8	NE	7/28/2017	09:15	3.1	W	7/28/2017	16:25	0.4	ENE
7/28/2017	02:10	3.1	W	7/28/2017	09:20	3.6	NE	7/28/2017	16:30	0.9	WNW
7/28/2017	02:15	2.2	NE	7/28/2017	09:25	2.2	NE	7/28/2017	16:35	2.2	NE
7/28/2017	02:20	0.9	SSW	7/28/2017	09:30	1.3	N	7/28/2017	16:40	3.1	W
7/28/2017	02:25	1.8	NW	7/28/2017	09:35	3.6	NE	7/28/2017	16:45	0.9	SW
7/28/2017	02:30	0.9	SSW	7/28/2017	09:40	0.4	SW	7/28/2017	16:50	2.2	WNW
7/28/2017	02:35	1.8	N	7/28/2017	09:45	1.8	NE	7/28/2017	16:55	2.7	ENE
7/28/2017	02:40	3.1	W	7/28/2017	09:50	0.9	W	7/28/2017	17:00	0.4	SW
7/28/2017	02:45	1.3	W	7/28/2017	09:55	2.2	W	7/28/2017	17:05	0.9	N
7/28/2017	02:50	0.9	N	7/28/2017	10:00	2.2	WNW	7/28/2017	17:10	0.4	ENE
7/28/2017	02:55	0.4	W	7/28/2017	10:05	2.7	W	7/28/2017	17:15	3.6	NE
7/28/2017	03:00	3.6	NE	7/28/2017	10:10	3.6	NE	7/28/2017	17:20	1.3	W
7/28/2017	03:05	2.2	NE	7/28/2017	10:15	0.9	W	7/28/2017	17:25	0.4	E
7/28/2017	03:10	0.9	SW	7/28/2017	10:20	0.9	NE	7/28/2017	17:30	2.7	W
7/28/2017	03:15	2.2	ENE	7/28/2017	10:25	2.7	W	7/28/2017	17:35	2.7	NE
7/28/2017	03:20	2.7	NE	7/28/2017	10:30	1.8	NNE	7/28/2017	17:40	2.7	W
7/28/2017	03:25	1.8	NNE	7/28/2017	10:35	1.3	ENE	7/28/2017	17:45	1.3	NE
7/28/2017	03:30	2.7	WSW	7/28/2017	10:40	0.4	ENE	7/28/2017	17:50	0.4	WSW
7/28/2017	03:35	2.2	ENE	7/28/2017	10:45	1.8	WSW	7/28/2017	17:55	1.3	WNW
7/28/2017	03:40	1.8	NNE	7/28/2017	10:50	0.4	SSW	7/28/2017	18:00	2.7	WSW
7/28/2017	03:45	0.4	NW	7/28/2017	10:55	1.8	NE	7/28/2017	18:05	0.4	SW
7/28/2017	03:50	1.3	NE	7/28/2017	11:00	1.8	WNW	7/28/2017	18:10	2.2	WNW
7/28/2017	03:55	1.8	W	7/28/2017	11:05	1.8	ENE	7/28/2017	18:15	0.9	N
7/28/2017	04:00	1.8	NE	7/28/2017	11:10	0.4	ENE	7/28/2017	18:20	3.1	NE
7/28/2017	04:05	2.2	W	7/28/2017	11:15	1.3	NE	7/28/2017	18:25	2.7	WNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
7/28/2017	18:30	2.7	E	29/07/2017	01:40	0.9	N	29/07/2017	08:50	1.8	NE
7/28/2017	18:35	1.3	WSW	29/07/2017	01:45	1.3	NE	29/07/2017	08:55	1.3	N
7/28/2017	18:40	2.7	WSW	29/07/2017	01:50	2.2	W	29/07/2017	09:00	1.8	NE
7/28/2017	18:45	0.4	NE	29/07/2017	01:55	2.2	ENE	29/07/2017	09:05	3.6	NE
7/28/2017	18:50	0.4	WNW	29/07/2017	02:00	2.2	NE	29/07/2017	09:10	2.2	NNE
7/28/2017	18:55	0.4	E	29/07/2017	02:05	1.8	ENE	29/07/2017	09:15	1.3	W
7/28/2017	19:00	0.9	NNE	29/07/2017	02:10	0.9	E	29/07/2017	09:20	1.8	NE
7/28/2017	19:05	1.8	ENE	29/07/2017	02:15	1.3	NNE	29/07/2017	09:25	0.4	NNW
7/28/2017	19:10	3.6	NE	29/07/2017	02:20	0.4	WSW	29/07/2017	09:30	2.7	WSW
7/28/2017	19:15	1.8	NW	29/07/2017	02:25	0.4	NE	29/07/2017	09:35	1.3	NE
7/28/2017	19:20	1.8	W	29/07/2017	02:30	1.8	NNE	29/07/2017	09:40	0.4	NE
7/28/2017	19:25	2.7	NE	29/07/2017	02:35	0.4	NE	29/07/2017	09:45	0.9	E
7/28/2017	19:30	0.9	NNE	29/07/2017	02:40	2.2	NE	29/07/2017	09:50	1.8	NNE
7/28/2017	19:35	0.4	SW	29/07/2017	02:45	2.2	NE	29/07/2017	09:55	3.1	NE
7/28/2017	19:40	3.1	NE	29/07/2017	02:50	0.9	ENE	29/07/2017	10:00	1.8	ENE
7/28/2017	19:45	2.7	NE	29/07/2017	02:55	0.4	NE	29/07/2017	10:05	1.8	N
7/28/2017	19:50	1.3	NE	29/07/2017	03:00	1.8	NNE	29/07/2017	10:10	3.1	NE
7/28/2017	19:55	3.1	W	29/07/2017	03:05	0.9	NE	29/07/2017	10:15	0.4	NNE
7/28/2017	20:00	1.3	NE	29/07/2017	03:10	0.9	ENE	29/07/2017	10:20	3.6	NE
7/28/2017	20:05	2.7	NE	29/07/2017	03:15	2.2	NE	29/07/2017	10:25	1.3	W
7/28/2017	20:10	2.2	NE	29/07/2017	03:20	1.8	E	29/07/2017	10:30	2.7	WSW
7/28/2017	20:15	1.3	NE	29/07/2017	03:25	0.9	NW	29/07/2017	10:35	1.3	NE
7/28/2017	20:20	1.3	NE	29/07/2017	03:30	2.2	NNE	29/07/2017	10:40	0.4	SSW
7/28/2017	20:25	1.8	W	29/07/2017	03:35	2.7	WSW	29/07/2017	10:45	3.1	NE
7/28/2017	20:30	0.4	N	29/07/2017	03:40	2.2	NNE	29/07/2017	10:50	0.4	NNE
7/28/2017	20:35	3.6	NE	29/07/2017	03:45	1.8	NE	29/07/2017	10:55	4	NE
7/28/2017	20:40	2.7	ENE	29/07/2017	03:50	0.9	ESE	29/07/2017	11:00	1.8	ENE
7/28/2017	20:45	0.4	SSW	29/07/2017	03:55	1.8	ENE	29/07/2017	11:05	2.2	NE
7/28/2017	20:50	1.8	ESE	29/07/2017	04:00	1.3	WNW	29/07/2017	11:10	0.9	NE
7/28/2017	20:55	3.6	NE	29/07/2017	04:05	1.3	NNW	29/07/2017	11:15	0.4	ENE
7/28/2017	21:00	1.8	W	29/07/2017	04:10	1.3	E	29/07/2017	11:20	1.8	E
7/28/2017	21:05	0.4	N	29/07/2017	04:15	0.9	NE	29/07/2017	11:25	1.8	WSW
7/28/2017	21:10	1.8	ESE	29/07/2017	04:20	1.8	NE	29/07/2017	11:30	1.8	E
7/28/2017	21:15	3.1	ENE	29/07/2017	04:25	1.3	W	29/07/2017	11:35	0.4	SW
7/28/2017	21:20	0.4	WNW	29/07/2017	04:30	0.4	ESE	29/07/2017	11:40	3.1	WSW
7/28/2017	21:25	1.3	W	29/07/2017	04:35	2.7	ENE	29/07/2017	11:45	1.8	ENE
7/28/2017	21:30	1.8	WNW	29/07/2017	04:40	1.3	NNE	29/07/2017	11:50	0.9	ENE
7/28/2017	21:35	3.1	W	29/07/2017	04:45	1.8	E	29/07/2017	11:55	2.7	NE
7/28/2017	21:40	0.4	ENE	29/07/2017	04:50	1.8	ENE	29/07/2017	12:00	1.8	E
7/28/2017	21:45	2.7	NE	29/07/2017	04:55	1.8	E	29/07/2017	12:05	0.4	ENE
7/28/2017	21:50	0.4	E	29/07/2017	05:00	1.8	W	29/07/2017	12:10	1.8	ENE
7/28/2017	21:55	0.4	WSW	29/07/2017	05:05	3.1	NE	29/07/2017	12:15	2.7	ENE
7/28/2017	22:00	1.8	NE	29/07/2017	05:10	0.9	W	29/07/2017	12:20	1.3	NE
7/28/2017	22:05	1.8	W	29/07/2017	05:15	0.4	WSW	29/07/2017	12:25	0.9	ESE
7/28/2017	22:10	0.9	SW	29/07/2017	05:20	1.8	ENE	29/07/2017	12:30	0.4	E
7/28/2017	22:15	2.7	NE	29/07/2017	05:25	2.7	E	29/07/2017	12:35	2.2	W
7/28/2017	22:20	1.8	NW	29/07/2017	05:30	1.8	E	29/07/2017	12:40	0.4	SSW
7/28/2017	22:25	0.4	NNW	29/07/2017	05:35	1.3	NNE	29/07/2017	12:45	1.8	WSW
7/28/2017	22:30	0.9	NE	29/07/2017	05:40	1.3	NNW	29/07/2017	12:50	2.2	ENE
7/28/2017	22:35	1.3	WSW	29/07/2017	05:45	2.7	NE	29/07/2017	12:55	1.8	NE
7/28/2017	22:40	0.9	SW	29/07/2017	05:50	0.9	NE	29/07/2017	13:00	0.9	NE
7/28/2017	22:45	0.9	NNE	29/07/2017	05:55	0.9	ENE	29/07/2017	13:05	0.4	WSW
7/28/2017	22:50	1.8	NE	29/07/2017	06:00	1.3	ENE	29/07/2017	13:10	3.6	NE
7/28/2017	22:55	0.4	WSW	29/07/2017	06:05	1.3	NNW	29/07/2017	13:15	0.4	NW
7/28/2017	23:00	2.2	WNW	29/07/2017	06:10	0.9	E	29/07/2017	13:20	2.2	E
7/28/2017	23:05	3.1	ENE	29/07/2017	06:15	1.8	ENE	29/07/2017	13:25	2.2	ENE
7/28/2017	23:10	2.7	E	29/07/2017	06:20	0.9	NNE	29/07/2017	13:30	0.4	NE
7/28/2017	23:15	1.8	NE	29/07/2017	06:25	1.3	NE	29/07/2017	13:35	1.3	NE
7/28/2017	23:20	0.9	NE	29/07/2017	06:30	1.8	NE	29/07/2017	13:40	2.7	ENE
7/28/2017	23:25	1.8	NNE	29/07/2017	06:35	2.2	NNE	29/07/2017	13:45	2.2	ENE
7/28/2017	23:30	1.8	WNW	29/07/2017	06:40	0.4	NE	29/07/2017	13:50	1.8	NE
7/28/2017	23:35	0.4	NNW	29/07/2017	06:45	3.1	NE	29/07/2017	13:55	2.7	ENE
7/28/2017	23:40	1.3	NE	29/07/2017	06:50	0.9	NE	29/07/2017	14:00	3.6	E
7/28/2017	23:45	0.9	SSW	29/07/2017	06:55	0.9	N	29/07/2017	14:05	2.7	NE
7/28/2017	23:50	1.8	NNE	29/07/2017	07:00	1.3	NNE	29/07/2017	14:10	0.9	NE
7/28/2017	23:55	2.2	NE	29/07/2017	07:05	1.8	N	29/07/2017	14:15	0.9	NE
7/28/2017	00:00	2.7	WNW	29/07/2017	07:10	1.8	N	29/07/2017	14:20	2.7	E
29/07/2017	00:05	2.2	NE	29/07/2017	07:15	1.3	N	29/07/2017	14:25	2.2	NE
29/07/2017	00:10	0.4	NE	29/07/2017	07:20	0.9	NNE	29/07/2017	14:30	2.2	NE
29/07/2017	00:15	0.9	W	29/07/2017	07:25	0.9	NNW	29/07/2017	14:35	0.9	ENE
29/07/2017	00:20	2.2	E	29/07/2017	07:30	1.3	W	29/07/2017	14:40	3.6	NE
29/07/2017	00:25	1.8	N	29/07/2017	07:35	1.8	ENE	29/07/2017	14:45	0.4	WSW
29/07/2017	00:30	0.9	NE	29/07/2017	07:40	0.9	NW	29/07/2017	14:50	0.9	NE
29/07/2017	00:35	2.2	NE	29/07/2017	07:45	0.4	NE	29/07/2017	14:55	0.9	NE
29/07/2017	00:40	1.8	ENE	29/07/2017	07:50	0.4	NNE	29/07/2017	15:00	2.2	NE
29/07/2017	00:45	0.4	SSE	29/07/2017	07:55	1.3	ENE	29/07/2017	15:05	1.3	NE
29/07/2017	00:50	0.9	NNW	29/07/2017	08:00	0.4	ESE	29/07/2017	15:10	0.9	NE
29/07/2017	00:55	1.8	NE	29/07/2017	08:05	1.3	E	29/07/2017	15:15	1.3	W
29/07/2017	01:00	1.3	ENE	29/07/2017	08:10	0.9	NW	29/07/2017	15:20	1.3	W
29/07/2017	01:05	0.9	SSW	29/07/2017	08:15	0.4	NE	29/07/2017	15:25	1.8	E
29/07/2017	01:10	2.7	NE	29/07/2017	08:20	3.1	ENE	29/07/2017	15:30	2.2	W
29/07/2017	01:15	1.8	E	29/07/2017	08:25	1.8	NNE	29/07/2017	15:35	0.9	WSW
29/07/2017	01:20	2.7	NE	29/07/2017	08:30	1.8	NNE	29/07/2017	15:40	0.4	NNE
29/07/2017	01:25	2.2	E	29/07/2017	08:35	0.4	ENE	29/07/2017	15:45	0.9	SW
29/07/2017	01:30	3.6	NE	29/07/2017	08:40	0.9	W	29/07/2017	15:50	1.3	E
29/07/2017	01:35	1.8	NE	29/07/2017	08:45	1.3	ENE	29/07/2017	15:55	1.3	W

