Civil Engineering and Development Department

EP-344/2009 – New Sewage Pumping Stations Serving KTD and EP-337/2009 – New Distributor Roads Serving the Planned KTD

Contract No. KL/2012/03 Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area

Monthly EM&A Report

January 2016

(Version 1.0)

Approved By	(Environmental Team Leader)
REMARKS:	
	1

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

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CINOTECH CONSULTANTS LTD

Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong Tel: (852) 2151 2083 Fax: (852) 3107 1388 Email: <u>info@cinotech.com.hk</u>

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EXECUTIVE SUMMARY

Introduction

- This is the 26th Monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Ltd. for "Contract No. KL/2012/03 - Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area" (Hereafter referred to as "the Project"). This contract comprises the construction of Schedule 2 Designated Projects (DP) Road D2 & Sewage Pumping Station PS2 and PS NPS which forms a part of the works under two Environmental Permits (EP), EP-337/2009 and EP-344/2009. The title of the designated projects under Environmental Permit No.: EP-344/2009 is "New sewage pumping stations serving Kai Tak Development" and under Environmental Permit No.: EP-337/2009 is "New distributor roads serving the planned Kai Tak Development". This report documents the findings of EM&A Works conducted from 1 to 31 January 2016.
- 2. The major site activities undertaken in the reporting month included:
 - Base slab, wall, roof construction of Box culvert B5;
 - Backfilling of box culvert B5
 - Excavation of trench for sewers;
 - Excavation for NPS for Portion 4 and Box culvert B6;
 - Strut and waling of NPS;
 - Installation of DN750 drainage pipe and sewer at L19;
 - Installation of precast box culvert B6;
 - Installation of DCS;
 - Fixing of reinforcement and concreting to walls and slab of pumping station for PS2;
 - Laying concrete pipes DN750 from FMH10_345 to FHH10_350;
 - Construction of jacking pits 10, 11, 3 & 4; and
 - Widening works of Sung Wong Toi Road.

Environmental Monitoring Works

- 3. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 4. Summary of the breaches of action and limit levels in the reporting month for the Project is tabulated in **Table I**.

 Table I
 Breaches of Action and Limit Levels for the Project in the Reporting Month

Parameter	No. of Project-related Exceedance		Action Taken
1 al allietel	Action Level	Limit Level	Action Taken
1-hr TSP	0	0	N/A
24-hr TSP	0	0	N/A
Noise	0	0	N/A

1-hour & 24-hour TSP Monitoring

- 5. All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 6. All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

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

Environmental Licenses and Permits

- 8. Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, Environmental Permits No. EP-344/2009 and EP-337/2009 were issued on 23 April 2009.
- 9. Registration of Chemical Waste Producer (Waste Producer Number: 5213-286-K2958-05).
- 10. Water Discharge License (WT00020971-2015).

Key Information in the Reporting Month

11. Summary of complaint received, reporting changes and notifications of any summons and successful prosecutions in the reporting month is tabulated in **Table II**.

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0		N/A	N/A	
Reporting Changes	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

Table II Summary Table for Key Information in the Reporting Month

Future Key Issues

- 12. The future key environmental issues in the coming month include:
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
 - Water spraying for dust generating activity and on haul road;
 - Proper storage of construction materials on site;
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Accumulation of general and construction waste on site;
 - Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site; and
 - Review and implementation of temporary drainage system for the surface runoff.

1. INTRODUCTION

Background

- 1.1 The Kai Tak Development (KTD) is located in the south-eastern part of Kowloon Peninsula, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. It covers a land area of about 328 hectares. Stage 4 Infrastructure at Former North Apron Area is one of the construction stages of KTD. Schedule 2 DPs in this Project include new distributor roads serving the planned KTD and new sewage pumping stations serving the planned KTD. The general layout of the Project is shown in **Figure 1**.
- 1.2 Two Environmental Permits (EPs) No. EP-344/2009 and EP-337/2009 were also issued to the Permit Holder Civil Engineering and Development Department on 23 April 2009 for new sewage pumping stations serving the planned KTD and new distributor roads serving the planned KTD respectively.
- 1.3 A study of environmental impact assessment (EIA) was undertaken to identify the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and recommend possible mitigation measures associated with the works. The EIA Report (Register No. AEIAR-130/2009) was approved by the Environmental Protection Department (EPD) on 4 April 2009.
- 1.4 Cinotech Consultants Limited (Cinotech) is commissioned by Kwan On Construction Co., Ltd. (the Contractor) to undertake the role of the Environmental Team (ET) for the Contract No. KL/2012/03 Stage 4 Infrastructure at Former North Apron Area. The construction work under KL/2012/03 comprises the construction of Road D2 & Sewage Pumping Station PS2 and PS NPS which forms a part of the works under two EPs (EP-337/2009 and EP-344/2009).
- 1.5 The construction commencement of this Contract was on 1st December 2013 for Road D2, Sewage Pumping Station PS2 and PS NPS. This is the 26th Monthly EM&A report summarizing the EM&A works for the Project from 1 to 31 January 2016.