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
29/07/2017	16:00	1.8	ENE	29/07/2017	23:10	0.9	W	30/07/2017	06:20	2.2	E
29/07/2017	16:05	2.7	WSW	29/07/2017	23:15	1.8	NW	30/07/2017	06:25	1.3	WNW
29/07/2017	16:10	1.3	ENE	29/07/2017	23:20	3.6	NE	30/07/2017	06:30	2.7	NNE
29/07/2017	16:15	1.8	W	29/07/2017	23:25	3.1	ENE	30/07/2017	06:35	0.4	NNE
29/07/2017	16:20	0.9	ENE	29/07/2017	23:30	0.4	WSW	30/07/2017	06:40	0.4	NE
29/07/2017	16:25	0.4	NNE	29/07/2017	23:35	2.7	NE	30/07/2017	06:45	0.4	WSW
29/07/2017	16:30	0.4	NE	29/07/2017	23:40	2.2	NE	30/07/2017	06:50	1.3	WSW
29/07/2017	16:35	0.4	E	29/07/2017	23:45	2.2	E	30/07/2017	06:55	0.9	NE
29/07/2017	16:40	1.8	NE	29/07/2017	23:50	0.9	NNE	30/07/2017	07:00	0.9	ENE
29/07/2017	16:45	0.4	WSW	29/07/2017	23:55	1.3	WSW	30/07/2017	07:05	1.3	ENE
29/07/2017	16:50	3.6	NE	30/07/2017	00:00	0.4	NNW	30/07/2017	07:10	1.3	NE
29/07/2017	16:55	1.8	N	30/07/2017	00:05	0.9	NW	30/07/2017	07:15	2.2	NE
29/07/2017	17:00	0.9	NE	30/07/2017	00:10	0.4	WNW	30/07/2017	07:20	0.9	NNE
29/07/2017	17:05	1.8	NE	30/07/2017	00:15	2.2	ENE	30/07/2017	07:25	0.9	SSW
29/07/2017	17:10	1.3	NW	30/07/2017	00:20	0.9	ESE	30/07/2017	07:30	1.3	W
29/07/2017	17:15	0.4	WSW	30/07/2017	00:25	2.2	N	30/07/2017	07:35	0.9	W
29/07/2017	17:20	2.2	ENE	30/07/2017	00:30	0.9	W	30/07/2017	07:40	0.4	NNE
29/07/2017	17:25	0.4	S	30/07/2017	00:35	0.4	E	30/07/2017	07:45	0.9	E
29/07/2017	17:30	0.4	NE	30/07/2017	00:40	0.4	NW	30/07/2017	07:50	1.3	WSW
29/07/2017	17:35	2.7	NE	30/07/2017	00:45	0.9	W	30/07/2017	07:55	1.3	N
29/07/2017	17:40	0.9	NW	30/07/2017	00:50	2.2	ENE	30/07/2017	08:00	1.8	ENE
29/07/2017	17:45	1.3	NNE	30/07/2017	00:55	0.9	W	30/07/2017	08:05	2.2	NE
29/07/2017	17:50	1.3	N	30/07/2017	01:00	0.9	N	30/07/2017	08:10	0.9	SSW
29/07/2017	17:55	0.9	W	30/07/2017	01:05	1.3	ENE	30/07/2017	08:15	2.2	N
29/07/2017	18:00	0.9	NE	30/07/2017	01:10	1.3	NNW	30/07/2017	08:20	1.8	W
29/07/2017	18:05	2.2	NNE	30/07/2017	01:15	0.4	NNE	30/07/2017	08:25	2.2	ENE
29/07/2017	18:10	1.8	E	30/07/2017	01:20	1.3	N	30/07/2017	08:30	3.1	NNE
29/07/2017	18:15	1.8	NE	30/07/2017	01:25	0.4	SE	30/07/2017	08:35	2.2	E
29/07/2017	18:20	1.8	NE	30/07/2017	01:30	1.3	W	30/07/2017	08:40	0.4	SE
29/07/2017	18:25	3.6	NE	30/07/2017	01:35	1.3	WSW	30/07/2017	08:45	0.9	SSW
29/07/2017	18:30	0.9	NNW	30/07/2017	01:40	2.7	ENE	30/07/2017	08:50	0.9	SSW
29/07/2017	18:35	0.4	NNE	30/07/2017	01:45	2.7	ENE	30/07/2017	08:55	1.3	N
29/07/2017	18:40	0.4	WNW	30/07/2017	01:50	0.9	N	30/07/2017	09:00	1.3	N
29/07/2017	18:45	1.8	NNE	30/07/2017	01:55	2.2	E	30/07/2017	09:05	0.4	SSE
29/07/2017	18:50	0.4	WSW	30/07/2017	02:00	1.3	W	30/07/2017	09:10	0.9	NNW
29/07/2017	18:55	0.9	ESE	30/07/2017	02:05	0.9	WSW	30/07/2017	09:15	0.9	ENE
29/07/2017	19:00	1.8	NE	30/07/2017	02:10	2.2	ENE	30/07/2017	09:20	0.9	NW
29/07/2017	19:05	2.2	NE	30/07/2017	02:15	0.4	WSW	30/07/2017	09:25	1.8	NNW
29/07/2017	19:10	2.2	NE	30/07/2017	02:20	0.4	NE	30/07/2017	09:30	2.2	E
29/07/2017	19:15	2.7	WSW	30/07/2017	02:25	0.4	E	30/07/2017	09:35	2.2	ENE
29/07/2017	19:20	2.2	NE	30/07/2017	02:30	1.3	NNW	30/07/2017	09:40	2.2	NE
29/07/2017	19:25	0.9	NE	30/07/2017	02:35	3.1	N	30/07/2017	09:45	1.3	W
29/07/2017	19:30	1.3	E	30/07/2017	02:40	0.4	NNE	30/07/2017	09:50	1.8	WSW
29/07/2017	19:35	1.3	E	30/07/2017	02:45	1.8	SSE	30/07/2017	09:55	0.4	ENE
29/07/2017	19:40	3.1	NE	30/07/2017	02:50	2.7	ENE	30/07/2017	10:00	1.3	WSW
29/07/2017	19:45	2.2	W	30/07/2017	02:55	2.7	E	30/07/2017	10:05	1.3	WSW
29/07/2017	19:50	2.2	NNE	30/07/2017	03:00	2.7	WSW	30/07/2017	10:10	0.4	N
29/07/2017	19:55	1.3	N	30/07/2017	03:05	2.2	W	30/07/2017	10:15	1.3	N
29/07/2017	20:00	1.3	WNW	30/07/2017	03:10	1.3	ENE	30/07/2017	10:20	2.7	ENE
29/07/2017	20:05	2.7	E	30/07/2017	03:15	1.3	WSW	30/07/2017	10:25	1.8	SSE
29/07/2017	20:10	3.1	NE	30/07/2017	03:20	0.9	W	30/07/2017	10:30	2.7	NE
29/07/2017	20:15	2.2	W	30/07/2017	03:25	1.3	NNW	30/07/2017	10:35	0.4	SW
29/07/2017	20:20	2.2	NE	30/07/2017	03:30	2.2	E	30/07/2017	10:40	2.2	ENE
29/07/2017	20:25	3.6	NE	30/07/2017	03:35	0.9	E	30/07/2017	10:45	1.3	ENE
29/07/2017	20:30	0.9	NNE	30/07/2017	03:40	0.4	WNW	30/07/2017	10:50	1.8	SW
29/07/2017	20:35	1.3	W	30/07/2017	03:45	0.9	NW	30/07/2017	10:55	1.3	N
29/07/2017	20:40	1.3	WNW	30/07/2017	03:50	2.2	WSW	30/07/2017	11:00	0.4	N
29/07/2017	20:45	2.2	NNE	30/07/2017	03:55	1.3	WSW	30/07/2017	11:05	0.9	E
29/07/2017	20:50	0.9	W	30/07/2017	04:00	2.2	ENE	30/07/2017	11:10	0.4	WSW
29/07/2017	20:55	1.3	NNE	30/07/2017	04:05	0.9	ENE	30/07/2017	11:15	0.9	E
29/07/2017	21:00	2.2	E	30/07/2017	04:10	2.2	E	30/07/2017	11:20	0.4	E
29/07/2017	21:05	0.4	NNE	30/07/2017	04:15	2.2	E	30/07/2017	11:25	0.4	NE
29/07/2017	21:10	0.9	S	30/07/2017	04:20	2.7	NE	30/07/2017	11:30	0.9	SSW
29/07/2017	21:15	1.8	N	30/07/2017	04:25	2.7	E	30/07/2017	11:35	0.9	NNW
29/07/2017	21:20	2.7	NE	30/07/2017	04:30	2.2	E	30/07/2017	11:40	2.2	ENE
29/07/2017	21:25	0.4	NE	30/07/2017	04:35	0.9	ENE	30/07/2017	11:45	1.3	NNW
29/07/2017	21:30	0.9	ESE	30/07/2017	04:40	2.7	NE	30/07/2017	11:50	1.3	NNE
29/07/2017	21:35	2.2	NE	30/07/2017	04:45	0.9	NW	30/07/2017	11:55	1.3	WSW
29/07/2017	21:40	1.3	E	30/07/2017	04:50	0.9	ENE	30/07/2017	12:00	0.9	N
29/07/2017	21:45	2.2	NE	30/07/2017	04:55	1.3	WSW	30/07/2017	12:05	2.2	E
29/07/2017	21:50	1.3	E	30/07/2017	05:00	0.4	S	30/07/2017	12:10	0.4	NNW
29/07/2017	21:55	1.8	NE	30/07/2017	05:05	0.9	NW	30/07/2017	12:15	0.4	NE
29/07/2017	22:00	1.3	N	30/07/2017	05:10	0.9	ENE	30/07/2017	12:20	0.9	NW
29/07/2017	22:05	1.3	ENE	30/07/2017	05:15	1.8	NNE	30/07/2017	12:25	3.6	E
29/07/2017	22:10	1.3	W	30/07/2017	05:20	0.4	NNE	30/07/2017	12:30	1.3	ENE
29/07/2017	22:15	1.8	ENE	30/07/2017	05:25	0.4	E	30/07/2017	12:35	2.7	SW
29/07/2017	22:20	1.8	WNW	30/07/2017	05:30	0.9	ENE	30/07/2017	12:40	2.7	ENE
29/07/2017	22:25	0.9	W	30/07/2017	05:35	1.8	SSE	30/07/2017	12:45	0.4	NW
29/07/2017	22:30	1.3	W	30/07/2017	05:40	1.3	ENE	30/07/2017	12:50	1.3	W
29/07/2017	22:35	3.6	E	30/07/2017	05:45	0.4	WNW	30/07/2017	12:55	0.9	ENE
29/07/2017	22:40	1.8	NNE	30/07/2017	05:50	1.8	NNE	30/07/2017	13:00	1.3	W
29/07/2017	22:45	1.8	NNE	30/07/2017	05:55	0.9	SSE	30/07/2017	13:05	0.9	W
29/07/2017	22:50	0.9	NNW	30/07/2017	06:00	1.8	NE	30/07/2017	13:10	2.7	ENE
29/07/2017	22:55	2.2	NE	30/07/2017	06:05	1.8	NE	30/07/2017	13:15	1.8	NE
29/07/2017	23:00	0.4	NE	30/07/2017	06:10	2.7	ENE	30/07/2017	13:20	1.3	WSW
29/07/2017	23:05	1.8	N	30/07/2017	06:15	2.7	ENE	30/07/2017	13:25	2.2	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction	Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
30/07/2017	13:30	2.7	ENE	30/07/2017	20:40	0.4	E	31/07/2017	03:50	1.8	ENE
30/07/2017	13:35	0.9	E	30/07/2017	20:45	1.3	WSW	31/07/2017	03:55	2.7	NE
30/07/2017	13:40	1.8	NE	30/07/2017	20:50	1.3	NE	31/07/2017	04:00	2.7	W
30/07/2017	13:45	0.4	WNW	30/07/2017	20:55	0.9	ENE	31/07/2017	04:05	0.9	W
30/07/2017	13:50	2.7	ENE	30/07/2017	21:00	0.9	ENE	31/07/2017	04:10	1.8	W
30/07/2017	13:55	2.7	ENE	30/07/2017	21:05	1.8	ENE	31/07/2017	04:15	1.8	ENE
30/07/2017	14:00	1.3	WSW	30/07/2017	21:10	0.4	ENE	31/07/2017	04:20	0.9	ENE
30/07/2017	14:05	1.8	NNW	30/07/2017	21:15	0.9	NW	31/07/2017	04:25	0.9	N
30/07/2017	14:10	0.9	W	30/07/2017	21:20	2.2	ENE	31/07/2017	04:30	0.9	SW
30/07/2017	14:15	2.2	NNE	30/07/2017	21:25	0.9	NW	31/07/2017	04:35	0.4	ENE
30/07/2017	14:20	1.3	NNW	30/07/2017	21:30	1.3	NNW	31/07/2017	04:40	0.9	N
30/07/2017	14:25	2.7	E	30/07/2017	21:35	2.2	E	31/07/2017	04:45	0.9	ENE
30/07/2017	14:30	0.4	W	30/07/2017	21:40	1.3	W	31/07/2017	04:50	3.1	NE
30/07/2017	14:35	0.9	NE	30/07/2017	21:45	0.4	SE	31/07/2017	04:55	0.9	W
30/07/2017	14:40	2.7	NE	30/07/2017	21:50	0.9	SSW	31/07/2017	05:00	0.4	W
30/07/2017	14:45	0.9	NNW	30/07/2017	21:55	0.4	E	31/07/2017	05:05	2.2	NE
30/07/2017	14:50	1.3	ENE	30/07/2017	22:00	0.4	NNE	31/07/2017	05:10	1.8	ENE
30/07/2017	14:55	0.4	W	30/07/2017	22:05	0.4	SE	31/07/2017	05:15	0.9	W
30/07/2017	15:00	2.7	ENE	30/07/2017	22:10	0.9	NNE	31/07/2017	05:20	1.3	ENE
30/07/2017	15:05	0.9	NW	30/07/2017	22:15	1.3	ENE	31/07/2017	05:25	1.3	NNW
30/07/2017	15:10	1.3	N	30/07/2017	22:20	2.7	ENE	31/07/2017	05:30	1.3	WSW
30/07/2017	15:15	1.3	N	30/07/2017	22:25	2.2	WSW	31/07/2017	05:35	2.2	E
30/07/2017	15:20	1.3	ENE	30/07/2017	22:30	1.3	N	31/07/2017	05:40	1.3	WNW
30/07/2017	15:25	0.4	WSW	30/07/2017	22:35	2.2	E	31/07/2017	05:45	1.8	ENE
30/07/2017	15:30	0.9	W	30/07/2017	22:40	2.2	WNW	31/07/2017	05:50	2.2	W
30/07/2017	15:35	1.3	WSW	30/07/2017	22:45	1.3	WSW	31/07/2017	05:55	2.2	E
30/07/2017	15:40	1.8	E	30/07/2017	22:50	0.4	WNW	31/07/2017	06:00	1.3	E
30/07/2017	15:45	0.4	WNW	30/07/2017	22:55	1.3	NW	31/07/2017	06:05	2.7	W
30/07/2017	15:50	0.4	NNE	30/07/2017	23:00	1.3	NNE	31/07/2017	06:10	2.7	W
30/07/2017	15:55	0.4	E	30/07/2017	23:05	1.3	N	31/07/2017	06:15	2.7	W
30/07/2017	16:00	1.8	NW	30/07/2017	23:10	0.4	SSE	31/07/2017	06:20	0.9	N
30/07/2017	16:05	0.4	NW	30/07/2017	23:15	0.4	WNW	31/07/2017	06:25	2.2	NE
30/07/2017	16:10	0.4	WNW	30/07/2017	23:20	0.4	E	31/07/2017	06:30	1.3	SW
30/07/2017	16:15	0.4	ESE	30/07/2017	23:25	0.4	E	31/07/2017	06:35	1.3	NNE
30/07/2017	16:20	1.8	NE	30/07/2017	23:30	2.7	NE	31/07/2017	06:40	0.4	WSW
30/07/2017	16:25	1.3	NNE	30/07/2017	23:35	1.3	E	31/07/2017	06:45	2.2	NE
30/07/2017	16:30	2.2	E	30/07/2017	23:40	0.4	SE	31/07/2017	06:50	0.9	W
30/07/2017	16:35	2.7	ENE	30/07/2017	23:45	1.3	NNE	31/07/2017	06:55	0.9	ENE
30/07/2017	16:40	1.8	ENE	30/07/2017	23:50	1.8	NW	31/07/2017	07:00	0.9	N
30/07/2017	16:45	0.9	NE	30/07/2017	23:55	2.7	ENE	31/07/2017	07:05	0.9	ENE
30/07/2017	16:50	0.9	W	31/07/2017	00:00	1.3	WNW	31/07/2017	07:10	0.4	WSW
30/07/2017	16:55	1.3	ENE	31/07/2017	00:05	0.4	WSW	31/07/2017	07:15	2.2	NE
30/07/2017	17:00	4	E	31/07/2017	00:10	1.8	WNW	31/07/2017	07:20	2.7	NE
30/07/2017	17:05	0.9	W	31/07/2017	00:15	0.4	N	31/07/2017	07:25	0.4	NW
30/07/2017	17:10	0.4	E	31/07/2017	00:20	0.4	ESE	31/07/2017	07:30	0.9	NNE
30/07/2017	17:15	0.4	WNW	31/07/2017	00:25	0.4	ENE	31/07/2017	07:35	1.8	W
30/07/2017	17:20	0.9	NW	31/07/2017	00:30	0.4	NW	31/07/2017	07:40	2.7	E
30/07/2017	17:25	2.2	E	31/07/2017	00:35	0.4	NNW	31/07/2017	07:45	0.9	E
30/07/2017	17:30	2.2	NNE	31/07/2017	00:40	1.8	ENE	31/07/2017	07:50	2.2	E
30/07/2017	17:35	0.4	E	31/07/2017	00:45	1.3	WSW	31/07/2017	07:55	0.4	ENE
30/07/2017	17:40	0.9	N	31/07/2017	00:50	1.8	NW	31/07/2017	08:00	1.3	WSW
30/07/2017	17:45	1.8	NE	31/07/2017	00:55	2.2	W	31/07/2017	08:05	0.9	W
30/07/2017	17:50	0.9	SSW	31/07/2017	01:00	0.9	WNW	31/07/2017	08:10	1.8	WSW
30/07/2017	17:55	0.4	E	31/07/2017	01:05	1.8	ENE	31/07/2017	08:15	3.1	NE
30/07/2017	18:00	1.3	ENE	31/07/2017	01:10	1.3	ENE	31/07/2017	08:20	0.9	W
30/07/2017	18:05	0.4	NW	31/07/2017	01:15	2.2	W	31/07/2017	08:25	1.8	E
30/07/2017	18:10	0.4	S	31/07/2017	01:20	0.4	ENE	31/07/2017	08:30	2.7	W
30/07/2017	18:15	0.9	WSW	31/07/2017	01:25	1.8	ENE	31/07/2017	08:35	0.4	NE
30/07/2017	18:20	1.3	WSW	31/07/2017	01:30	0.9	NW	31/07/2017	08:40	0.9	NW
30/07/2017	18:25	1.8	W	31/07/2017	01:35	0.9	W	31/07/2017	08:45	0.9	E
30/07/2017	18:30	2.7	ENE	31/07/2017	01:40	1.3	ENE	31/07/2017	08:50	0.9	NE
30/07/2017	18:35	2.2	ENE	31/07/2017	01:45	2.2	W	31/07/2017	08:55	0.4	NW
30/07/2017	18:40	0.4	E	31/07/2017	01:50	1.3	ENE	31/07/2017	09:00	1.8	E
30/07/2017	18:45	2.2	ENE	31/07/2017	01:55	0.9	ENE	31/07/2017	09:05	2.2	W
30/07/2017	18:50	0.4	SE	31/07/2017	02:00	1.3	E	31/07/2017	09:10	0.4	E
30/07/2017	18:55	0.9	W	31/07/2017	02:05	2.2	N	31/07/2017	09:15	0.9	ENE
30/07/2017	19:00	1.3	WSW	31/07/2017	02:10	0.9	NE	31/07/2017	09:20	0.9	WSW
30/07/2017	19:05	1.8	W	31/07/2017	02:15	1.8	ENE	31/07/2017	09:25	0.4	ENE
30/07/2017	19:10	0.4	NW	31/07/2017	02:20	1.8	WSW	31/07/2017	09:30	1.3	SW
30/07/2017	19:15	3.1	WSW	31/07/2017	02:25	0.9	ENE	31/07/2017	09:35	2.7	NE
30/07/2017	19:20	2.2	E	31/07/2017	02:30	0.9	ENE	31/07/2017	09:40	2.7	W
30/07/2017	19:25	1.3	NNW	31/07/2017	02:35	0.9	W	31/07/2017	09:45	0.4	NNW
30/07/2017	19:30	2.2	E	31/07/2017	02:40	1.3	ENE	31/07/2017	09:50	0.9	ENE
30/07/2017	19:35	0.4	NNE	31/07/2017	02:45	1.8	W	31/07/2017	09:55	0.9	ENE
30/07/2017	19:40	1.3	NE	31/07/2017	02:50	0.9	ENE	31/07/2017	10:00	2.7	W
30/07/2017	19:45	2.2	E	31/07/2017	02:55	1.3	WNW	31/07/2017	10:05	0.4	E
30/07/2017	19:50	2.2	NNE	31/07/2017	03:00	2.2	W	31/07/2017	10:10	0.9	N
30/07/2017	19:55	2.7	NE	31/07/2017	03:05	0.4	E	31/07/2017	10:15	2.7	NE
30/07/2017	20:00	0.9	E	31/07/2017	03:10	0.4	N	31/07/2017	10:20	1.8	W
30/07/2017	20:05	1.3	W	31/07/2017	03:15	1.3	E	31/07/2017	10:25	1.8	W
30/07/2017	20:10	2.2	ENE	31/07/2017	03:20	0.9	ENE	31/07/2017	10:30	1.3	ENE
30/07/2017	20:15	1.8	NE	31/07/2017	03:25	0.4	WSW	31/07/2017	10:35	0.9	ENE
30/07/2017	20:20	0.9	NNW	31/07/2017	03:30	2.2	W	31/07/2017	10:40	1.3	WSW
30/07/2017	20:25	0.4	NNE	31/07/2017	03:35	0.9	ENE	31/07/2017	10:45	0.9	NE
30/07/2017	20:30	0.4	NNE	31/07/2017	03:40	0.9	W	31/07/2017	10:50	0.9	ENE
30/07/2017	20:35	0.9	ENE	31/07/2017	03:45	2.7	NE	31/07/2017	10:55	1.8	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date (dd/mm/yyyy)	Time	Wind Speed (m/s)	Wind Direction
31/07/2017	11:00	1.3	WNW
31/07/2017	11:05	0.9	N
31/07/2017	11:10	2.7	NE
31/07/2017	11:15	0.4	W
31/07/2017	11:20	1.8	ENE
31/07/2017	11:25	2.2	ENE
31/07/2017	11:30	0.9	NNE
31/07/2017	11:35	1.8	W
31/07/2017	11:40	0.9	W
31/07/2017	11:45	2.2	ENE
31/07/2017	11:50	0.9	ENE
31/07/2017	11:55	0.9	WSW
31/07/2017	12:00	0.9	ENE
31/07/2017	12:05	0.9	NE
31/07/2017	12:10	1.8	W
31/07/2017	12:15	1.3	ENE
31/07/2017	12:20	0.4	E
31/07/2017	12:25	2.7	NE
31/07/2017	12:30	1.3	SW
31/07/2017	12:35	0.9	W
31/07/2017	12:40	0.9	ENE
31/07/2017	12:45	1.3	WSW
31/07/2017	12:50	0.9	N
31/07/2017	12:55	0.9	E
31/07/2017	13:00	1.8	ENE
31/07/2017	13:05	1.8	N
31/07/2017	13:10	0.9	NE
31/07/2017	13:15	1.8	E
31/07/2017	13:20	1.8	WSW
31/07/2017	13:25	0.4	NW
31/07/2017	13:30	2.7	W
31/07/2017	13:35	0.4	ENE
31/07/2017	13:40	0.9	NNE
31/07/2017	13:45	0.4	E
31/07/2017	13:50	2.2	E
31/07/2017	13:55	0.4	E
31/07/2017	14:00	0.9	ENE
31/07/2017	14:05	0.9	ENE
31/07/2017	14:10	0.9	NNE
31/07/2017	14:15	0.4	NNW
31/07/2017	14:20	1.8	NW
31/07/2017	14:25	0.9	NE
31/07/2017	14:30	0.4	E
31/07/2017	14:35	2.7	ENE
31/07/2017	14:40	1.3	ENE
31/07/2017	14:45	0.4	WSW
31/07/2017	14:50	1.8	NNW
31/07/2017	14:55	2.2	NE
31/07/2017	15:00	0.4	WSW
31/07/2017	15:05	1.8	W
31/07/2017	15:10	1.8	E
31/07/2017	15:15	0.4	NNW
31/07/2017	15:20	1.8	W
31/07/2017	15:25	1.8	NW
31/07/2017	15:30	0.9	NW
31/07/2017	15:35	2.7	W
31/07/2017	15:40	0.9	ENE
31/07/2017	15:45	1.8	ENE
31/07/2017	15:50	0.9	NW
31/07/2017	15:55	0.9	W
31/07/2017	16:00	1.8	E
31/07/2017	16:05	0.9	W
31/07/2017	16:10	0.9	NW
31/07/2017	16:15	1.8	E
31/07/2017	16:20	1.8	ENE
31/07/2017	16:25	0.9	WNW
31/07/2017	16:30	0.4	WSW
31/07/2017	16:35	0.9	ENE
31/07/2017	16:40	0.9	N
31/07/2017	16:45	1.8	E
31/07/2017	16:50	1.8	ENE
31/07/2017	16:55	1.8	N
31/07/2017	17:00	1.3	W
31/07/2017	17:05	0.4	WSW
31/07/2017	17:10	1.8	N
31/07/2017	17:15	0.4	WNW
31/07/2017	17:20	0.4	E
31/07/2017	17:25	2.7	NE
31/07/2017	17:30	2.2	ENE
31/07/2017	17:35	1.8	ENE
31/07/2017	17:40	0.9	ENE
31/07/2017	17:45	1.8	N
31/07/2017	17:50	2.2	NE
31/07/2017	17:55	1.8	W
31/07/2017	18:00	2.7	NE
31/07/2017	18:05	1.8	N
31/07/2017	18:10	2.2	W
31/07/2017	18:15	0.9	ENE
31/07/2017	18:20	0.9	ENE
31/07/2017	18:25	2.2	NE
31/07/2017	18:30	0.9	ENE
31/07/2017	18:35	1.3	NNW
31/07/2017	18:40	3.1	NE
31/07/2017	18:45	1.8	NNW
31/07/2017	18:50	1.8	NW
31/07/2017	18:55	0.4	NNW
31/07/2017	19:00	1.8	E
31/07/2017	19:05	0.9	NE
31/07/2017	19:10	0.4	NW
31/07/2017	19:15	0.9	W
31/07/2017	19:20	2.7	N
31/07/2017	19:25	1.8	ENE
31/07/2017	19:30	0.9	W
31/07/2017	19:35	0.9	SW
31/07/2017	19:40	0.9	SW
31/07/2017	19:45	0.9	W
31/07/2017	19:50	1.3	NE
31/07/2017	19:55	3.1	W
31/07/2017	20:00	0.4	WSW
31/07/2017	20:05	0.9	ENE
31/07/2017	20:10	1.3	E
31/07/2017	20:15	2.2	ENE
31/07/2017	20:20	2.2	E
31/07/2017	20:25	1.3	NE
31/07/2017	20:30	1.3	NE
31/07/2017	20:35	1.3	WNW
31/07/2017	20:40	0.9	E
31/07/2017	20:45	1.8	W
31/07/2017	20:50	2.2	ENE
31/07/2017	20:55	2.2	NE
31/07/2017	21:00	0.9	ENE
31/07/2017	21:05	0.4	NNW
31/07/2017	21:10	0.9	NE
31/07/2017	21:15	0.4	NNW
31/07/2017	21:20	0.9	ENE
31/07/2017	21:25	1.8	N
31/07/2017	21:30	0.9	WNW
31/07/2017	21:35	2.2	W
31/07/2017	21:40	1.8	ENE
31/07/2017	21:45	0.9	ENE
31/07/2017	21:50	1.8	ENE
31/07/2017	21:55	0.9	E
31/07/2017	22:00	0.4	E
31/07/2017	22:05	0.9	W
31/07/2017	22:10	0.9	WSW
31/07/2017	22:15	2.2	NE
31/07/2017	22:20	0.4	E
31/07/2017	22:25	2.2	W
31/07/2017	22:30	0.4	NW
31/07/2017	22:35	0.9	SW
31/07/2017	22:40	0.4	WSW
31/07/2017	22:45	0.9	WSW
31/07/2017	22:50	2.7	NE
31/07/2017	22:55	0.9	ENE
31/07/2017	23:00	0.4	WNW
31/07/2017	23:05	0.4	NNW
31/07/2017	23:10	3.1	W
31/07/2017	23:15	0.9	NE
31/07/2017	23:20	0.4	ENE
31/07/2017	23:25	3.1	W
31/07/2017	23:30	0.9	ENE
31/07/2017	23:35	1.3	ENE
31/07/2017	23:40	0.9	ENE
31/07/2017	23:45	2.7	NE
31/07/2017	23:50	0.4	ESE
31/07/2017	23:55	0.4	E
01/08/2017	00:00	0.9	ENE

APPENDIX H

Dolphin Monitoring Results

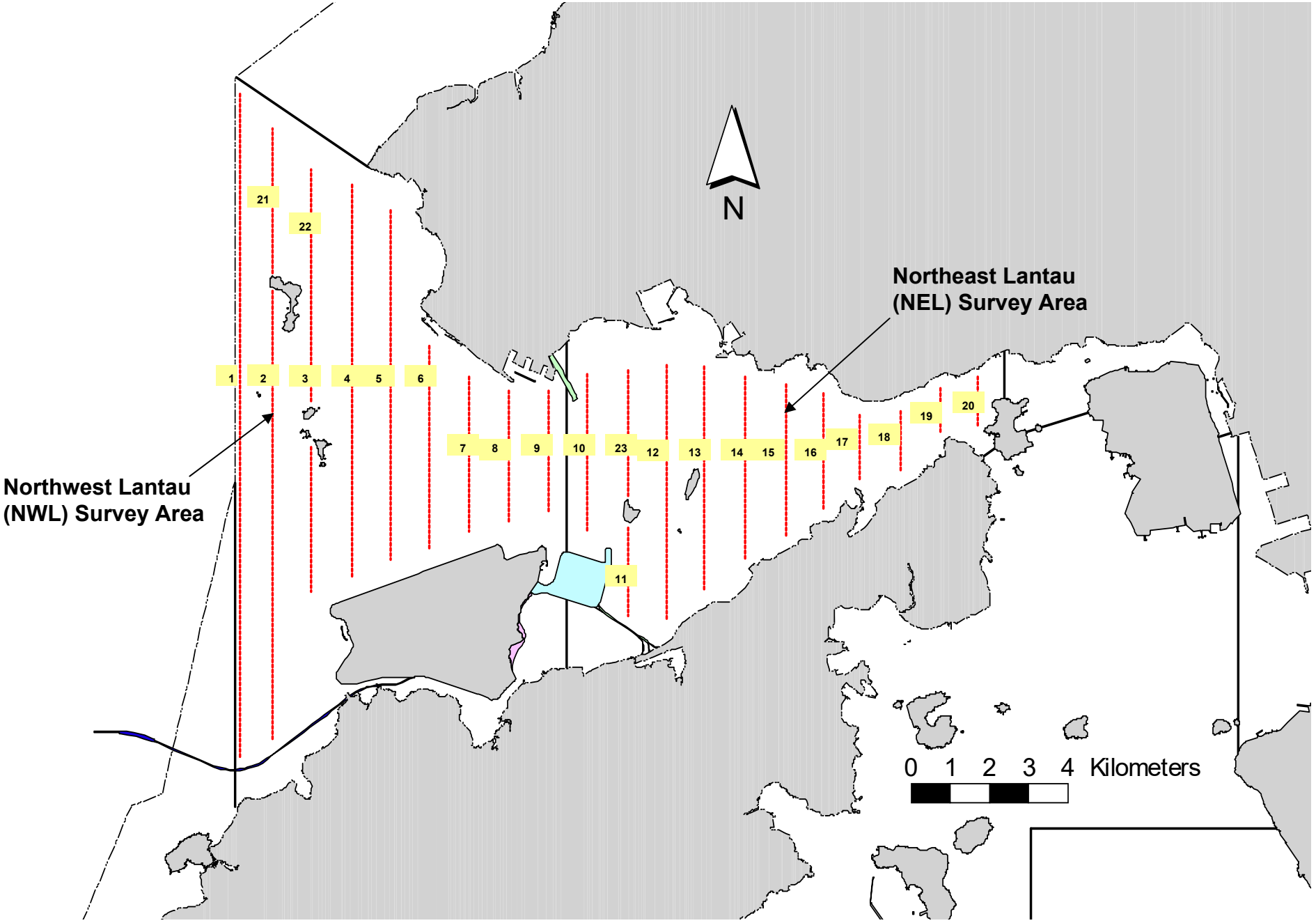


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

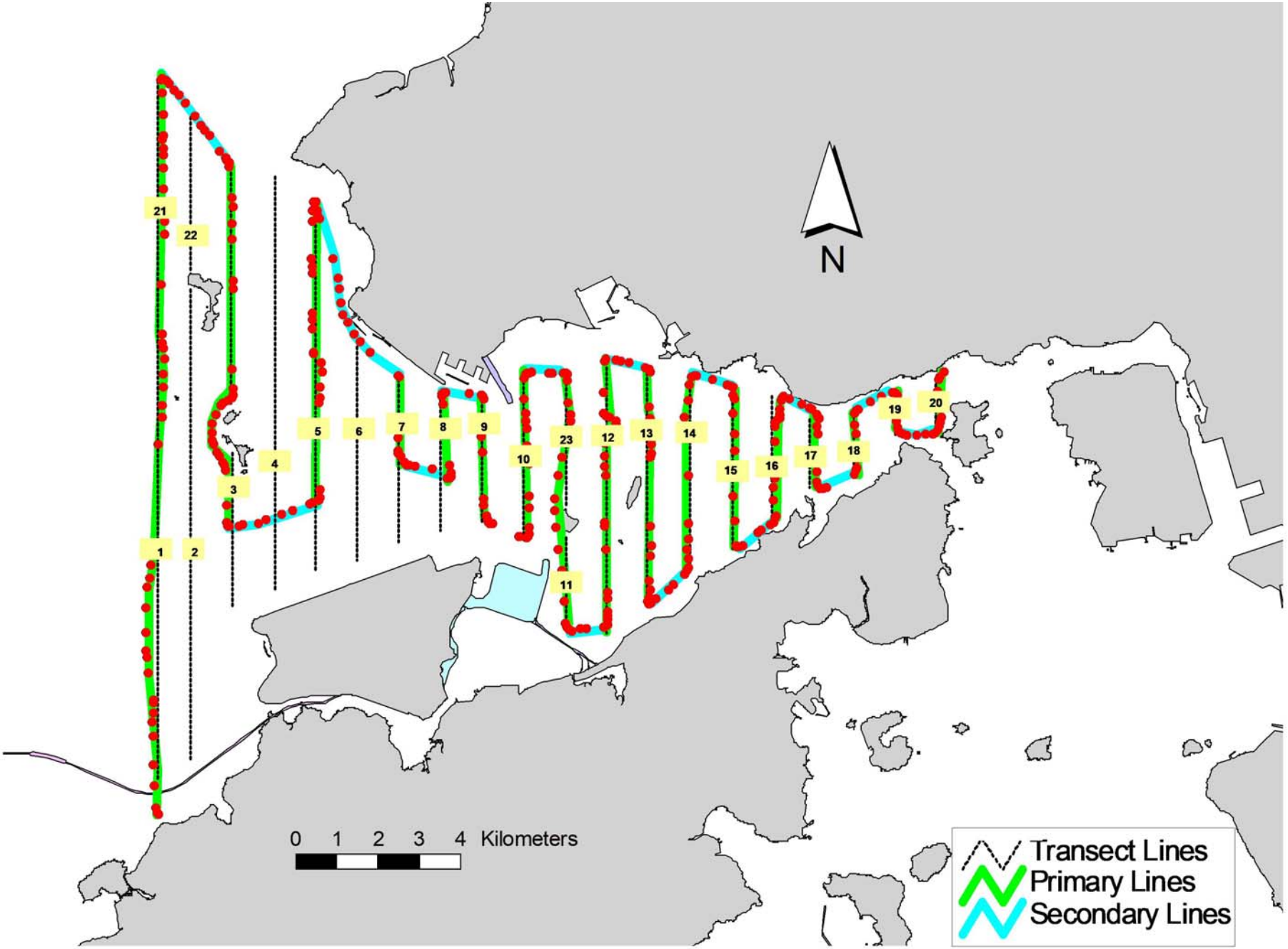


Figure 2. Survey Route on July 20th, 2017

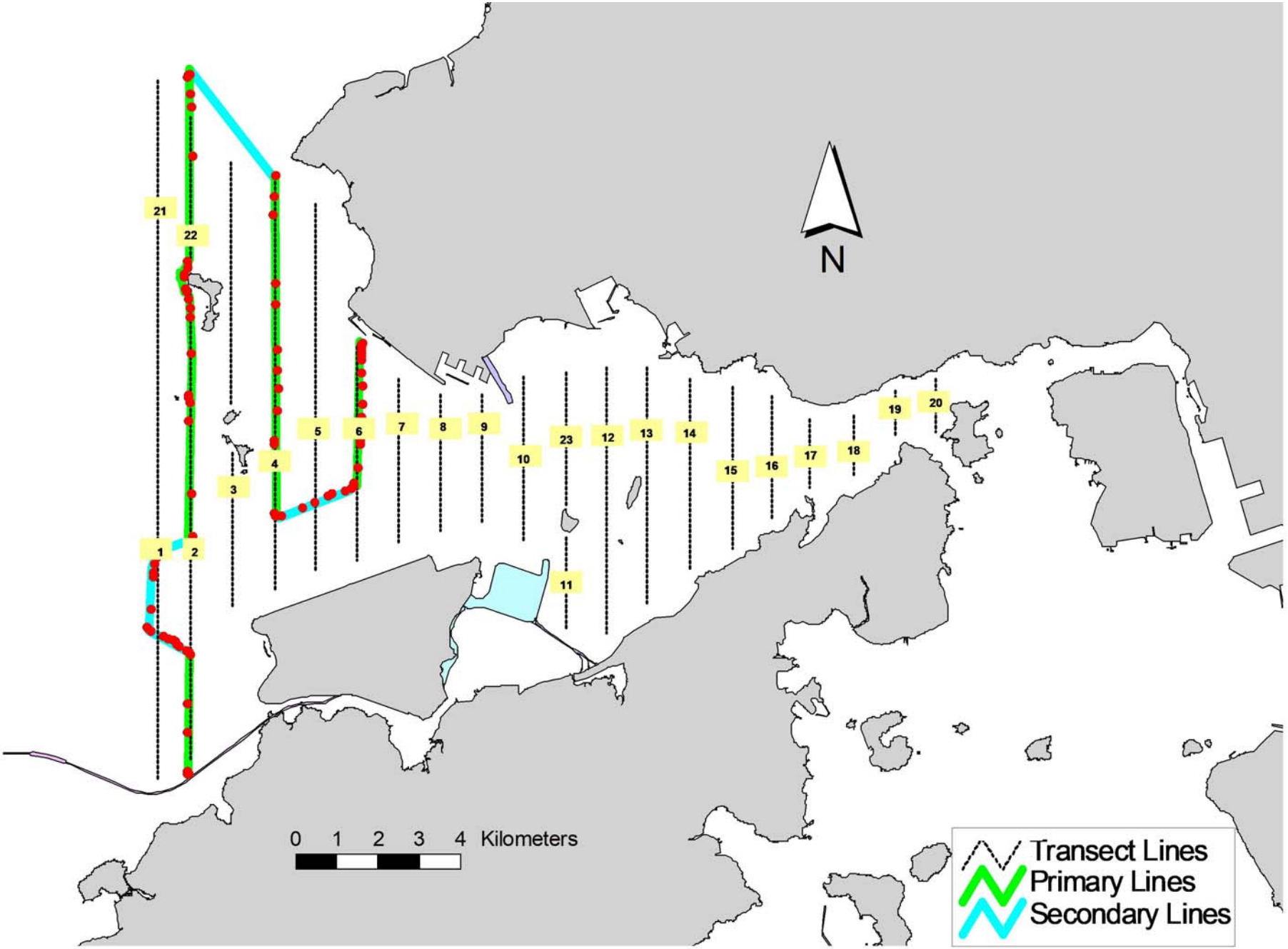


Figure 3. Survey Route on July 24th, 2017

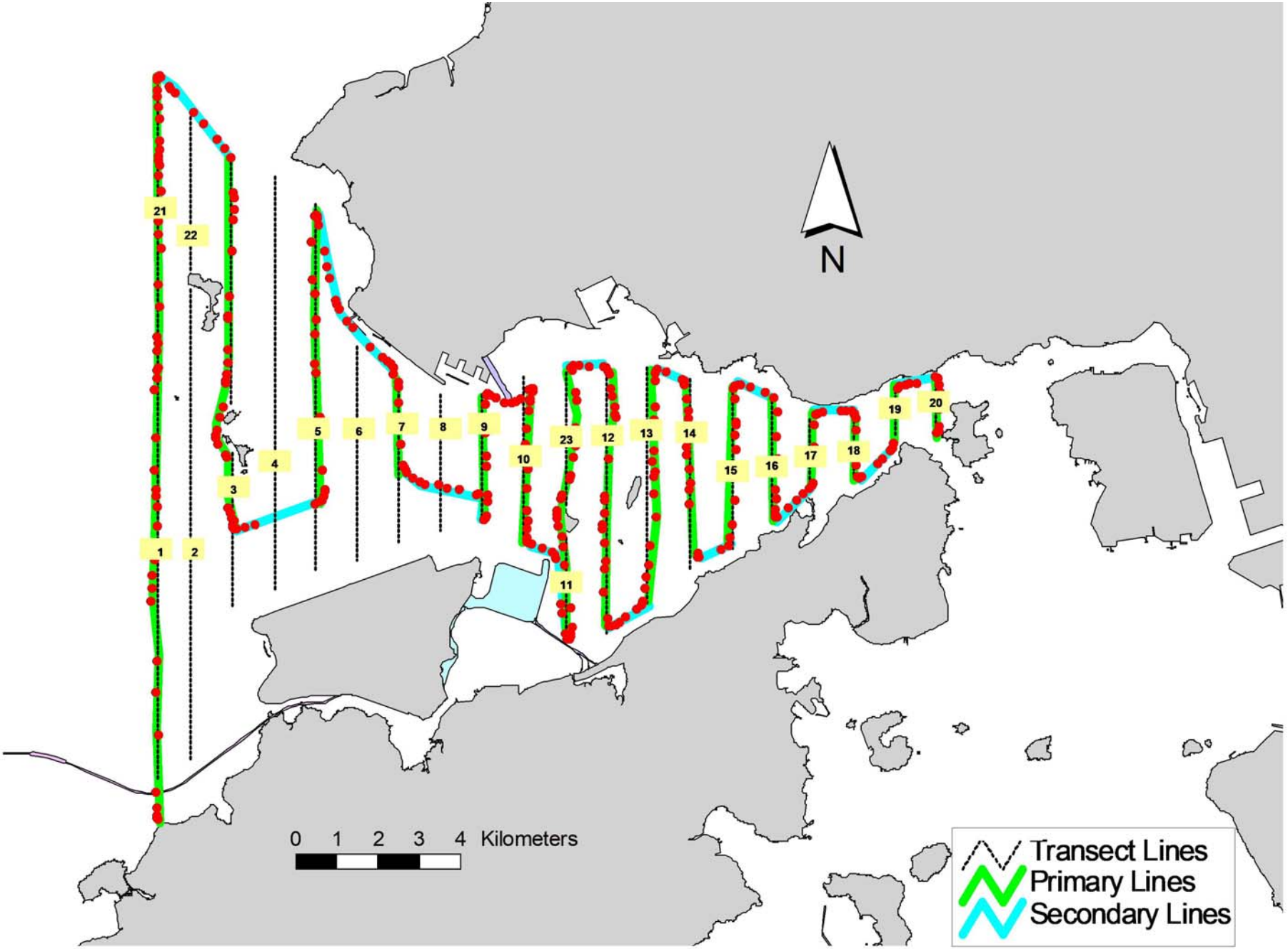


Figure 4. Survey Route on July 27th, 2017

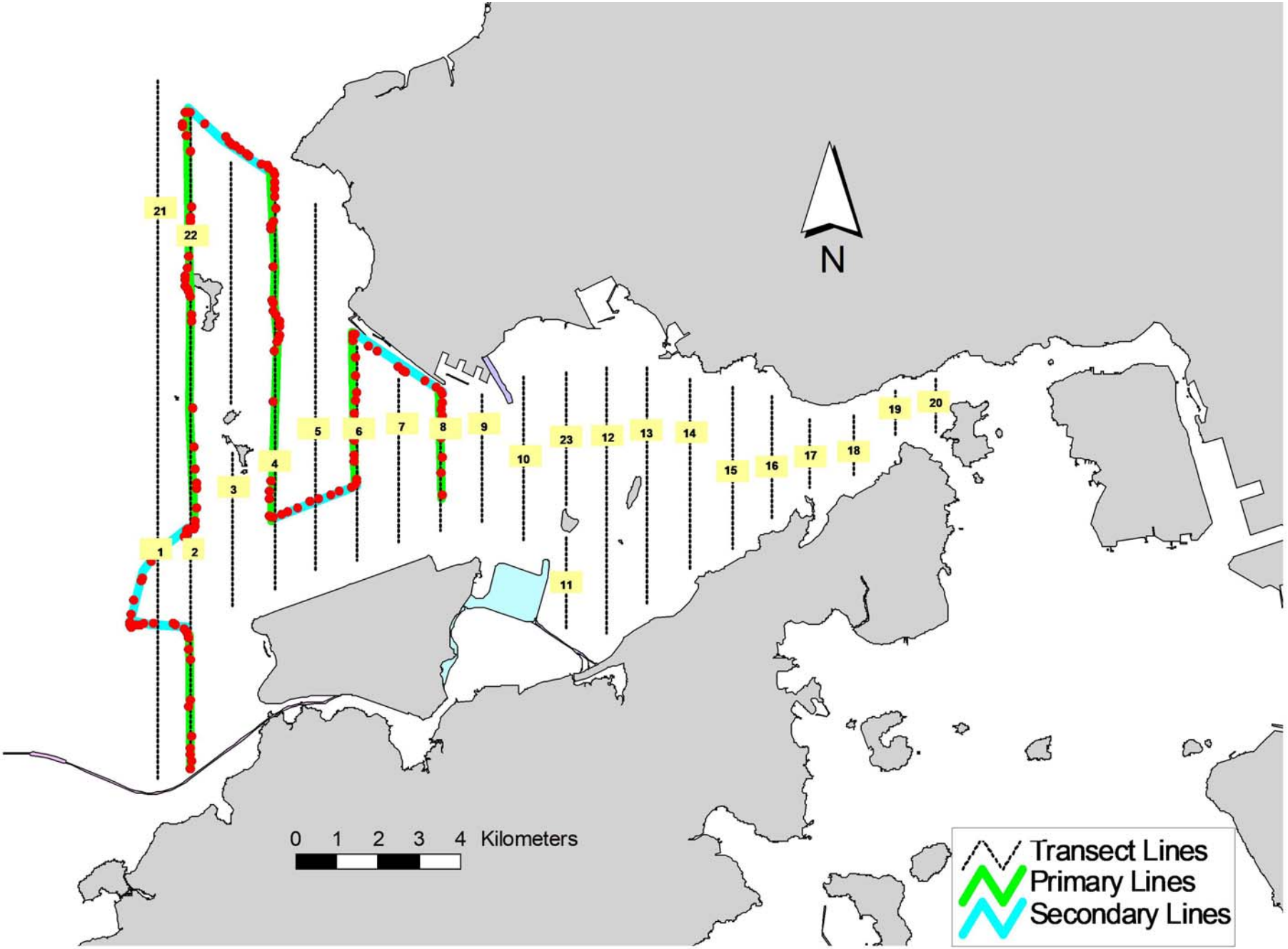


Figure 5. Survey Route on July 28th, 2017

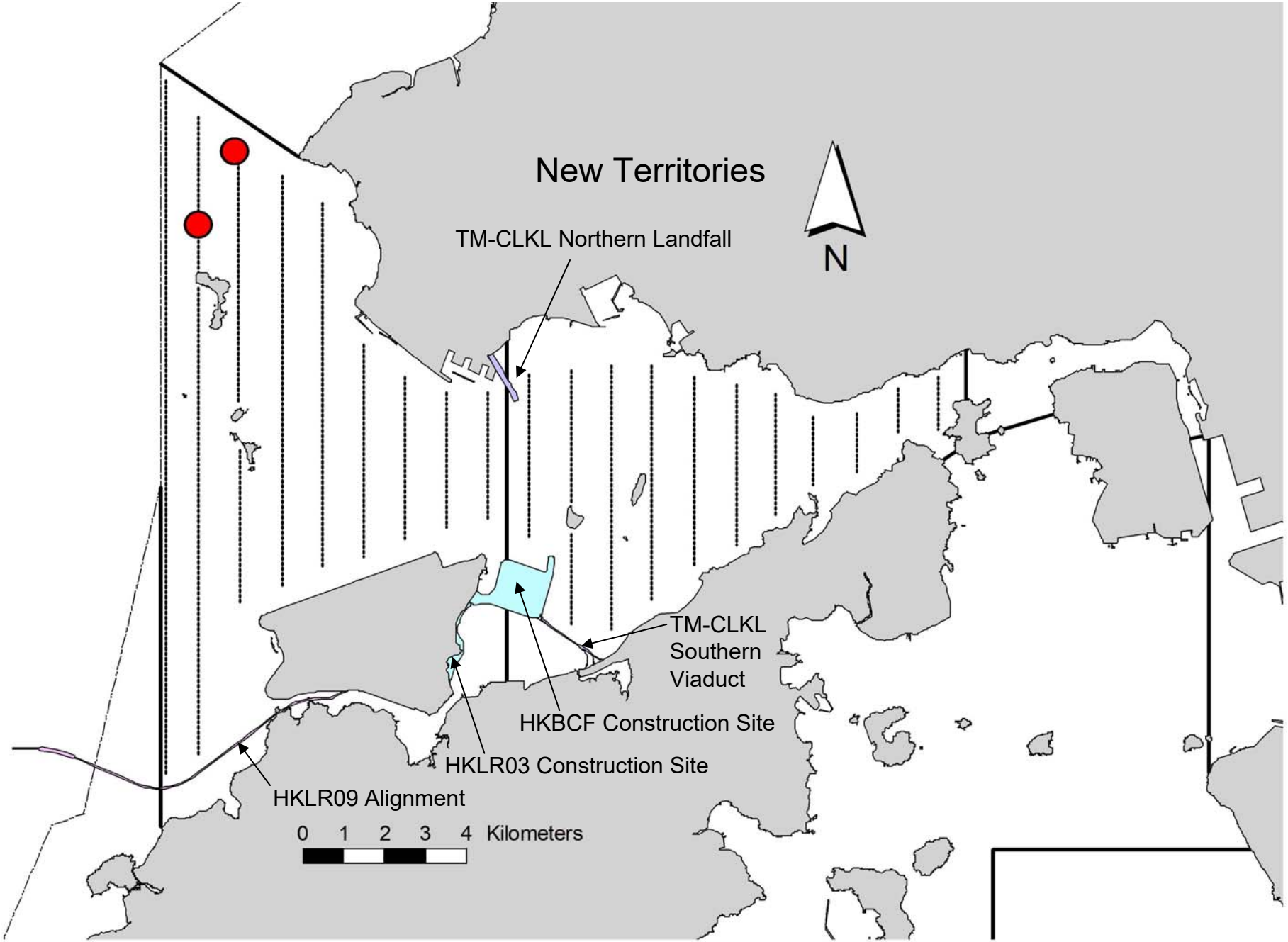


Figure 6. Distribution of Chinese White Dolphin Sightings during July 2017 HKLR03 Monitoring Surveys

Annex I. HKLR03 Survey Effort Database (July 2017)

(Abbreviations: BEAU = Beaufort Sea State; P = Primary Line Effort; S = Secondary Line Effort)

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
20-Jul-17	NW LANTAU	2	18.97	SUMMER	STANDARD36826	HKLR	P
20-Jul-17	NW LANTAU	3	18.23	SUMMER	STANDARD36826	HKLR	P
20-Jul-17	NW LANTAU	2	7.00	SUMMER	STANDARD36826	HKLR	S
20-Jul-17	NW LANTAU	3	5.70	SUMMER	STANDARD36826	HKLR	S
20-Jul-17	NW LANTAU	4	1.60	SUMMER	STANDARD36826	HKLR	S
20-Jul-17	NE LANTAU	1	3.80	SUMMER	STANDARD36826	HKLR	P
20-Jul-17	NE LANTAU	2	31.92	SUMMER	STANDARD36826	HKLR	P
20-Jul-17	NE LANTAU	1	1.20	SUMMER	STANDARD36826	HKLR	S
20-Jul-17	NE LANTAU	2	10.58	SUMMER	STANDARD36826	HKLR	S
24-Jul-17	NW LANTAU	2	20.28	SUMMER	STANDARD36826	HKLR	P
24-Jul-17	NW LANTAU	3	3.38	SUMMER	STANDARD36826	HKLR	P
24-Jul-17	NW LANTAU	2	6.35	SUMMER	STANDARD36826	HKLR	S
27-Jul-17	NW LANTAU	2	32.62	SUMMER	STANDARD36826	HKLR	P
27-Jul-17	NW LANTAU	3	3.79	SUMMER	STANDARD36826	HKLR	P
27-Jul-17	NW LANTAU	2	12.69	SUMMER	STANDARD36826	HKLR	S
27-Jul-17	NE LANTAU	2	22.18	SUMMER	STANDARD36826	HKLR	P
27-Jul-17	NE LANTAU	3	13.60	SUMMER	STANDARD36826	HKLR	P
27-Jul-17	NE LANTAU	2	11.02	SUMMER	STANDARD36826	HKLR	S
27-Jul-17	NE LANTAU	3	2.00	SUMMER	STANDARD36826	HKLR	S
28-Jul-17	NW LANTAU	1	2.10	SUMMER	STANDARD36826	HKLR	P
28-Jul-17	NW LANTAU	2	19.21	SUMMER	STANDARD36826	HKLR	P
28-Jul-17	NW LANTAU	3	4.53	SUMMER	STANDARD36826	HKLR	P
28-Jul-17	NW LANTAU	2	10.69	SUMMER	STANDARD36826	HKLR	S
28-Jul-17	NW LANTAU	3	1.77	SUMMER	STANDARD36826	HKLR	S

Annex II. HKLR03 Chinese White Dolphin Sighting Database (July 2017)

(Abberviations: STG# = Sighting Number; HRD SZ = Dolphin Herd Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance; BOAT ASSOC. = Fishing Boat Association; P/S: Sighting Made on Primary/Secondary Lines)

DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
24-Jul-17	1	1111	9	NW LANTAU	2	243	ON	HKLR	828092	805439	SUMMER	NONE	P
27-Jul-17	1	1131	2	NW LANTAU	2	16	ON	HKLR	829774	806339	SUMMER	NONE	S

Annex III. Individual dolphins identified during HKLR03 monitoring surveys in July 2017

ID#	DATE	STG#	AREA
NL46	24/07/17	1	NW LANTAU
NL49	24/07/17	1	NW LANTAU
NL105	24/07/17	1	NW LANTAU
NL123	24/07/17	1	NW LANTAU
NL202	24/07/17	1	NW LANTAU
NL286	24/07/17	1	NW LANTAU
WL05	27/07/17	1	NW LANTAU
WL11	27/07/17	1	NW LANTAU

Annex IV. Photographs of Identified Individual Dolphins in July 2017 (HKLR03)

APPENDIX I

Waste Flow Table

MONTHLY SUMMARY WASTE FLOW TABLE

Name of Department: HyD

Contract No.: HY/2011/03

Monthly Summary Waste Flow Table for 2017

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	**Hard Rock and Large Broken Concrete**	**Reused in the Contract** ***(Note 8)***	**Reused in Other Projects** ***(Note 8)***	**Disposed as Public Fill** ***(Note 6)***	**Imported Fill** ***(Note 6)***	**Metals**	**Paper / Cardboard Packaging**	**Plastics** ***(Note 3)***	**Chemical Waste**	**Others, e.g. general refuse** ***(Note 8)***
	(in '000m^3)	**(in '000m^3)**	**(in '000m^3)**	**(in '000m^3)**	**(in '000m^3)**	**(in '000m^3)**	**(in '000kg)**	**(in '000kg)**	**(in '000kg)**	**(in '000kg)**	**(in '000m^3)**
Jan	15.114	0.000	2.656	10.522	1.936	0.000	10.614	0.000	0.000	0.000	0.741
Feb	5.494	0.000	3.320	0.910	1.264	0.000	13.291	0.000	0.000	0.000	0.663
Mar	11.228	0.000	2.496	7.540	1.192	0.000	14.439	0.000	0.000	0.000	1.034
Apr	12.782	0.000	3.696	8.350	0.736	0.000	14.871	0.000	0.000	0.000	0.819
May	26.734	0.000	4.576	21.006	1.152	0.000	13.363	0.000	0.000	0.000	1.144
Jun	77.205	0.000	3.424	72.469	1.312	0.000	15.565	0.000	0.000	0.900	1.983
Sub-total	148.557	0.000	20.168	120.797	7.592	0.000	82.143	0.000	0.000	0.900	6.383
Jul	To be updated	0.000	To be updated	31.732	1.304	0.000	18.490	0.600	0.000	0.000	1.027
Aug											
Sep											
Oct											
Nov											
Dec											
Sub- total											
Total											

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	**Hard Rock and Large Broken Concrete**	**Reused in the Contract**	**Reused in Other Projects**	**Disposed as Public Fill**	**Imported Fill**	**Metals**	**Paper / Cardboard Packaging**	**Plastics (see Note 3)**	**Chemical Waste**	**Others, e.g. general refuse**
(in '000m^3)	**(in '000m^3)**	**(in '000m^3)**	**(in '000m^3)**	**(in '000m^3)**	**(in '000m^3)**	**(in '000kg)**	**(in '000kg)**	**(in '000kg)**	**(in '000kg)**	**(in '000m^3)**
310.805	21.788	224.130	40.265	24.622	1362.000	10.000	4.600	0.500	3.400	2.350

Notes:
(1) The performance target are given in ER Appendix 8J Clause 14
(2) The waste flow table shall also include C&D materials that are not specified in the Contract to be imported for use at the Site
(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
(4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m^3.
(5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.
(6) Conversion factors for reporting purpose:
excavated (bulk): rock = 2.0 tonnes/m^3; soil = 1.8 tonnes/m^3 , sand=1.9 tonnes/m^3 Metal=7.85 tonnes/m^3
(7) Numbers are rounded off to the nearest three decimal places
(8) 30T dump truck carries C&D waste of 8.0m^3; 24T dump truck carries C&D waste of 6.5m^3
(9) The actual quantities of inert C&D materials generated in July 2017 will be updated in Monthly EM&A Report for August 2017.

APPENDIX J

Cumulative Statistics on Complaints

HyD Contract No.HY/2011/03
Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2012-008	22-Oct-2012	16:41	EPD	Environmental (Water Pollution)	X先生投訴東涌機場對出港珠澳大橋地盤，有污水排到海中（懷疑是油污），污染環境，要求跟進及回覆。(Photos attached). The "phenomenon"was observed over the past week. The photos attached were taken on 19.10.2012, 22.10.2012 and 23.10.2012	Portion X	The pelican barge as shown in the photos provided on 24 October 2012 did not belong to the Contractor.	Closed	-
COM-2012-009	05-Nov-2012	-	1823 CASE: 1-391341859	Environmental (Noise and light)	The citizen complained about noise and light pollution from the barges working on the Zhuhai Macau Bridge project. Barge machinery working to about 10pm at night and sometimes can be heard intermittently through the night. The noise is more audible because the machinery is sited on/over the water.	Portion X	The Contractor has adjusted the emission angle of the lights on working vessels with a view to minimizing the glaring effect to the adjoining residential areas	Closed	-
COM-2012-009(2)	11-Nov-2012	-	1823 CASE: 1-391341859	Environmental (Noise, water quality & air quality)	The complainant noted that the barges are still working on a Sunday, up until 10pm at night, very noisy, causing pollution of the water and at times expelling black smoke from their engines. A photograph taken at 10.40am on Sunday 11 November 2012 was attached.	Portion X	-	Closed	-
COM-2012-009(3)	14-Nov-2012	-	1823 CASE: 1-391341859	Environmental (Noise)	The complainant did not accept the reply. He further said that "All staff has to do is come out either at night or a Sunday to check, so easy. If this continues I will have no choice to call the police out."	Portion X	The Contractor has taken the following further mitigation measures for the reclamation works: (a) Mitigation Measures for Noise Nuisance: • Improvement of noise covers onto the generators / motors on barges; and • Increase frequency of applying lubricant to all moving parts and gear wheels of the working barges. (b) Mitigation Measures for Smoke Emission: • Increase frequency of maintenance and checking of engines on barges that may emit smoke; and • Installation/ replacement of smoke suppression device such as air filter, at engines where necessary.	Closed	-