Project Organizations

- 1.6 Different parties with different levels of involvement in the project organization include:
 - Project Proponent Civil Engineering and Development Department (CEDD).
 - The Engineer and the Engineer's Representative (ER) AECOM.
 - Environmental Team (ET) Cinotech Consultants Limited (CCL).
 - Independent Environmental Checker (IEC) Hyder Consulting Limited. (Hyder).
 - Contractor Kwan On Construction Co., Ltd. (Kwan On).

1.7 The key contacts of the Project are shown in Table 1.1 and Figure 5.

Ke	ey Project Contacts			
Role	Contact Person	Position	Phone No.	Fax No.
Project Proponent	Mr. Roger Wong	Senior Engineer	2301 1174	2301 1277
Engineer's	Mr. John Yam	SRE	2708 0771	3013 8864
Representative	Mr. Ivan Yim	RE	2798 0771	3013 8804
Environmentel	Dr. Priscilla Choy	Environmental Team Leader	2151 2089	
Team	Ms. Ivy Tam	Project Coordinator and Audit Team Leader	2151 2090	3107 1388
Independent Environmental Checker	Mr. Wong Fu Nam	Independent Environmental Checker	2911 2744	2805 5028
Contractor	Mr. Terry Yu	Site Agent		`
	RoleProjectProponentEngineer'sRepresentativeEnvironmentalTeamIndependentEnvironmentalChecker	Project ProponentMr. Roger WongEngineer's RepresentativeMr. John YamEnvironmental TeamDr. Priscilla ChoyIndependent Environmental CheckerMr. Wong Fu Nam	RoleContact PersonPositionProject ProponentMr. Roger WongSenior EngineerEngineer's RepresentativeMr. John YamSREDr. Priscilla ChoyEnvironmental Team LeaderEnvironmental Team LeaderIndependent Environmental CheckerMr. Wong Fu NamIndependent Environmental Checker	RoleContact PersonPositionPhone No.Project ProponentMr. Roger WongSenior Engineer2301 1174Engineer's RepresentativeMr. John YamSRE RE2798 0771Environmental TeamDr. Priscilla ChoyEnvironmental Team Leader2151 2089Independent Environmental CheckerMr. Wong Fu NamIndependent Environmental Checker2151 2090Independent Environmental CheckerMr. Wong Fu NamSite Agent2911 2744Constructor ConstructorMr. Terry WuSite Agent3689 7752

Construction Activities undertaken during the Reporting Month

- 1.8 The site activities undertaken in the reporting month included:
 - Daily Clearance; •
 - Base slab, wall, roof construction of Box culvert B5; •
 - Backfilling of box culvert B5 •
 - Excavation of trench for sewers; •
 - Excavation for NPS for Portion 4 and Box culvert B6; •
 - Strut and waling of NPS: •
 - Installation of DN750 drainage pipe and sewer at L19; •
 - Installation of precast box culvert B6; •
 - Installation of DCS; •
 - Fixing of reinforcement and concreting to walls and slab of pumping station for PS2;
 - Laying concrete pipes DN750 from FMH10_345 to FHH10_350; •
 - Construction of jacking pits 10, 11, 3 & 4; and •
 - Widening works of Sung Wong Toi Road. •
- 1.9 The construction programme showing the inter-relationship with environmental protection/mitigation measures is presented in Table 1.2.