COM-2012-010(1)	06-Nov-2012	-	<hzmbenquiry@hyd.gov.hk>	Environmental (Noise)	The complainant stated that lately work has started opposite Le Bleu Deux estate using barges. The work in process is generated high level of noise from powered tools used on those barges. Even if the noise was acceptable on weekdays during daytime, it is definitely creating nuisance to local resident at night (past 7pm) and on Sunday. Basically as 5 November 12 evening, he could not leave his window open as the elevel of noise prevent his baby to sleep and he could not even hear the TV in his flat. the noise coming from the site is higher then the sounds from my TV. He would like to know what measure you are planning to put in place to address this issue. He did not think that the current level of noise are acceptable past 7pm and on Sunday.	Portion X	-	Closed	-
COM-2012-010(2)	15-Nov-2012	-	<hzmbenquiry@hyd.gov.hk>	Environmental (Noise & air quality)	The noise can be very annoying, on days depending of the wind direction, you are making more noise than the plane taking off (I measured it myself), to give you an idea of the disturbance you are creating again. *I would also like to bring an other topic beside the noise. Since the beginning of the filling operation, very strong smell of exhaust pipe gas can be smelt in the residential area and I think this is a huge health concern for the local population. On certain days when the wind is blowing towards the residential areas, I have the feeling that there is a diesel engine running in my living room! I would like to know how you are planning to address this?*	Portion X	-	Closed	-

HyD Contract No.HY/2011/03
Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2012-010(3)	15-Nov-2012	–	EPD	Environmental (Noise, water quality & air quality)	The complainant has copied his reply from HyD dated 15 Nov 2012 to EPD and Health Department and he further complained on the following issues: • Noise nuisance generated by diesel engine; • Smell of exhaust pipe gas in his residence; and • Suspected marine water pollution (see enclosed photo). The complainant also requested EPD to install noise and air quality monitoring at Le Bleu Deux estate.	WA6 Portion X	Noise from blowing horn from vessels and barges and Metallic Parts thrown on Ground • Reminded the Contractor to request the captains of the vessels and barges not blowing the horn except in case of emergency or prevention of ship collisions/serious safety matters; • The supervision teams would enhance their tight control on the vessels and barges working at that location, and monitor the situation and take corresponding actions; and • To enhance the work force of RSS to supervise each step of construction activities and the use of hand tools until the completion of the site office erection. Noise from Engines and Cranes of the Barges during Marine Operation • Installation of noise covers onto the generators / motors on all working barges; • Increase frequency of applying lubricant to all moving parts and gear wheels of the working barges to avoid generation of abnormal sound; and • Review of working hours for the reclamation works and switching off all unnecessary machinery and plants at night time and Sundays. Noise from power generators • All generators shall be either screened or covered by adequate sound reducing materials; • All generators situated in front of Le Bleu Deux estate will be switched off at 19:00 hrs, except two generators will be kept running up to 22:00hrs and one generator will be kept running overnight for maintaining minimum power requirement; and • Arrangement with CLP Power HK Ltd (CLP) for the permanent power supply to the site offices has been chased in a matter of urgency. The use of power generators will be terminated in phase starting from 6 December 2012. Exhaust Fume Emission • Tight control on using the machine and generators in the vicinity of Le Bleu Deux estate; and • Closely monitor the frequency on engine cleansing and replacement of dust filter. Change of Sea Water in Yellow • The Contractor was reminded to move their vessels and barges at areas with adequate water depth as practically as possible.	Closed	–
COM-2012-010(4)	19-Nov-2012	22:25 hrs.	EPD	Environmental (Air quality and Noise)	The complainant filed again a complaint for the strong exhaust pipe fumes smell coming for the construction site in Tung Chung tonight as well as the extremely high level of noise as at at 10:30 pm (19/11/12).	WA6			
COM-2012-010(5)	24-Nov-2012 25-Nov-2012	13:42 hrs. 13:49 hrs 22:02 hrs. 22:08 hrs.	EPD (cc to HyD) EPD (cc to HyD)	Environmental (Air quality and Noise)	The noise is coming for the following sources: - power generator - engines from the barges used for marine operation - noise from the cranes use of the construction barges. - engine from the boat used to transport staff in and out - boats blowing their horn late in the evening and at night Gas emissions: - power generators - marine operation The complainant file again a complaint against the strong exhaust pipe emission flowing towards le Bleu Deux estate this afternoon 24/11/10 at 13:47. I can assure you that is it not "not that bad" whatever that means for you. And again strong noise of metallic parts being thrown on the ground. *I thought you have already sorted out that problem according to your multiple replies to my complaints since July???"* A pictures taken this morning (25/11/12) around 9:30am-10am showing the water pollution in different area outside the floating barriers. At 21:56 hrs., boat used by the Highway Department against blew their horn repetitively at close proximity from the residential estate.	WA6 Portion X			
COM-2012-012(1)	13-Nov-2012	22:27 hrs.	HyD	Environmental (Noise)	Once again your site continues to work late. The attached photo was taken at 10.15pm on Tuesday 13 Nov. The machinery used on the barges is very noisy. Why do you continue to work till 10pm and why do you work on a Sunday. Surely this is classified as a construction site for which you are in breach of various ordinances. An early reply is appreciated.	Portion X	The following further mitigation measures during the course of the reclamation works will be taken: • Installation of noise covers onto the generators / motors on all working barges; • Increase frequency of applying lubricant to all moving parts and gear wheels of the working barges to avoid generation of abnormal sound; and • Review of working hours for the reclamation works and switching off all unnecessary machinery and plants at nighttime and Sundays.	Closed	–
COM-2013-015	17-Jan-2013	–	EPD	Environmental (Air)	The complainant raised that construction dust was arising from construction site of China State Contruction Engineering (Hong Kong) Ltd near Siu Ho Wan Sewage Treatment Works due to insufficient dust suppression and inadequate wheel washing.	WA3	The Contractor of HY/2011/03 would take the following actions with immediate effect • To ensure no loosed earth material exposed at the edges of eth stockpiled earth materials i.e. to prevent erosion by wind and water ; • To cover the stockpiled earth material by adequate tarpaulin; • To enhance the frequency of watering (3 times per day) onto existing haul road and other area as appropriate; and • To install a water sprinkler system to enhance the existing dust suppression measures once the water point is ready for water supply by WSD.	Closed	