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Table 1.2 Construction Programme Showing the Inter-Relationship with Environmental Protection/Mitigation Measures

Construction Works	Generated Major Environmental Impact	Control Measures
Daily Clearance	N/A	N/A
Excavation of trench for sewers; Excavation for NPS for Portion 4 and Box culvert B6.	Dust, Water Quality	 Sufficient watering of the works site with active dust emitting activities; Properly cover the stockpiles; Appropriate desilting/sedimentation devices provided on site for treatment before discharge; Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall; and On-site waste sorting and implementation of trip ticket system.
Base slab , wall and roof slab construction for B5	Noise, Waste Management	 Use of quiet plant and well-maintained construction plant; and Provide hoarding. Good management and control on construction waste reduction
Road widening works for Sun Wong Tai Road; Strut and waling of NPS; Fixing of	Noise	 Use of quiet plant and well-maintained construction plant; and Provide hoarding.
reinforcement and concreting to walls and slab of pumping station for PS2	Noise	 Use of quiet plant and well-maintained construction plant; and Provide hoarding.
Installation of DN750 drainage pipe and sewer at L19, precast box culvert B6 and DCS; Laying concrete pipes DN750 from FMH10_345 to FHH10_350; Construction of jacking pits 10, 11, 3 & 4	Noise, Water Quality	 Use of quiet plant and well-maintained construction plant; and Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall.

Summary of EM&A Requirements

- 1.10 The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event Action Plans;
- Environmental requirements and mitigation measures, as recommended in the EM&A Manual under the EP.
- 1.11 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 6 of this report.
- 1.12 This report presents the implementation of the EM&A programme for the Project from 1 to 31 January 2016.

1.13 Air quality monitoring stations within 500m and noise monitoring stations within 300m from the boundary of this Project are considered as relevant monitoring locations. In such regard, the relevant air quality and noise monitoring locations are tabulated in **Table 1.3** (see **Figure 2 and 3** for their locations).

Locations	Monitoring Stations In accordance with EM&A Manual	Alternative Monitoring Stations
Air Quality Monitoring Stations		
AM2 - Lee Kau Yan Memorial School	Yes	N/A
AM3 – Sky Tower	No	AM3(A) – Holy Trinity Bradbury Centre
AM4 – Grand Waterfront	No	AM4(A) – EMSD Workshop
AM5 – CCC Kei To Secondary School	No	AM5(A) – Po Leung Kuk Ngan Po Ling College
AM6 – Site 1B4 (Planned)	N/A	
Noise Monitoring Stations		
M6 – Holy Carpenter Primary School	No	M6(A) – Oblate Primary School
M7 – CCC Kei To Secondary School	Yes	N/A
M8 – Po Leung Kuk Ngan Po Ling College	Yes	N/A
M9 – Tak Long Estate	Yes	N/A
M10 – Site 1B4 (Planned)		N/A

Table 1.3	Air Ouality and Noise	Monitoring Stations for this Project

Remarks:

"Yes" - Monitoring station is the same as that stated in EM&A Manual

> No - Monitoring station is not the same as that stated in EM&A Manual. Request for carrying monitoring works at the monitoring stations stated in EM&A Manual was rejected by owner of premise. Alternative monitoring stations were proposed by the ET of Schedule 3 EIA and approved by the EPD.

> N/A - No alternative monitoring station is required.

1.14 According to the Environmental Monitoring and Audit Manual (EM&A Manual) of the Kai Tak Development (KTD) Schedule 3 Environmental Impact Assessment (EIA) Report, the impact monitoring at the designated monitoring stations as required in KTD EM&A Manual under the EP, has been conducted in Environmental Monitoring Works for Kai Tak Development under Schedule 3 of KTD, which is on-going starting from December 2010. The impact monitoring data under Schedule 3 of KTD will be adopted for the Project. Therefore, this report presents the air quality and noise monitoring works extracted from Schedule 3 of KTD.