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Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2013-016	18-Jan-2013	-	EPD	Environmental (Water)	The complainant advised that turbid water and concrete/cement has been arising from the Hong Kong-Zhuhai-Macao Bridge Hong Kong Projects to marine water. The complainant did not specify the soure of the turbid water and concrete/cement.	N/A	-	Closed	-
COM-2013-018	02-Mar-2013	-	HyD	Environmental (Noise)	The complainant advised that "It seems that the Contractor's cranes operating on the barges are again in need of bit of lubricant, as this evening i.e. 2 March 2013, the cranes are again polluting the neighborhood with intolerable noise." The complainant requested Mr. Ng from EPD to take note of this complaint and expected a detailed report.	Portion X	The Contractor has been reminded to continue the process of applying lubricant/ grease to all barges which are to be worked in the site area near Le Bleu Deux.	Closed	-
COM-2013-018 (2)	04-Mar-2013	-	EPD	Environmental (Noise)	The complainant complained that the cranes operating on the barges for the HZMB HK project generating squeak noise in the evening of 1 March 2013 causing an annoyance to him/her.	Portion X	The Contractor implemented the following measures : - Briefing given to the operator for the proper operation of marine vessels; - Keep adequate routine maintenance ; - Minimize the quantities of plant after 7pm; & - Review the working hours of night time works and switch off all unnecessary machinery and plants at night time.	Closed	-
COM-2013-018 (3)	13-Mar-2013	-	HyD	Environmental (Noise)	The complainant asked what noise mitigation the Contractor was taking. The complainant pointed out that the noise in question was so strong that it woke up his baby girl.	Portion X	-	Closed	-
COM-2013-018 (4)	22-Mar-2013 24-Mar-2013	14:19 hrs 10:28 hrs	HyD	Environmental (Noise)	The complainant complained that "the lifting appliance was operated gently and softly to keep the noise emission as low as possible" but the noise still woke up his baby. "Lubricant was regularly applied to smoothen all moving parts and gear wheels of the working barges" that did not seem to be the case at all. The complainant pointed that the crane operating at 10:27 hrs on 24 March 2012 needed lubricant.	Portion X	The Contractor will keep on closely monitoring the situation and carry out the necessary noise mitigation measures while barges are working in the site area nearby residential area.	Closed	-
COM-2013-018 (5)	31-Mar-2013 1-Apr-2013	10:25 hrs 10:32 hrs	HyD	Environmental (Noise)	The complainant complained that noise emitted from a crane at 10:19 hrs. The complainant further complained that noise was generated from a barge at 07:30 hrs.	Portion Y	-	Closed	-
COM-2013-018 (6), (7) & (9)	15-Apr-2013	15:41 hrs	EPD	Environmental (Noise)	The complainant complained that machinery noise generated from the construction site near Tung Chung Development Pier operating for the Hong Kong-Zhuhai-Macao Bridge Hong Kong during the normal working hours on 6 April 2013 and 13 April 2013 and the late evening of 10 April 2013 causing nuisance to public.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours and non-restricted hours, the Contractor has implemented the following additional measures: - Briefing given to the operator of the barges for proper operation of marine vessels; - Operating barge by experienced operators only; - Keeping adequate routine maintenance for barges e.g. application of lubricants into moving parts in order to minimize squeak noise; - Install noise covers onto noisy equipment where practicable. - Remind subcontractor only well-maintained plant should be operated on-site. - Minimized the quantities of plant used after 7pm as far as practicable; - Speed up of construction works in order to shorten the duration (days) of potential noise impact/nuisance to the surrounding environment; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	-

HyD Contract No.HY/2011/03
Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2013-018 (11)	28-Apr-2013	15:44	EPD	Environmental (Noise)	The complainant complained that machinery noise generated from the reclamation site near Tung Chung Development Pier at around 22:00 of 28 April 2013 causing nuisance to public.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - Briefing given to the operator of the barges for proper operation of marine vessels; - Operating barge by experienced operators only; - Keeping adequate routine maintenance for barges e.g. application of lubricants into moving parts in order to avoid squeak noise; - Install noise covers onto noisy equipment where practicable. - Remind subcontractor only well-maintained plant should be operated on-site. - Speed up of construction works in order to shorten the duration (days) of potential noise impact/nuisance to the surrounding environment; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	-
COM-2013-022	08-Apr-2013	--	EPD	Environmental (Water)	The complaint alleged that oil was dumped from various vessels operating for HZMB HK projects near Tung Chung Development Pier over the past few months. Photos were provided by the complainant.	Portion X	The Contractor has checked the photos provided by the complainant and confirmed that the vessels and boats shown in the photos do not belong to Contract No. HY/2011/03.As this complaint is not related to this Contract, no follow up action is required. The Contractor has reminded their subcontractors to implement the measures recommended in the Spill Response Plan (SRP) in case of accidental release of oils from vessel.	Closed	-
COM-2013-022(2)	23-May-2013	09:15 hrs	EPD	Environmental (Water)	This complaint was a follow-up of a previous complaint received by EPD on 8 April 2013 regarding oil slicks caused by vessels. It was alleged that oil was still being dumped from various vessels operating for HZMB HK projects near Tung Chung Development Pier over the past few months. On the other hand, the complainant would also like to know whether the owners of the vessels could present engine oil disposal records for the vessels which supported the HZMB project.	Portion X	The Contractor has reminded their subcontractors to implement the measures recommended in the Spill Response Plan in case of accidental release of oils from vessel and handle the chemical waste (waste oil) in accordance with the requirements provided in the EM&A Manual.	Closed	-
COM-2013-023	02-May-2013	--	HyD	Environmental (Noise)	The complainant alleged that there were metal parts dropped on the ground creating noise at 12:58 on 1 May 2013	WA6	If there are metal handling works, the Contractor will not carry out the metal handling works in early morning in order to minimize potential noise disturbance as far as practicable in future.	Closed	-
COM-2013-024	23-May-2013	09:50 hrs	EPD	Environmental (Noise)	A complaint was received on 23 May 2013 regarding noise generated from dropping metal parts on numerous occasion on the pier opposite Le Blau Deux at around 08:45 to 10:00 hrs of 18 May 2013 and loading/unloading activities creating noise disturbance by the contractor of HY/2011/03.	WA6	If there are metal handling works, the Contractor will not carry out the metal handling works in early morning in order to minimize potential noise disturbance as far as practicable in future.	Closed	-
COM-2013-027	29-Jun-2013	10:02 hrs	RSS	Environmental (Noise)	A complaint was received on 29 June 2013 regarding noise generated from the works area near the site office (WA6) around 10:00 hrs on 29 June 2013	WA6	The Contractor was recommended to minimize the potential noise impacts generated from the construction sites as far as practicable in future.	Closed	-
COM-2013-033	13-Sep-2013	Around 22:00 hrs	RSS	Environmental (Noise)	A complaint was received regarding the noise nuisance from barge at about 22:20 hrs on 13 September 2013 and 02:30 hrs on 14 September 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - Minimized the quantities of plant used after 7pm as far as practicable; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	-
COM-2013-034	17-Sep-2013	--	HyD	Environmental (Noise)	A complaint was received on 17 September 2013 regarding the noise nuisance from tree transplanting activities in the morning of 14 September 2013.	Portion Y	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - Minimized the quantities of plant used after 7pm as far as practicable; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	-
COM-2013-037	8-Oct-2013 9-Oct-2013 16-Oct-2013	--	Supervising Officer's Representative	Environmental (Noise)	The complainant complained the noise from barge operation from 21:30 to 22:30 hrs on 4 October 2013. The complainant complained that several loud bangs were heard starting from 21:00 hrs on 7 October 2013. The complainant complained that it was very noisy at the noon of 14 October 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: -minimize the quantities of plant used during restricted hours as far as practicable; and -regular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during restricted hours.	Closed	-

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COM-2013-041	31-Oct-2013	21:52 hrs	EPD	Environmental (Noise)	A complaint was received on 31 October 2013 regarding the noise generated from a barge being moved by a tug boat in the morning of 31 October 2013 (around 05:55).	N/A	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during the night-time and early morning period (7pm to 7am).	Closed	-
COM-2013-043	11-Nov-2013	--	EPD	Environmental (Noise)	A complaint was received on 11 November 2013 regarding a barge moving through the southern channel of HyD's construction site after 23:00 hrs on 8 November 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during restricted hours.	Closed	-
COM-2013-045	27-Dec-2013	--	HyD	Environmental (Noise)	A complaint was received on 27 December 2013 regarding barges operating at the south channel of Portion X in the afternoon of 26 December 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during restricted hours.	Closed	-
COM-2014-046	16-Jan-2014	17:22 hrs	HyD	Environmental (Air Quality)	A complaint was received on 16 January 2014 regarding heavy exhausts generated at around 8 a.m. and 10 a.m. over past few months and or even midnight.	N/A	The Contractor has implemented the following measure to minimize exhaust fumes generated from machinery: - Maintenance for the all machinery regularly.	Closed	-
COM-2014-048	18-Jan-2014	--	EPD	Environmental (Other: Blackish mud)	A complaint was received on 18 January 2014 regarding blackish mud along the edge of the construction site of Hong Kong-Zhuhai-Macao Bridge Hong Kong Project near the airport in the morning of 18 January 2014.	Portion X	Based on the investigation results, it is considered that the blackish mud raised in the complaint was not related to HKLR03 Contract. In this case, no follow up action is required.	Closed	-
COM-2014-050	24-Mar-2014	--	EPD	Environmental (Other: Dredged Marine Sediment)	A complaint was received by EPD on 24 March 2014. The complainant advised that there was dredged material found being mixed with soil in the construction site of Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road Project in the vicinity of CAD headquarters and transported out of the site. The complainant suspected that there was improper disposal of dredged marine sediment.	Portion X	Based on the investigation results, it is considered that the complaint is invalid. In this case, no follow up action is required.	Closed	-
COM-2014-051	29-Apr-2014	--	SOR	Environmental (Noise)	A complaint was received on 29 April 2014 regarding loud bang coming from the site at 21:37 hrs on 28 April 2014.	Portion X	Based on the Contractor's site dairy and our investigation, no non-compliance was identified.	Closed	-
COM-2014-053	02-May-2014	--	EPD	Environmental (Noise)	A complaint was received by EPD on 1 May 2014. The complainant advised that there was noise nuisance arising during the evening of 1 May 2014.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plant during restricted hours.	Closed	-
COM-2014-063	03-Dec-14	--	Arup	Environmental (Noise)	According to Arup's email to CSCE and DCVJV on 3 December 2014, "A resident living in Le Bleu Duex addressed a complaint to CE of HyD at about 20:04 hrs last night. He complained about the noise nuisance coming from site office since 19:30 hrs last night. epetitively metal parts had been dropped on the ground by people who seem to be loading or unloading a boat at the pier. Noise was still going on right now at 20:04."	WA6	Based on the investigation results, it is found that the noise complaint is not related to Contract No. HY/2011/03. In this case, no follow up action is required.	Closed	-

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COM-2014-065	24-Dec-14	Nil	EPD	Environmental (Water Qulity)	A complaint was received on 24 December 2014 regarding the increase of marine refuse (water bottles and debris) along the shore from Yat Tung to Tai O, where the complainant considered might be in relation to the HZMB project(s).	Portion X	Based on the investigation results, it is considered that the complaint is unlikely related to HKLR03 Contract. Nevertheless, the Contractor is reminded to implement all recommended mitigation measures for waste management and avoid dumping rubbish into the sea.	Closed	-
COM-2015-066	08-Apr-15	Nil	EPD (An email forwarded by Arup)	Environmental (Dust)	According to Arup's email to CSCE on 8 April 2015, the ET was informed that a complaint had been received by EPD at about 18:29 hrs on 2 Apr 2015 regarding construction dust from construction site (S15) at Kwo Lo Wan Road, Tung Chung."	S15	Based on the Contractor's information and our investigation, no non-compliance was identified. The Contractor is reminded to continuously implement the dust suppression measures to minimize potential dust impact.	Closed	-
COM-2015-068	10-Apr-15	Nil	EPD (An email forwarded by Arup)	Environmental (Noise)	According to Arup's email to CSCE on 10 April 2015, it is noted that EPD received a noise complaint from a resident of Caribbean Coast. According to the complainant, he was disturbed by noise from construction activities of the HZMB Project during weekends and holidays. The complainant was referring to those activities carried out between Scenic Hill and HKBCF because the complainant mentioned the contractor was China State.	N/A	Based on the information provided and our investigation, the Contractor had complied with the conditions laid down in Construction Noise Permit (CNP) Nos. GW-RS0113-15 and GW-RS0356-15. Hence, no non-compliance was identified. The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours and recommended to implement the following measures to minimize the potential noise impact during restricted hours: minimize the quantities of plant used during restricted hours as far as practicable; and regular review of working duration for restricted hours works and switch off all unnecessary machinery and plant during restricted hours.	Closed	-
COM-2015-074	16-Jul-15	Nil	EPD	Environmental (Wastewater)	According to EPD's email to Highways Department, ET, SOR and ENPO, a complaint was received on 16 July 2015 regarding wastewater splashing from vehicles to pedestrian at Tung Fai Road. The complainant complained that wastewater was splashed to people waiting at the bus stop near Civil Aviation Department Headquarters Office Building when vehicles leaving the HZMB site to Tung Fai Road.	Tung Fai Road	Based on the investigation results, it is considered that the complaint is unlikely related to HKLR03 Contract. The Contractor has been reminded to slow down their vehicles when leaving the concerned construction site.	Closed	-
COM-2015-076	17-Jul-15	Nil	EPD (An email forwarded by ENPO)	Environmental (Noise)	According to EPD's email to ENPO on 17 July 2015, it is noted that EPD received a noise complaint from public. The complainant said that he/she was disturbed by the noise generated from construction sites of the HZMB Project during the daytime period of past few Sundays. Afterwards, EPD contacted the complainant and confirmed that the noise was generated from construction sites along Kwo Lo Wan Road and signs of "China State Construction Engineering (HK) Ltd" were noted.	Kwo Lo Wan Road	Based on the information provided and our investigation, the Contractor complied with the conditions laid down in Construction Noise Permit (CNP) Nos. GW-RS0733-15 and GW-RS0740-15 and no noncompliance was found. The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours and recommended to implement the following measures to minimize the potential noise impact during restricted hours: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plant during restricted hours.	Closed	-
COM-2015-079	07-Dec-15	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Water Quality)	According to ENPO's email to SOR and ET on 7 December 2015, a complaint was received by EPD on 2 December 2015 regarding water quality near HKLR work site. The complainant mentioned that "I moved to Tung Chung since July and it was the second time I saw similar situation polluting the sea. Last time it was even worse in red colour. Please look into this matter and let me know what was being dropped into the sea and whether it was hazardous to the sea.". EPD has contacted the complainant and obtained the additional information from the complainant. EPD suspected that the incident happened in the afternoon on 28 November 2015.	Portion X	According to the information provided by the Contractor, the derrick barge belongs to Contract No. HY/2011/03. The concerned sediment plume was likely to be caused by stirring up of mud in the seabed by the derrick barge sailed at the navigation channel situated at shallow water zone where the water depth ranging from 3.25m – 3.75m. Public fill materials were placed on the derrick barge. The barge was in good conditions with no materials being dumped into the sea. The Contractor has been implementing the mitigation measure as specified in the Implementation Schedule of Environmental Mitigation Measures that is all vessels to be sized such that adequate clearance 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. The Contractor is recommended to arrange vessels to move out of the site area during high tide to avoid the disturbance to the seabed as far as practicable and deploy marine vessels effectively in order to minimize the number of trips and disturbance to seabed in shallow waters.	Closed	-
COM-2016-087	28-Jun-16	Nil	EPD	Environmental (Water Quality)	According to EPD's email, a complaint was received on 28 June 2016 regarding polluted water discharge incident opposite to Tung Chung Development Pier.	N/A	The Contractor has designated competent persons to operate, check and maintain individual wastewater treatment plant as an existing control measures. In case of breakdown of wastewater treatment plants, no discharge of wastewater will be allowed until repair is completed to resume the normal operation of the treatment plant. Specific toolbox / refreshment training trainings have been providing for the staff and workers for each of the wastewater treatment plants. The Contractor has been reminded to implement the above control measures and ensure no untreated wastewater will be discharged into open channel.	Closed	-
COM-2016-098	11-Nov-16	16:33	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Water Quality)	According to ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 11 November 2016, it is noted that EPD received a complaint lodged by a member of the public regarding sediment plume generated by a vessel named "長盛308 (Chang Sheng 308)" during the vessel travelling from construction site of Hong Kong- Zhuhai- Macao Bridge near Scenic Hill to Tung Chung New Development Ferry Pier.	Portion X	The Contractor has been reminded to schedule the vessel to move in / out of the construction site during higher tide and minimize number of trips to avoid the stirring up of the seabed mud when the vessel travelling in very shallow water areas as much as practicable. Also, the Contractor was reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule (EMIS).	Closed	-

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COM-2016-099	02-Dec-16	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Other: Slurry on public road)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 2 December 2016 that EPD received a complaint lodged by a member of the public regarding slurry on East Coast Road. The complainant considered the slurry might relate to the construction site of China Harbour Engineering Company Limited next to a hotel.	East Coast Road	During the weekly site inspection undertaken on 7 December 2016, no slurry was observed at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03. The Contractor has constructed wheel washing facilities at all the site accesses, including the one near the site access of China Harbour Engineering Company Limited next to the Marriott Hotel (which is believed to be the hotel mentioned by the complainant), to wash and clean all vehicles before allowing them to leave the construction site to ensure that no mud or other debris would be brought to the public area. In addition, regular watering is conducted by water truck at least twice per day at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03 to minimize dust emission. Based on the investigation results, it is considered that the complaint unlikely related to Contract No. HY/2011/03. Notwithstanding that, the Contractor has been reminded to clean wheels and body of vehicles as usual before allowing them to leave construction site.	Closed	-
COM-2016-100	14-Dec-16	Nil	ENPO (Contract No. HY/2010/02 project team received an environmental complaint referred by Government's hotline (1823) on 2 December 2016. ENPO forwarded the Complaint to Contract No. HY/2011/03.)	Environmental (Other: mud/ derbris on public road)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 14 December 2016 that EPD received a complaint lodged by a member of the public regarding mud/debris on public road. The complainant complained that "the whole stretch of East Coast Road & Tung Fai Road is truly disgusting. The stone debris big and small and the mud is a nuisance to those who use the road every day. When dry there is a lot of dust and when it rains or when the road washing trucks are out it becomes a muddy mess. Cars and pedestrians are covered in dust or mud, cars are hit by stones is a daily hazard. Washing of construction vehicles is inadequate as the sand and soil is carried out onto the roads. Oversight of road conditions are not carried out by the Airport Authority. An alternative route should be created for the large number of construction vehicles as they drive fast.".	East Coast Road and Tung Fai Road	During the ET's inspection on 7 December 2016 (weekly routine inspection) and 16 December 2016, no mud or debris was observed at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03 as well as the section of Tung Fai Road leading to the site access of Contract No. HY/2011/03. The Contractor provided wheel washing facilities at all the site accesses, including the one accessing East Coast Road and the one accessing Tung Fai Road, to wash and clean all vehicles before allowing them to leave the construction site to ensure that no mud or debris would be brought to the public area. It was observed that the areas of the wheel washing facilities and the respective road section between the wheel washing facilities and the site accesses of East Coastal Road and of Tung Fai Road were paved with concrete. High pressure jets were also provided at the wheel washing facilities for cleaning of vehicles before the vehicles were allowed to leave the construction site. In addition, regular watering at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03 was conducted by water trucks at least twice per day to minimize dust emission. Based on our investigation result, it is considered that the complaint is unlikely related to Contract No. HY/2011/03. Notwithstanding that, the Contractor has been reminded to clean the wheels and body of vehicles as usual before allowing them to leave construction site.	Closed	-
COM-2016-103	14-Dec-16	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Noise)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 14 December 2016 that EPD received a noise complaint lodged by a member of public. The complaint was about hammering noise generated from construction sites at midnight in the past month. The complainant could not identify the source but suspected that the noise was generated from HZMB Project. It was also noted from ENPO's email on 21 December 2016 that EPD supplemented that the complainant lives in Seaview Crescent. The complainant sometimes heard noise created by impacting metals or metal/ground, particularly in December 2016.	N/A	The Contractor confirmed that no hammering works was conducted and no impact noise was generated at midnight in November 2016 and December 2016. The Contractor complied with the conditions laid down CNP No. GW-RS740-16 and no non-compliance was found. Based on our investigation result, it is considered that the complaint is unlikely related to Contract No. HY/2011/03. In this case, no follow up action is required. However, the Contractor has been reminded to comply with the conditions stipulated in the Construction Noise Permit for construction works undertaken during restricted hours and has been recommended to implement the following measures to minimize the potential noise impact during restricted hours: - minimize the number of machinery and plant used during restricted hours as far as practicable; - regularly review the working duration for restricted hours works; and - switch off all unnecessary machinery and plant during restricted hours.	Closed	-
COM-2017-104	09-Jan-17	Nil	IEC (EPD referred the email from Complainant to IEC)	Environmental (Other: Cleanliness problem at East Coast Road and Tung Fai Road)	It was noted from IEC's email to the Environmental Team, Supervising Officer's Representative and Contractor on 9 January 2017 that EPD received a complaint lodged by a member of the public (a bus operator at the HKIA) regarding cleanliness problem at East Coast Road and Tung Fai Road.	East Coast Road and Tung Fai Road	During the ET's inspection on 10 January 2017, it was observed that the Contractor provided wheel washing facilities at all the site accesses, including the one accessing East Coast Road and the one accessing Tung Fai Road, to wash and clean all vehicles before allowing them to leave the construction site to ensure that no mud or debris would be brought to the public area. No mud was observed at the section of Tung Fai Road leading to the site access of Contract No. HY/2011/03. However, some mud was observed at the section of East Coast Road adjoining the site boundary of Contract No. HY/2011/03. Based on our investigation result, although there is no direct evidence showing that the complaint is related to Contract No. HY/2011/03, the Contractor has been reminded to clean the wheels and body of vehicles as usual before allowing them to leave construction site. Road sweeper will be employed to sweep along the East Coast Road twice per week and remove the deposited mud underneath the water-filled barrier to facilitate the road-washing water to be drained away from the carriageway. It should be of note that the ground level of site boundary of HY/2011/03 adjoining the East Coast Road is lower than that of East Coast Road and the Site of HY/2011/03 receives unidirectional flow of surface runoff from the East Coast Road. In addition, the following measures will be implemented to enhance dust suppression: 1. Stockpile along East Coast Road will be reduced in height and compacted as far as practicable 2. Haul road will be demarcated to prevent vehicles from going into non-wetted surface. 3. Site access S16 will be thoroughly cleaned and all vehicles will be stopped for second washing after being washed in the wheel washing bay. 4. Water sprinklers will be installed and operated at the stockpiles behind the water-filled barriers along East Coast Road.	Closed	-
COM-2017-108	23 February 2017 and 2 March 2017	Nil	Airport Authority Hong Kong (AAHK) via SOR / Referred to ENPO by HyD	Environmental (Air quality, Water quality and Other: Cleanliness problem at East Coast Road)	AAHK stated in their email to SOR on 23 February 2017 that there was sand/muddy water accumulating along the water barriers at East Coast Road Southbound. AAHK also lodged a complaint to HyD, which HyD referred to ENPO on 1 March 2017 (received by ET on 2 March 2017). AAHK reported that the cleanliness of East Coast Road remained unsatisfactory with dust all over the water barriers/traffic aids, and sands accumulating along the carriageway.	East Coast Road	During ET's observation on 3 and 13 March 2017, properly functioning wheel washing facilities were provided to wash all vehicles prior to leaving the site. The section of road between the wheel washing facilities and the site access (S25) was hard paved and no mud/ silt was observed at the concerned road section and the site access. As the ground level of site boundary of HY/2011/03 adjoining the East Coast Road is lower than that of East Coast Road, the possibility of muddy water seepage from S25 to East Coast Road is low.Based on our investigation result, the complaint is unlikely to be related to Contract No. HY/2011/03. Nevertheless, the Contractor has been reminded to strictly upkeep the proper practice of washing all vehicles leaving the site access (S25). Also, the Contractor has raised the majority of the temporary traffic signs to a higher level to avoid muddy water splashing on them. Also, the temporary traffic signs will be cleaned regularly.	Closed	-