Status of Compliance with Environmental Permits Conditions

1.15 The status of required submission related to this Project under the Environmental Permits No. EP-337/2009 and EP-344/2009 is summarized in the **Table 1.4** and **Table 1.5** respectively:

EP Conditions	Submission	Submission Date	Remark
1.11	Notification of Commencement Date of Construction of Project	31 October 2013	For Road D2
2.3	Management Organization of Main Construction Companies	31 October 2013	For Contract No. KL/2012/03
2.4	Design Drawing(s) of the Project	28 October 2013	For Road D2
2.11	Landscape Mitigation Plan(s) for distributors road(s)	7 January 2014	For Road D2
2.12	As-built drawing(s) for the distributor road(s)	To be submitted at least one commencement of operation	
3.2	Baseline Monitoring Report	26 November 2010 (Part I) 24 December 2010 (Part II)	/
3.3	Four hard copies and one electronic copy of the Monthly EM&A Report No.25 (December 2015)	1 February 2016	Monthly EM&A Report for Contract No. KL/2012/03

Table 1.4	Summary Table	for Required Submissic	on under EP No. EP-337/2009
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Table 1.5 Summary Table for Required Submission under EP No. EP-344/2009

EP Conditions	Submission	Submission Date	Remark
1.11	Notification of Commencement Date of Construction of Project	31 October 2013	For Pumping Station PS2 and PS NPS
2.3	Management Organization of Main Construction Companies	31 October 2013	For Contract No. KL/2012/03
2.4	Design Drawing(s) of the Project	28 October 2013	For Pumping Station PS2 and PS NPS
2.11	Landscape Mitigation Plan(s) for sewage pumping station(s)	7 January 2014	For Pumping Station PS2 and PS NPS
2.12	As-built drawing(s) for the sewage pumping station (s)	To be submitted at least one commencement of operation	
3.2	Baseline Monitoring Report	26 November 2010 (Part I) 24 December 2010 (Part II)	/
3.3	Four hard copies and one electronic copy of the Monthly EM&A Report No.25 (December 2015)	1 February 2016	Monthly EM&A Report for Contract No. KL/2012/03

2. AIR QUALITY

Monitoring Requirements

2.1 According to EM&A Manual under the EPs, 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days shall be undertaken when the highest dust impact occurs. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

2.2 Five designated monitoring stations were selected for air quality monitoring programme. Impact dust monitoring was conducted at four of the air quality monitoring stations (AM2, AM3(A), AM4(A) and AM5(A)). **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

Table 2.1 Elections for All Quality Monitoring			
Monitoring Stations	Locations	Location of Measurement	
AM2	Lee Kau Yan Memorial School	Rooftop (about 8/F) Area	
AM3(A)	Holy Trinity Bradbury Centre	Rooftop (about 8/F) Area	
AM4(A)	EMSD Workshops	Rooftop (about 6/F) Area	
AM5(A)	Po Leung Kuk Ngan Po Ling College	Rooftop (about 10/F) Area	
#AM6	PA 15	Site 1B4 (Planned)	

Table 2.1Locations for Air Quality Monitoring

Remarks: # The impact monitoring at these locations will only be carried out until the sensitive receivers at the building are resided.

Monitoring Equipment

2.3 **Table 2.2** summarizes the equipment used in the impact air monitoring programme. Copies of calibration certificates and laboratory accreditation are attached in **Appendix B**.

Equipment	Quantity	
Equipment	Model and Make	Quantity
Calibrator	G25A	1
1-hour TSP Dust Meter	Laser Dust Monitor – Model LD-3 & LD-3B, AEROCET-531	9
HVS Sampler	GMWS 2310 c/w of TSP sampling inlet	4
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1

 Table 2.2
 Air Quality Monitoring Equipment

Monitoring Parameters, Frequency and Duration

2.4 Table 2.3 summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting month is shown in **Appendix D**.

Table 2.3 Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency	
1-hr TSP	At least three times every 6 days	
24-hr TSP	At least once every 6 days	

Monitoring Methodology and Quality Assurance and Quality Control (QA/QC) Procedure

1-hour TSP Monitoring

Measuring Procedures

- 2.5 The measuring procedures of the 1-hour dust meters were in accordance with the Manufacturer's Instruction Manual as follows:
 - The 1-hour dust meter is placed at least 1.3 meters above ground.
 - Set POWER to "ON" and make sure that the battery level was not flash or in low level.
 - Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
 - Push the knob at MEASURE position.
 - Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
 - Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
 - Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

Maintenance/Calibration

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

24-hour TSP Monitoring

Instrumentation

2.7 High volume samplers (HVS) (Model GMWS-2310 Accu-Vol) completed with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in section 2.5 of the updated EM&A Manual.