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COM-2017-112	27 March 2017	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Noise and Water quality)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 28 March 2017 that EPD received a noise complaint lodged by a resident of Century Link on 27 March 2017. The complaint was about "昨晚 (i.e. 26 March 2017) 大約十時起，屋外間歇有非常響亮聲音，經觀察應該是從港珠澳大橋近人工島的工程發出，噪音一直至深夜。另今早發現住處對出海面受到一大遍污染（見相片）。以上都應該是大橋工程所造成的污染"i.e. "At around ten o'clock last night (i.e. 26 March 2017), there was intermittent very loud voice outside. According to observation, the noise should be from the Hong Kong-Zhuhai-Macao Bridge project near the artificial island, the noise lasted until late at night. In this morning, there was a plume of pollution found on the sea (see photo). These should be caused by the bridge project.".	Nil	Based on the information provided by the Contractor and our investigation, it was concluded that the Contractor had complied with the conditions laid down in CNPs No. GW-RS-1135-16 and GW-RS0016-17 and that no non-compliance on water quality was found. It is considered that the complaint is unlikely related to Contract No. HY/2011/03. In this case, no follow up action is required. However, the Contractor has been reminded to comply with the conditions stipulated in the Construction Noise Permit for construction works undertaken during restricted hours and has been recommended to implement the following measures to minimize the potential noise impact during restricted hours: - minimize the number of machinery and plant used during restricted hours as far as practicable; - regularly review the working duration for restricted hours works; and - switch off all unnecessary machinery and plant during restricted hours. The Contractor was also reminded to schedule, according to the predicted tides of the Hong Kong Observatory, their working vessels to travel to and from work site at high tide in order to reduce the sediment plume at shallow water areas.	Closed	-
COM-2017-113	20-Apr-17	Nil	ENPO (EPD referred the email from Complainant to ENPO)	Environmental (Water quality)	It was noted from ENPO's email to the Environmental Team, Supervising Officer's Representative and Contractor on 20 April 2017 that EPD received a complaint on 19 April 2017 lodged by a green group. The complaint was about "本會XXX投訴港珠澳大橋承辦商於２０１５年設置隔泥網的方向不當，產生污染。而圖片是由路政署提供，是具確圖片。本會期望環保署調查圖片中的情況，並對承辦商作出警告，以及要求承辦商準確放置現時的隔泥網，確保其雙重設計是有效。"	Portion X	Based on the information provided by the Contractor and ET's investigation, It was suspected that the concerned silt plume may be caused by sea current. There was no evidence that the concerned silt plume was caused by any activities arising from the Contract. The Contractor was reminded once again to implement the mitigation measure as specified in the Implementation Schedule of Environmental Mitigation Measures. The Contractor is also recommended to fully and properly maintain the silt curtain throughout the works in accordance with the requirements in the Updated EM&A Manual through undertaking monthly measurement on the overlapping and separation openings for vessels access for prompt rectification.	Closed	-
COM-2017-095(3)	27-May-17	Nil	SOR (HyD referred the email from Complainant to SOR)	Environmental (Noise)	It was noted from SOR's email to the Environmental Team and Contractor on 26 May 2017 that HyD received a complaint on 12 May 2017 lodged by a member of public. The complaint was about "We'd like to follow up on this case. Pls help take pictures & point out to us where your noise barriers are located. If those seen in the attached pics are so-called noise barriers, then we believe the contractor needs a lot of improvement in helping to reduce this noise pollution".	Near Dragonair / CNAC (Group) Building (HKIA)	Upon the receipt of the complaint in May 2017, the Contractor had been instructed to immediately install additional noise barriers at the appropriate location and cover the breaker tip with acoustic materials as noise mitigation measure against the noise emission associated with the aforesaid construction activities. Moreover, the noise barriers have been located as close as possible to the noise source (rock breaking work). Also, gaps and openings at joints in the barrier material have been minimized. The rock breaking work was completed on 31 May 2017 and the rock breaking machine had been demobilized off site. According to information from Contractor, removal C&D materials will be carried out at the site near CAD and CNAC buildings in the future. As such, noise nuisance generated from a site will be minimized. Notwithstanding that, the Contractor has been reminded to implement noise mitigation measures on the site to minimize any potential nuisance to the public. Based on our investigation result, it is considered that the complaint is likely related to Contract No. HY/2011/03. The Contractor has implemented the following measures to minimize the potential noise impact: - Additional noise barriers have been erected in the active working area to further mitigate the associated noise emissions as far as practicable; - Cover the breaker tip with acoustic material. - Noise barriers have been located as close as possible to the noise source. Also, gaps and openings at joints in the barriers material have been minimized. - Speed up of construction works in order to shorten the duration noise impact/nuisance to the surrounding. - Minimize the quantities of noisy plant as far as practicable. - Regular review of working duration and switch off all unnecessary machinery and plant.	Closed	-

APPENDIX K

Environmental Licenses and Permits

Summary of Environmental Licences and Permits Application and Status

Environmental Permit

Date Application Submitted	Status	Date EP Issued	EP No.	EP Holder	Expiry Date
04.12.2014	VEP issued	22.12.2014	EP-352/2009/D	Highways Department	N/A
24.03.2016	VEP Issued	11.04.2016	EP-353/2009/K	Highways Department	N/A

Notification of Carrying Out Notifiable Works under Air Pollution Control (Construction Dust) Regulation

Date Notification Submitted	Notification Ref. No.	Valid Since	Expiry Date
25.05.2012	345690	01.06.2012	N/A

Notification of Carrying Out Notifiable Works under Air Pollution Control (Construction Dust) Regulation Form NB

Date Notification Submitted	Notification Ref. No.	Valid Since	Expiry Date
31.07.2015	391702	31.07.2015	N/A

Billing Account for Disposal of Construction Waste

Date Application Submitted	Account No	Valid Since	Expiry Date
01.06.2012	7015313	27.06.2012	N/A

Chemical Waste Producer Registration

Date Registration Submitted	Waste Producer No.	Date Registration Issued	Major Waste Type	Expiry Date
20.06.2012	5213-950-C1169-43	12.07.2012	Spent lubricating oil, spent flammable liquid (diesel), surplus paint, spent organic solvent and their containers, spent batteries, soil containing mineral oil	N/A

Wastewater Discharge License

Item No.	Date Application Submitted	Area Applied	Status	Expiry Date
1	22.06.2012	Site Office for Supervising Officer (WA6)	Application Ref. No. 346651 Letter from the EPD (Ref: EP/RS/0000346267) dated 19.07.2012 confirming that license under WPCO is not required.	N/A
2	04.07.2012	Site Office for China States (WA6)	Application Ref. No. 346982 Water Discharge License WT00014182-2012 was granted on 20 Sep 2012	Valid until 30/09/2017
3.	31.07.2012	Portion B, Portion X & Portion Y	Application Ref. No. 348019 Water Discharge License WT00014118-2012 was granted on 20 Sep 2012	Valid until 30/092017
4.	15.01.2013	WA 3	Application Ref No.356237 Water Discharge License Ref. WT00015423-2013 was granted on 4 Mar 2013	Valid until 31/03/2018
5.	15.01.2013	WA 4	Application Ref No. 356240 Water Discharge License Ref. WT00016158-2013 was granted on 30 Jul 2013	Valid until 31/07/2018
6	02.04.2013	Airport Road (Southern)	Water discharge license Ref. WT00015866-2013 was granted on 29 Apr 2013	Valid until 30/04/2018
7	26.10.2015	Airport Road (Northern)	Water discharge license Ref. WT00023165-2015 was granted on 21 Dec 2015	Valid until 30/04/2018
8	10.03.2017	WA7	Application Ref. No. 414487 Water Discharge License Ref. WT00015865-2013 was granted on 13 Jun 2017	Valid until 30/6/2022

Construction Noise Permit

Item No.	Date Application Submitted	Works Area Applied	Description	Status	CNP No.	Validity of CNP	
						From	To
1.	09.01.2017	SHT & HAT	Percussive Pilling	CNP issued on 13.01.2017	PP-RS0002-17 (Superseded by Item No. 2)	23.01.2017 0700	22.07.2017 1900
2.	04.07.2017	SHT & HAT	Percussive Pilling	CNP issued on 18.07.2017	PP-RS0014-17	24.07.2017 0700	20.01.2018 1900
3.	20.04.2017	Reclamation Area	Marine Works	CNP issued on 08.05.2017	GW-RS0411-17	10.05.2017 1900	02.11.2017 2400
4.	05.04.2017	Airport Road	Road Works	CNP issued on 19.04.2017	GW-RS0361-17	01.05.2017 0000	30.10.2017 0700
5.	24.02.2017	Shaft 4	Tunnel Works	CNP issued on 10.03.2017	GW-RS0186-17	14.03.2017 2400	13.09.2017 1900
6.	10.03.2017	WA4	Loading/Unloading of stockpiles	CNP issued on 24.03.2017	GW-RW0149-17	30.03.2017 0000	29.09.2017 2400
7.	10.03.2017	WA3	Stockpiling/wastewater treatment	CNP issued on 24.03.2017	GW-RS0270-17	28.03.2017 0000	27.09.2017 2400
8.	20.04.2017	West Portal	Tunnel / Building Works	CNP issued on 08.05.2017	GW-RS0410-17	09.05.2017 0000	08.11.2017 2400

Item No.	Date Application Submitted	Works Area Applied	Description	Status	CNP No.	Validity of CNP	
						From	To
9.	18.04.2017	Shaft 1-3	Tunnel works	CNP issued on 08.05.2017	GW-RS0409-17	10.05.2017 1900	02.11.2017 0700
10.	30.12.2016	Shaft 2-3	Box-Jacking	CNP issued on 12.01.2017	GW-RS0016-17	19.01.2017 0000	18.07.2017 0500
11.	30.12.2016	Airport Road	Maintenance Works (Special Case)	CNP issued on 05.01.2017	GW-RS0006-17 (Superseded by Item No. 12)	05.01.2017 1900	30.06.2017 0700
12.	26.06.2017	Airport Road	Maintainance Works (Special Case)	CNP issued on 10.07.2017	GW-RS0581-17	12.07.2017 1900	31.12.2017 0700

APPENDIX L

Implementation Schedule of Environmental Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
Air Quality							
S5.5.6.1	A1	1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	Partially implemented
S5.5.6.2	A2	2) Proper watering of 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 extend 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;	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	Partially Implemented
S5.5.6.2	A2	• When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided 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;	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S5.5.6.2	A2	• 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 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; • Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; • Any skip hoist for material transport should be totally enclosed by impervious sheeting; • Every stock of more than 20 bags of cement or dry pulverized fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	Partially implemented
S5.5.6.2	A2	• Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; • 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; and • Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S5.5.6.3	A3	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	Control construction dust	Contractor	All construction sites	Construction stage	√
S5.5.6	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period	Contractor	Selected representative dust monitoring station	Construction stage	√
S5.5.71	A6	The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant: • Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; • All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; • Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; • The materials which may generate airborne dusty emissions should be wetted by water spray system; • All receiving hoppers should be enclosed on three sides up to 3m above unloading point; • All conveyor transfer points should be totally enclosed; • All access and route roads within the premises should be paved and wetted; and • Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body.	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period	Contractor	Selected representative dust monitoring station	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S5.5.2.7	A7	The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point: • All road surface within the barging facilities will be paved; • Dust enclosures will be provided for the loading ramp; • Vehicles will be required to pass through designated wheels wash facilities; and • Continuous water spray at the loading points.	Control construction dust	Contractor	All construction sites	Construction stage	√
Noise							
S6.4.10	N1	1) Use of good site practices to limit noise emissions by considering the following: • only well-maintained plant should be operated on-site 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 officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.	Control construction airborne noise by means of good site practices	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S6.4.11	N2	2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the 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	√
S6.4.12	N3	3) Install movable noise barriers (typically density @ 14kg/m_2),acoustic mat or full enclosure close to noisy plants including air compressor, generators, saw.	Screen the noisy plant items to be used at all construction sites	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	√
S6.4.13	N4	4) Select .Quiet plants. which comply with the BS 5228 Part 1 or TM standards.	Reduce the noise levels of plant items	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	√
S6.4.14	N5	5) 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	√
	N6	6) Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected representative noise monitoring station	Construction stage	√
Waste Management (Construction waste)							
S8.3.8	WM1	<u>Construction and Demolition Material</u> The following mitigation measures should be implemented in handling the waste: • 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	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	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
		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 • 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. • In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation					
S8.3.9-S8.3.11	WM2	C&D Waste • Standard formwork or pre-fabrication should be used as far as practicable in order to minimise 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	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S8.2.12-S8.3.15	WM3	Chemical Waste • Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in 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 liters unless the specification has been approved by the 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 labeled 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 the EPD.	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S8.3.16	WM4	*Sewage* • Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state, which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly.	Proper handling of sewage from worker to avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	√
S8.3.17	WM5	*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. • Aluminium 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. In addition, waste separation facilities for paper, aluminum cans, plastic bottles etc., should be provided. • Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes.	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	Partially implemented

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
Water quality (Construction Phase)							
S9.11.1-S9.11.1.2	W1	• Mitigation during the marine works to reduce impacts to within acceptable levels have been recommended and will comprise a series of measures that restrict the method and sequencing of filling work, as well as protection measures. Details of the measures are provided below and summarised in the Environmental Mitigation Implementation Schedule in EM&A Manual. • Construction of seawalls to be advanced by at least 100-200m before the filling can commence. It should be noted that the protection by advanced seawall is a dynamic process depending on the progress of the construction activities. The part of the works where such measures can be undertaken for the majority of the time includes the following locations: - TMCLKL northern reclamation; - TMCLKL southern reclamation (after formation of the nips); - Reclamation filling for Portion 1 of HKLR;	To control construction water quality	Contractor	During seawall filling	Construction stage	√
S9.11.1-S9.11.1.2	W1	• Single layer silt curtains will be applied around all works; • silt curtain shall be fully maintained throughout the works.	To control construction water quality	Contractor	During seawall filling	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S9.11.1-S9.11.1.2	W1	• excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; • all vessels shall be sized such that adequate clearance 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; and • the works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.	To control construction water quality	Contractor	During seawall filling	Construction stage	√
S9.11.1-S9.11.1.2	W1	• Mechanical grabs shall be designed and maintained to avoid spillage and should seal tightly while being lifted; • barges shall have tight fitting seals to their bottom openings to prevent leakage of material; • any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; • loading of barges shall be controlled to prevent splashing of filling materials to the surrounding water. • Barges shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; • adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; • all vessels shall be sized such that adequate clearance 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; and • the works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site .	To control construction water quality	Contractor	During seawall filling	Construction stage	Partially implemented

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
		into the drainage system, and to prevent storm run-off from getting into foul sewers; •discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.					
S9.14	W3	•Implement a water quality monitoring programme	Control water quality	Contractor	At identified monitoring	During construction	√
Ecology (Construction Phase)							
S10.7	E1	•Good site practices to avoid runoff entering woodland habitats in Scenic Hill; •Reinstate works areas in Scenic Hill; •Avoid stream modification in Scenic Hill.	Avoid potential disturbance on habitat of Romer.s Tree Frog in Scenic Hill	Designer; Contractor	Scenic Hill	During construction	√
S10.7	E2	•Install silt curtain during the construction; •Construct seawall prior to reclamation filling where practicable; •Good site practices; •Site runoff control; •Spill response plan.	Minimise marine water quality impacts	Contractor	Seawall, reclamation area	During construction	√
S10.7	E4	•Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater.	Prevent Sedimentation from Land-based works areas	Contractor	Land-based works areas	During construction	√
S10.7	E5	•Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time	Prevent disturbance to terrestrial fauna and habitats	Contractor	Land-based works areas	During construction	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S10.7	E6	•Dolphin Exclusion Zone; •Dolphin watching plan .	Minimize temporary marine habitat loss impact to dolphins	Contractor	Marine works	During marine works	√
S10.7	E7	•Decouple compressors and other equipment on working vessels; • Avoidance of percussive piling; •Marine underwater noise monitoring; •Temporal suspension of drilling bored pile casing in rock during peak dolphin calving season in May and June; •Handling with care for the installation of sheet piling for reclamation site	Minimize temporary marine habitat loss impact to dolphins	Contractor	Marine works	During marine works	√
S10.7	E8	•Control vessel speed; •Skipper training; •Predefined and regular routes for working vessels; avoid Brothers Islands.	Minimise marine traffic disturbance on dolphins	Contractor	Marine traffic	During marine works	√
S10.10	E9	•Dolphin vessel monitoring; • Mudflat ecological monitoring.	Minimise marine traffic disturbance on dolphins	Contractor	North Lantau and West Lantau	Prior to construction, during construction, and 1 year after operation	√
Ecology (Operation Phase)							
S10.7	E10	•Preconstruction dive survey for corals	Minimise impacts on marine ecology	Contractor	The marine pier sites nearest to intertidal zone and along the shore of the HKLR eclamation site	Prior to marine construction works in these locations	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
Fisheries							
S11.7	F2	•Reduce re-suspension of sediments •Good site practices •Spill response plan	Minimise marine water quality impacts	Contractor	Seawall, reclamation area	During construction	√
S11.7	F3	•Install silt-grease trap in the drainage system collecting surface runoff	Minimise impacts on marine water quality impacts	Designer	Reclamation area	During construction	√
S11.7	F4	•Maritime Oil Spill Response Plan (MOSRP); •Contingency plan.	Minimise impacts on marine water quality impacts	Management	HKLR	During operation stage	√
Landscape & Visual (Detailed Design Phase)							
S14.3.3.1	LV1	General design measures include: •Roadside planting and planting along the edge of the reclamation is proposed; •Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting; •Protection measures for the trees to be retained during construction activities; •Optimizing the sizes and spacing of the bridge columns; •Fine-tuning the location of the bridge columns to avoid visually sensitive locations; •Aesthetic design of the bridge form and its structural elements for HKLR, e.g. parapet, soffit, columns, lightings and so on; Considering the decorative urban design elements for HKLR, e.g. decorative road lightings;	Minimise visual & landscape impact	Detailed designer	HKLR	Design stage	.

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
		• Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed; • Providing planting area around peripheral of HKLR for tree planting screening effect.					
S14.3.3.1	LV1	• Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline. • Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline. • For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and • reclamation (e.g. subtle colour tone and slim form for viaduct to minimize the bulkiness of the structure and to blend the viaduct better with the background environment, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment (refer to Figure 14.4.3).	Minimise visual & landscape impact	Detailed designer	HKLR	Design stage	-
Landscape & Visual (Construction Phase)							
S14.3.3.3	LV2	Mitigate both Landscape and Visual Impacts G1. Grass-hydroseed bare soil surface and stock pile areas. G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge or footbridge to screen bridge and traffic. G3. For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and reclamation (e.g. subtle colour tone and slim form for viaduct, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment. G4. Vegetation reinstatement and upgrading to disturbed areas.	Minimise visual & landscape impact	Contractor	HKLR	Construction stage	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
		G5. Maximize new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed. G6. Provide planting area around peripheral of and within HKLR for tree screening buffer effect. G7. Plant salt tolerant native tree and shrubs etc along the planterstrip at affected seawall. G8. Reserve of loose natural granite rocks for re-use. Provide new coastline to adopt .natural-look. by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance .natural-look. of the new coastline (see Figure 14.4.2 for example).					
S14.3.3.3	LV3	Mitigate Visual Impacts V1.Minimize time for construction activities during construction period. V2.Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKLR construction.					√
EM&A							
S15.5-S15.6	EM2	1) An Environmental Team needs to be employed as per the EM&A Manual. 2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. 3) An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.	Perform environmental monitoring & auditing	Contractor	All construction sites	Construction stage	√

APPENDIX M

Record of "Notification of Environmental Quality Limit Exceedances" and
Record of "Notification of Summons and Prosecutions"

Contract No. HY/2011/03 -
Hong Kong- Zhuhai- Macao Bridge
Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Notifications of Environmental Quality Limits Exceedances Notification No.: 241s ver 1

Date of Notification: 9 August 2017

Works Inspected: Data collected from water sampling works on 12 July 2017 by Contract No. HY/2010/02 and Contract No. HY/2011/09.

Monitoring Location: Water Quality Monitoring Station

Parameter: ~~Dissolved Oxygen (DO)/~~ Suspended Solid (SS)/ ~~Turbidity (TURB)~~

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	SR3	DA	**23.5** and 120% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2: 3.95 x 120% = **4.7** for mid ebb AND CS(Mf)5: 14.02 x 120% = **16.8** for mid flood)	**34.4** and 130% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2: 3.95 x 130% = **5.1** for mid ebb AND CS(Mf)5: 14.02 x 130% = **18.2** for mid flood)	***24.7***	18.0

Notes:
1) DA means depth average.
2) ***Bold Italic*** means AL exceedances.
3) ***Bold Italic with underline*** means LL exceedances.
4) The monitoring data of water quality monitoring for stations SR3 and CS(Mf)5 were adopted from the published EM&A data of Contract No. HY/2010/02. The data are available at a website: http://www.hzmbenpo.com/
5) The monitoring data of water quality monitoring for station CS2 was adopted form the published EM&A data of Contract No. HY/2011/09. The data are available at a website: http://www.hzmbenpo.com/

Possible reason for Action Level Non-compliance:

On 12 July 2017, an Action Level exceedance of suspended solid was recorded at station SR3 during mid-ebb tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

1. Removal of surcharge, road and drainage construction at Zones 1 and 2; seawall construction at Zones 2 and 3; box culvert construction at Zone 2; and transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.

2. The ranges of suspended solid at station SR3 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide			Range of Suspended Solid (mg/L) Mid-Flood Tide		
SR3	6.7	to	31	7.6	to	28

The measured value for mid-ebb tide at station SR3 was within the range of suspended solid for mid-ebb tide during baseline monitoring.

3. There was no marine transportation at Zones 1, 2, and 3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. Also, there was no muddy plume observed at station SR3 during sampling exercise.

4. No leakage of turbid water or any abnormity or malpractice for all contract works was observed during the sampling exercise.

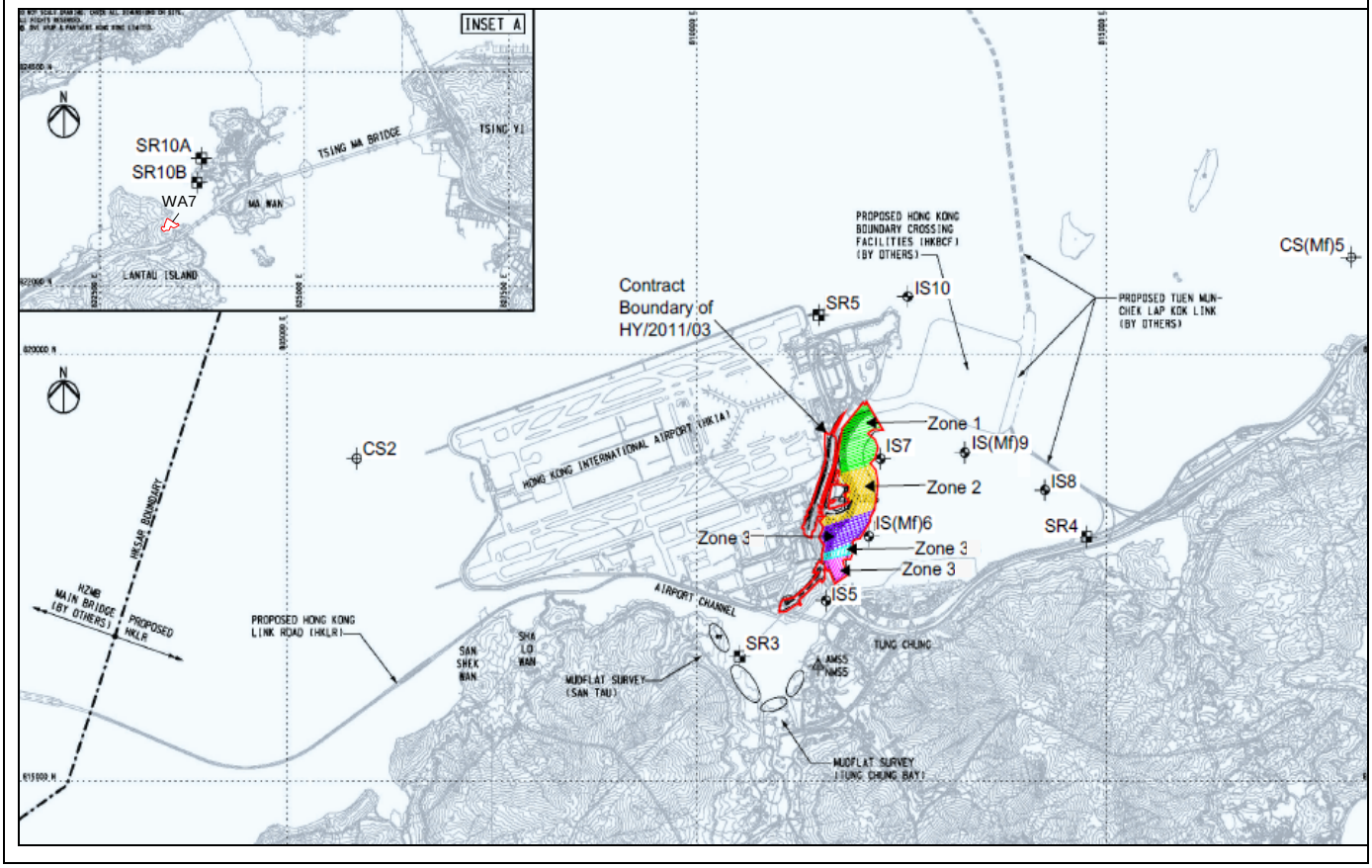
As such, the exceedance of suspended solid level is considered to be attributed to other external factors such as sea condition, rather than the contract works.

Actions taken/ to be taken:

As the suspended solid level recorded beyond the water quality criteria was not related to the contract works, no immediate

actions are considered necessary. However, the Contractor is reminded to ensure that the silt curtain is fully maintained throughout the construction works and construction works are carried out under stringent supervision to prevent any water quality impacts to the seawater.

Location Plan:



Reviewed by : Claudine Lee Title : ET Leader

Date : 14 August 2017

Copied to : Supervising Officer, IEC, EPD, Contractor, ENPO

Contract No. HY/2011/03 -
Hong Kong- Zhuhai- Macao Bridge
Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Notifications of Environmental Quality Limits Exceedances Notification No.: 242s ver 1

Date of Notification: 9 August 2017

Works Inspected: Data collected from water sampling works on 14 July 2017 by Contract No. HY/2010/02 and Contract No. HY/2011/09

Monitoring Location: Water Quality Monitoring Station

Parameter: ~~Dissolved Oxygen (DO)/~~ Suspended Solid (SS)/ ~~Turbidity (TURB)~~

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	IS7	DA	**23.5** and 120% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2: 5.97 x 120% = **7.2** for mid ebb AND CS(Mf)5: 11.65 x 120% = **14.0** for mid flood)	**34.4** and 130% of upstream control station's suspended solids at the same tide of the same day (i.e. CS2: 5.97 x 130% = **7.8** for mid ebb AND CS(Mf)5: 11.65 x 130% = **15.1** for mid flood)	15.8	***24.8***

Notes:
1) DA means depth average.
2) ***Bold Italic*** means AL exceedances.
3) ***Bold Italic with underline*** means LL exceedances.
4) The monitoring data of water quality monitoring for stations SR3 and CS(Mf)5 were adopted from the published EM&A data of Contract No. HY/2010/02. The data are available at a website: http://www.hzmbenpo.com/
5) The monitoring data of water quality monitoring for station CS2 was adopted form the published EM&A data of Contract No. HY/2011/09. The data are available at a website: http://www.hzmbenpo.com/

Possible reason for Action Level Non-compliance:

On 14 July 2017, an Action Level exceedance of suspended solid was recorded at station IS7 during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to the contract works due to the following reasons:

1. Removal of surcharge, road and drainage construction at Zones 1 and 2; seawall construction at Zones 2 and 3; box culvert construction at Zone 2; and transportation of fill material at Zone 3 were carried out within the properly deployed silt curtain as recommended in the EIA Report.

2. The ranges of suspended solid at station IS7 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid-Ebb Tide			Range of Suspended Solid (mg/L) Mid-Flood Tide		
IS7	6.1	to	21	7.8	to	34

The measured value for mid-ebb tide at station IS7 was within the range of suspended solid for mid-flood tide during baseline monitoring.

3. There was no marine transportation at Zones 1, 2, and 3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. Also, there was no muddy plume observed at station IS7 during sampling exercise.

4. No leakage of turbid water or any abnormity or malpractice for all contract works was observed during the sampling exercise.

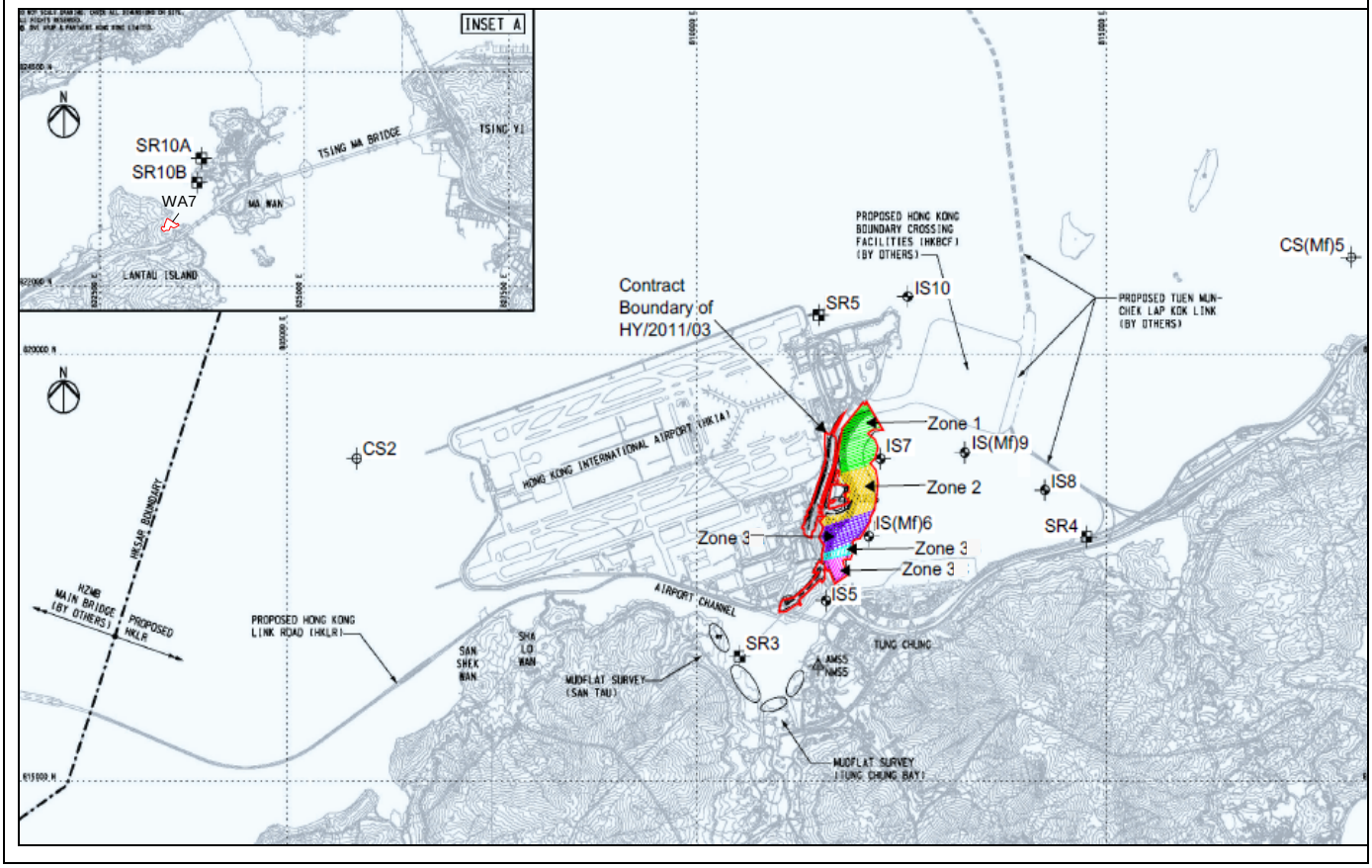
As such, the exceedance of suspended solid level is considered to be attributed to other external factors such as sea condition, rather than the contract works.

Actions taken/ to be taken:

As the suspended solid level recorded beyond the water quality criteria was not related to the contract works, no immediate

actions are considered necessary. However, the Contractor is reminded to ensure that the silt curtain is fully maintained throughout the construction works and construction works are carried out under stringent supervision to prevent any water quality impacts to the seawater.

Location Plan:



Reviewed by : Claudine Lee Title : ET Leader

Date : 14 August 2017

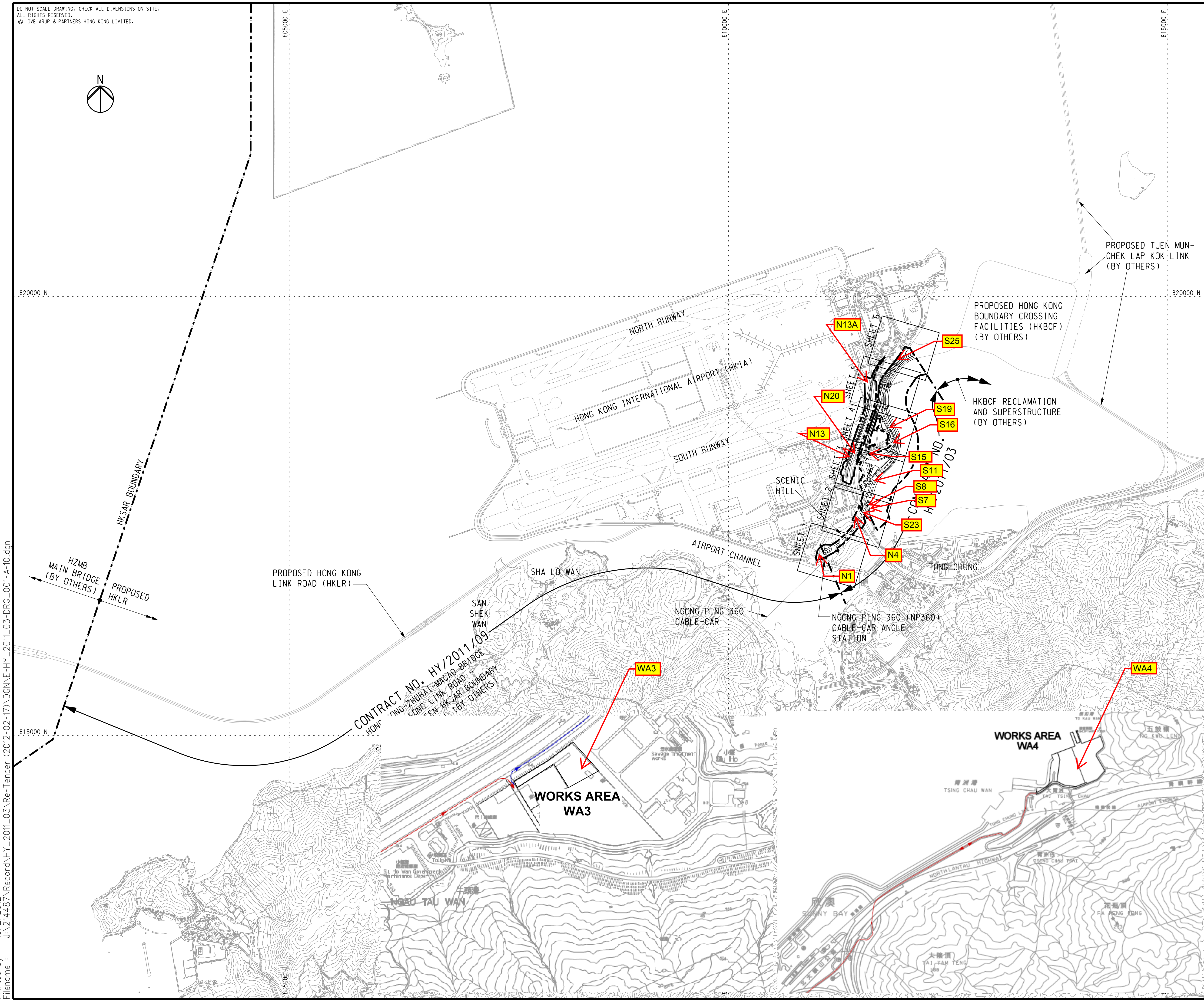
Copied to : Supervising Officer, IEC, EPD, Contractor, ENPO

Summary of Notifications of Summons and Prosecutions

Total No. of Notifications of Summons / Prosecutions Received	No. of Notifications of Summons / Prosecutions Received during Reporting Period	Status of Notifications of Summons / Prosecutions
0	0	N/A

APPENDIX N

Location of Works Areas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805000 E
810000 E
815000 E
820000 N
815000 N
HKSAR BOUNDARY
HZMB MAIN BRIDGE (BY OTHERS)
PROPOSED HKLR
PROPOSED HONG KONG LINK ROAD (HKLR)
CONTRACT NO. HY/2011/09
NORTH RUNWAY
HONG KONG INTERNATIONAL AIRPORT (HKIA)
SOUTH RUNWAY
SCENIC HILL
AIRPORT CHANNEL
SHA LO WAN
SAN SHEK WAN
NGONG PING 360 CABLE-CAR
NGONG PING 360 (NP360) CABLE-CAR ANGLE STATION
TUNG CHUNG
PROPOSED HONG KONG BOUNDARY CROSSING FACILITIES (HKBCF) (BY OTHERS)
HKBCF RECLAMATION AND SUPERSTRUCTURE (BY OTHERS)
PROPOSED TUEN MUN-CHEK LAP KOK LINK (BY OTHERS)
SHEET 1
SHEET 2
SHEET 3
SHEET 4
SHEET 5
SHEET 6
N13A
N20
N13
N4
N1
S25
S19
S16
S15
S11
S8
S7
S23
WA3
WA4
WORKS AREA WA3
WORKS AREA WA4
NGAU TAU WAN
Siu Ho
TSING CHAU WAN
NORTH LANTAU HIGHWAY
SUNNY BAY
TAI YAM TENG
FA PENG TENG

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. NOS. 214487/2/T/002 - 007.

LEGEND

— · — · — SITE BOUNDARY

Rev	Description	By	Date
A	TENDER ISSUE	IL	02/12

Consultant

ARUP 奥雅纳工程顧問 Ove Arup & Partners Hong Kong Limited

Contract No. and Title:

Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title

GENERAL LAYOUT
KEY PLAN

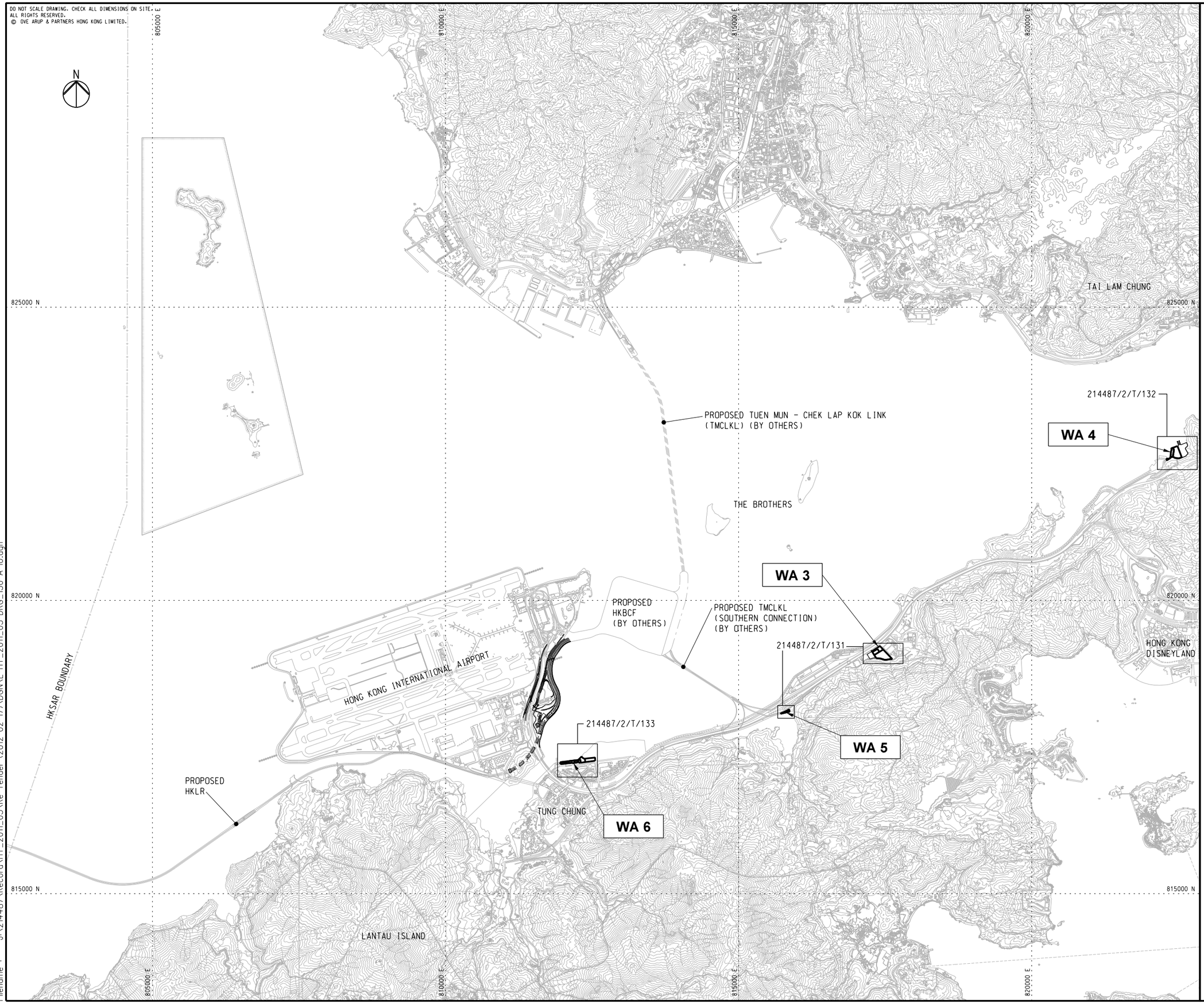
Drawing no.	Rev.
214487/2/T/001	A

Drawn	Date	Checked	Approved
RY	02/12	IL	SK

Scale	Status
1:20000 @A1	TENDER

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Printed by : 13/2/2012
Filename : J:\214487\Record\HY_2011_03\Re-Tender (2012-02-17)\DGN\E-HY_2011_03-DRG_001-A-10.dgn



NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. NOS. 214487/2/T/131 - 133.

Rev	Description	By	Date
A	TENDER ISSUE	IL	02/12

Consultant

ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited

Contract No. and Title:

Contract No. HY/2011/03

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title

WORKS AREAS
KEY PLAN

Drawing no.		Rev.
214487/2/T/130		A
Drawn: RY	Date: 02/12	Checked: IL	Approved: SK
Scale: 1:30000 @A1		Status: TENDER	

路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Printed by : 13/2/2012
Filename : J:\214487\Record\HY_2011_03\Re-Tender (2012-02-17)\DGN\E-HY_2011_03-DRG_130-A-10.dgn

N

WORKS AREA
WA3

Printed by : 30/5/2012
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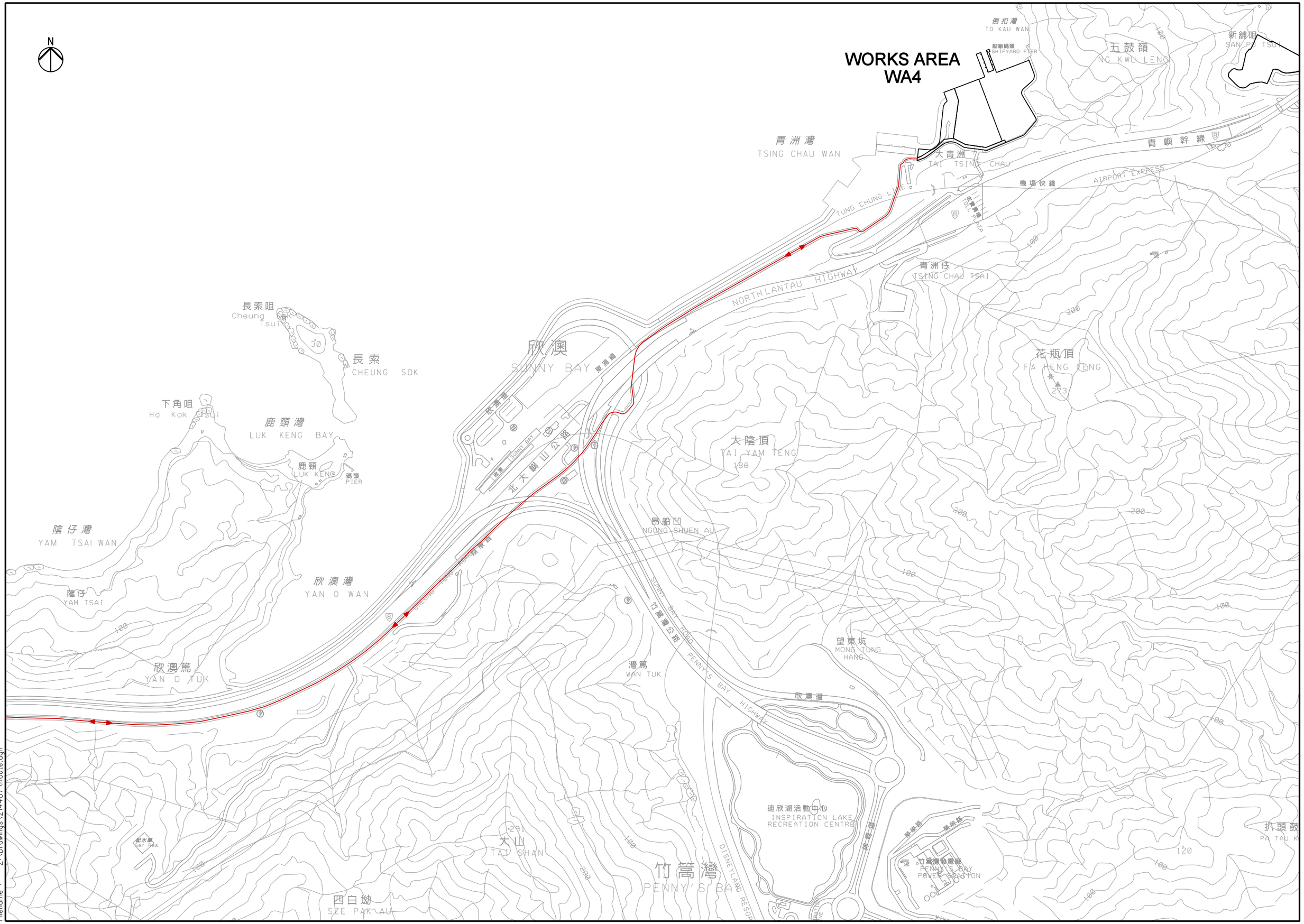
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WORKS AREA
WA4
倒扣灣
TO KAU WAN
船廠碼頭
SHIPYARD PIER
五鼓嶺
NG KWU LENG
新舖咀
SAN PO TSUI
青洲灣
TSING CHAU WAN
大青洲
TAI TSING CHAU
青嶼幹線
機場快綫
AIRPORT EXPRESS
TUNG CHUNG LINE
TOLL PLAZA
NORTH LANTAU HIGHWAY
青洲仔
TSING CHAU TSAI
長索咀
Cheung Sok Tsui
長索
CHEUNG SOK
下角咀
Ha Kok Tsui
鹿頸灣
LUK KENG BAY
鹿頸
LUK KENG
碼頭
PIER
欣澳
SUNNY BAY
東涌線
欣澳道
北大嶼山公路
SUNNY BAY ROAD
大陰頂
TAI YAM TENG
186
花瓶頂
FA PING TENG
273
陰仔灣
YAM TSAI WAN
陰仔
YAM TSAI
欣澳灣
YAN O WAN
欣澳篤
YAN O TUK
昂船凹
NGONG SHUEN AU
竹篙灣公路
SUNNY BAY ROAD
PENNY'S BAY HIGHWAY
望東坑
MONG TUNG HANG
灣篤
WAN TUK
欣澳道
迪欣湖活動中心
INSPIRATION LAKE RECREATION CENTRE
東涌路
DISNEYLAND RESORT LINE
竹篙灣發電廠
PENNY'S BAY POWER STATION
大山
TAI SHAN
291
四白坳
SZE PAK AU
竹篙灣
PENNY'S BAY
扒頭鼓
PA TAU K
100
200
120
300
Printed by : 28/5/2012
Filename : Z:\Drawings\214487\Route.dgn

N

WORKS AREA
WA5

NORTH LANTAU HIGHWAY

CHEUNG TUNG ROAD

北大嶼山公路

HWM

Rocky Area

Pipeline

Fence

Platform

Pier

碼頭

Rocky Shore

岩地

Pak Mong

白芒

TAI HO WAN

大蠔灣

煤氣調壓及檢管站

Printed by : 30/5/2012
Filename : Z:\Drawings\214487\Route.dgn

WORKS AREA WA6

6C | 6A | 6B | 6B

Fence

TUNG CHUNG WATERFRONT ROAD

Seawall

海堤

填地

東涌發展碼頭
Tung Chung Development Pier

東涌海濱路

CHUN YUE ROAD

CHEK LAP KOK SOUTH ROAD

AIRPORT ROAD

EAST COAST ROAD

CHUN KWAN ROAD

SCENIC ROAD

NORTH LANTAU HIGHWAY

SHUN TUNG ROAD

TUNG CHUNG EASTERN INTERCHANGE

駿運路交匯處
CHUN WAN ROAD INTERCHANGE

飛行訓練中心
Flight Training Centre

國泰城
Cathay Pacific City

古聚公園
Ancient Kiln Park

觀景山
SCENIC HILL

商貿港物流中心
Tradeport Logistics Centre

飛機燃料儲存庫
Tank Farm

白沙咀
Pak Sha Tsui

Aerial Ropeway 架空索道

赤鱲角南路

社區農圃
Community Garden

逢東路花園

東涌轉車站
Tung Chung Skycity Terminal

施工中
Works in progress

東堤灣畔
Tung Chung Crescent

東涌小炮台
Tung Chung Battery

墓地
Graves

文東路公園
Man Tung Road Park

住客會所
Club House

海堤灣畔
Seaview Crescent

諾富特東薈城酒店
Novotel Citygate HK

東薈城
Citygate

東薈城第一期
Citygate

平台
Podium

東涌站
Tung Chung Station

富東邨
Fu Tung Estate

富東街

水藍天
LeBleu

藍天海岸
Coastal Skyline

影岸紅

抽水房

污水泵房

佛教青年營樂營
Buddhist Youth Camp

東涌東交匯處

迎耀路

映灣園
Caribbean Coast

悅灣軒
Carmel Cove

聽灣軒
Crystal Cove

文東路

Printed by : 30/5/2012
Filename : Z:\Drawings\214487\Route.dgn

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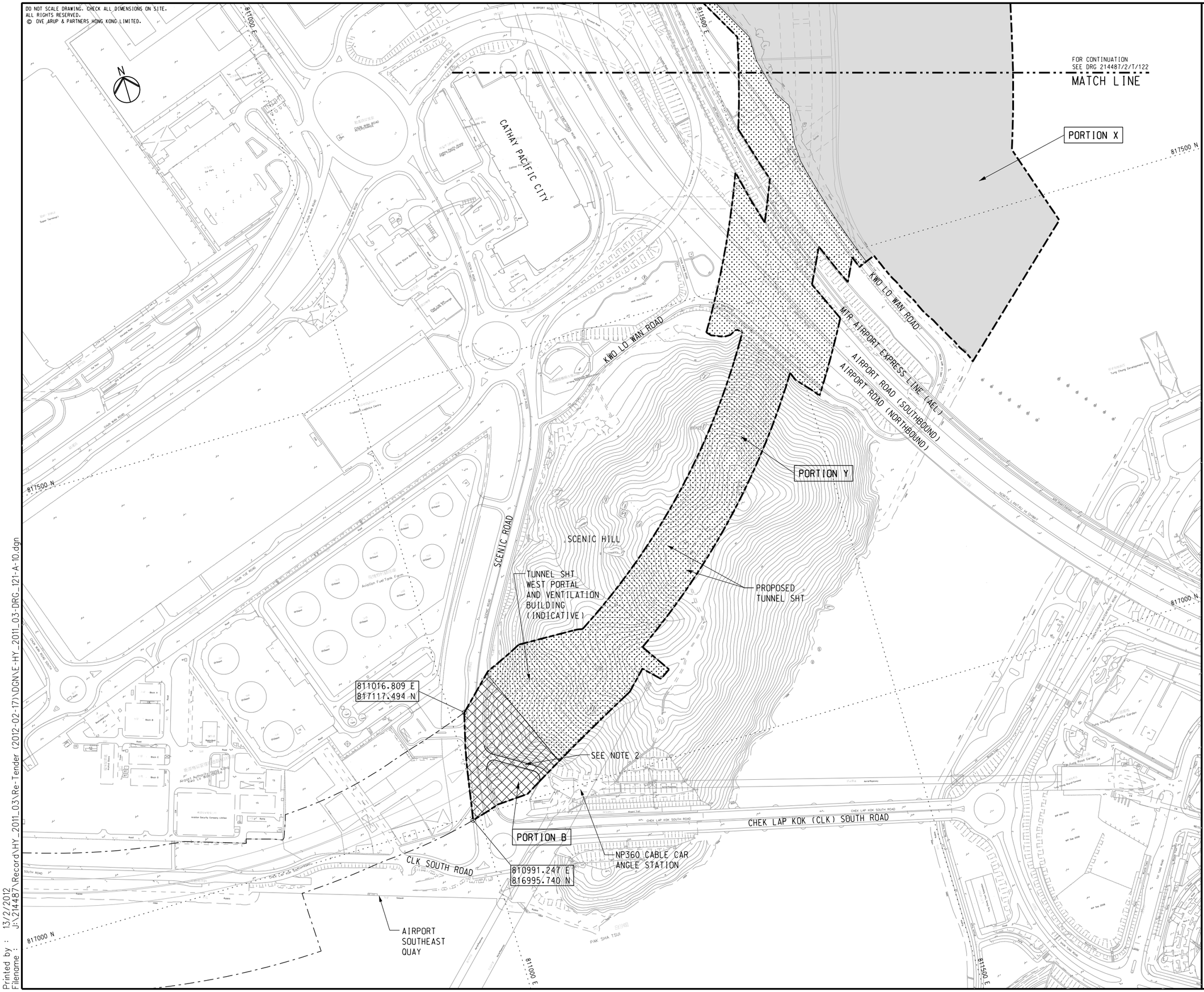


NOTES

1. FOR DETAILED DESCRIPTION OF PORTION OF SITE, REFER TO ER PART 2 GENERAL SITE DATA.
2. ACCESS ROAD TO NP360 CABLE CAR ANGLE STATION SHALL BE MAINTAINED AT ALL TIMES.

LEGEND

- SITE BOUNDARY
- PORTION X
- PORTION Y
- PORTION B
- PORTION C
- PORTION D1

Rev	Description	By	Date
A	TENDER ISSUE	IL	02/12

Consultant

ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited

Contract No. and Title:

Contract No. HY/2011/03

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title

PORTION OF SITE
(SHEET 1 OF 3)

Drawing no.	Rev.
214487/2/T/121	A

Drawn	Date	Checked	Approved
RY	02/12	IL	SK

Scale	Status
1:2000 @A1	TENDER

路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Printed by : 13/2/2012
Filename : J:\214487\Record\HY_2011_03\Re-Tender (2012-02-17)\DGN\E-HY_2011_03-DRG_121-A-10.dgn

NOTES

1. FOR GENERAL NOTES AND LEGEND, REFER TO DRG. NO. 214487/2/T/121.

Rev	Description	By	Date
A	TENDER ISSUE	IL	02/12

Consultant

ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited

Contract No. and Title:

Contract No. HY/2011/03

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

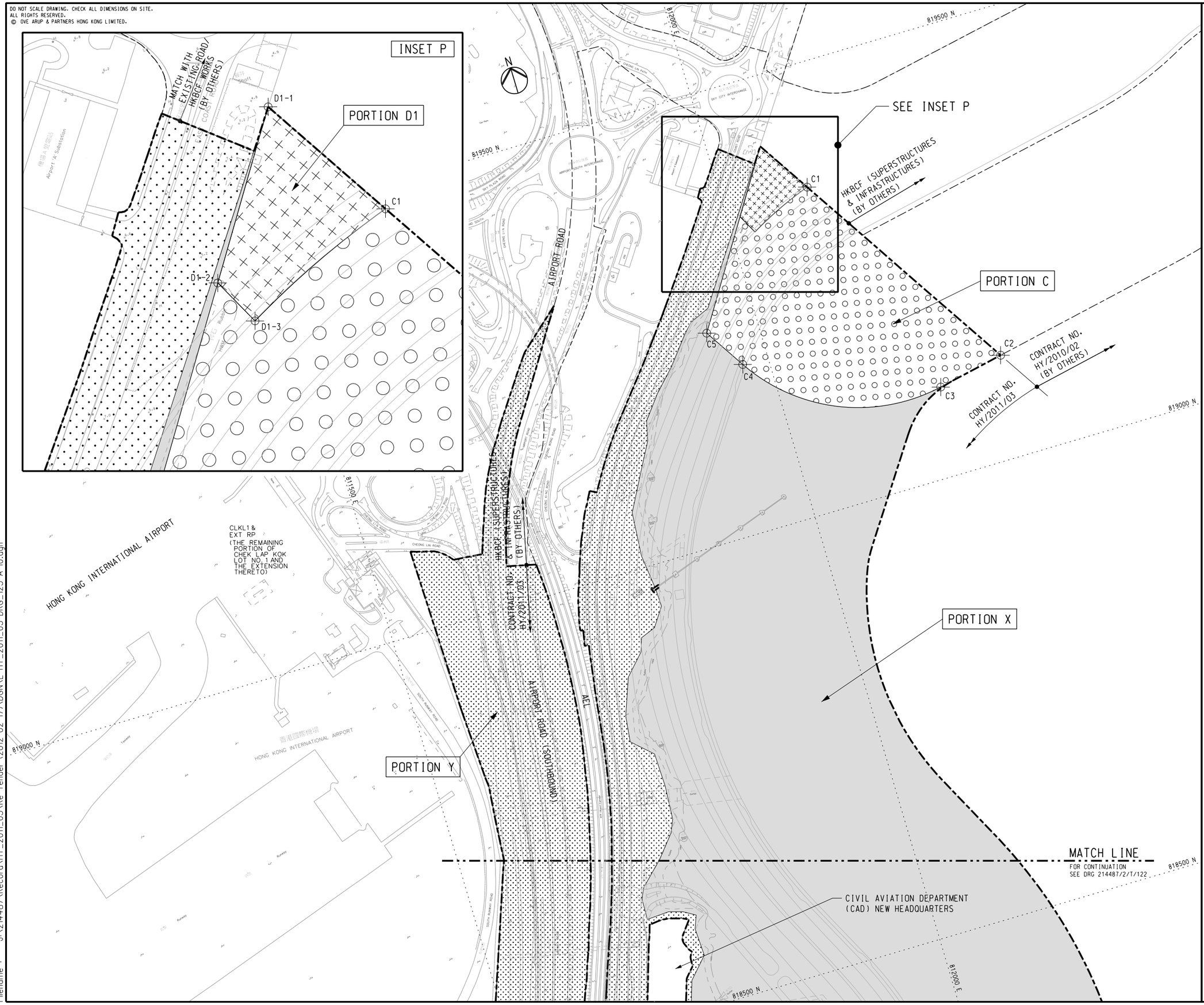
Drawing title

PORTION OF SITE
(SHEET 2 OF 3)

Drawing no.			Rev.
214487/2/T/122			A
Drawn	Date	Checked	Approved
RY	02/12	IL	SK
Scale		Status	
1:2000 @A1		TENDER	

路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Printed by : 13/2/2012
Filename : J:\214487\Record\HY_2011_03\Re-Tender (2012-02-17)\DGN\E-HY_2011_03-DRG_122-A-10.dgn



NOTES

1. FOR GENERAL NOTES AND LEGEND, REFER TO DRG. NO. 214487/2/T/121.

SETTING OUT CO-ORDINATES OF SITE PORTION C

POINT	CO-ORDINATES	
	EASTING	NORTHING
C1	812097.481	819361.966
C2	812254.199	819116.562
C3	812178.695	819101.208
C4	811970.282	819189.551
C5	811941.125	819235.206

SETTING OUT CO-ORDINATES OF SITE PORTION D1

POINT	CO-ORDINATES	
	EASTING	NORTHING
D1-1	812059.460	819421.497
D1-2	812014.853	819351.273
D1-3	812026.200	819329.938

Rev	Description	By	Date
A	TENDER ISSUE	IL	02/12

Consultant
ARUP 奧雅納工程顧問 Ove Arup & Partners Hong Kong Limited

Contract No. and Title:
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title
PORTION OF SITE
(SHEET 3 OF 3)

Drawing no.		Rev.
214487/2/T/123		A
Drawn: RY	Date: 02/12	Checked: IL / Approved: SK
Scale: 1:2000 @A1	Status: TENDER	

路政署 HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

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