Operating/Analytical Procedures

- 2.8 Operating/analytical procedures for the operation of HVS were as follows:
 - A horizontal platform was provided with appropriate support to secure the samplers against gusty wind.
 - No two samplers were placed less than 2 meters apart.
 - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
 - A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
 - A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
 - No furnaces or incineration flues were nearby.
 - Airflow around the sampler was unrestricted.
 - The sampler was more than 20 meters from the drip line.
 - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- 2.9 Prior to the commencement of the 24-hour TSP sampling, the flow rate of the high volume sampler was properly set (between 1.1 m³/min. and 1.4 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.10 For 24-hour TSP sampling, fiberglass filters having a collection efficiency of $\ge 99\%$ for particles of 0.3µm (DOP) diameter were used.
- 2.11 The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 2.12 The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.13 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.

- 2.14 The shelter lid was closed and secured with the aluminum strip.
- 2.15 The timer was then programmed so that the TSP will be sampled for 24 hours. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- 2.16 After completion of sampling, the filter was removed and sent to Wellab Ltd., which is accredited under HOKLAS for laboratory analysis. The elapsed time was also recorded.
- 2.17 Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning temperature should be between 25°C and 30°C and not vary by more than ± 3 °C; the relative humidity (RH) should be < 50% and not vary by more than ± 5 %. A convenient working RH is 40%.

Maintenance/Calibration

- 2.18 The following maintenance/calibration was required for the HVS:
 - The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
 - High volume samplers were calibrated at bi-monthly intervals using G25A Calibration Kit throughout all stages of the air quality monitoring.
 - Orifice Transfer Standards were calibrated at yearly intervals throughout all stages of the air quality monitoring.

Results, Observations and Action/Limit Level Exceedance

- 2.19 All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 2.20 All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 2.21 The air temperature, precipitation and the relative humidity data were obtained from Hong Kong Observatory where the wind speed and wind direction were recorded by the installed Wind Anemometer set at rooftop (about 8/F) Lee Kau Yan Memorial School. The location is shown in **Figure 4**. This weather information for the reporting month is summarized in **Appendix C**.
- 2.22 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendices E and F** respectively.
- 2.23 The summary of exceedance record in the reporting month is shown in **Appendix H**. No exceedance in Action/Limit Levels of 1-hour and 24-hour TSP was recorded for the air quality monitoring.

2.24 According to our field observations, the major dust source identified at the designated air quality monitoring stations is as follows:

Table 2.4	Major dust source identified at the designated air quality monitoring
stations	

Station	Major Dust Source
AM2 – Lee Kau Yan Memorial School	Road Traffic Dust
	Exposed site area and open stockpiles
	Site vehicle movement
AM3(A) – Holy Trinity Bradbury	Road Traffic Dust
Centre	Exposed site area
	Excavation works
	Site vehicle movement
AM4(A) – EMSD Workshops	Site vehicle movement
AM5(A) – Po Leung Kuk Ngan Po	Road Traffic Dust
Ling College	Excavation works at the site (Contract No.:
	1/WSD/14(K)) facing Po Leung Kuk Ngan Po
	Ling College

3. NOISE

Monitoring Requirements

3.1 According to EM&A Manuals under the EP, construction noise monitoring was conducted to monitor the construction noise arising from the construction activities within KTD. The regular monitoring frequency for each monitoring station shall be on a weekly basis to conduct one set of measurements between 0700 and 1900 hours on normal weekdays. Appendix A shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

- 3.2 Five designated monitoring stations were selected for noise monitoring programme. Noise monitoring was conducted at four designated monitoring stations (M6, M7, M8 and M9). **Figure 3** shows the locations of these stations.
- 3.3 Construction noise monitoring at Station M6 Holy Carpenter Primary School was rejected by the premise owner on 6th October 2014. The monitoring station has been relocated at a proposed alternative noise monitoring station M6(A) Oblate Primary School since 10th October 2014 to carry out the monitoring works.

Monitoring Stations	Locations	Location of Measurement	
*M6(A)	Oblate Primary School	Rooftop (about 7/F) Area	
M7	CCC Kei To Secondary School	Rooftop (about 8/F) Area	
M8	Po Leung Kuk Ngan Po Ling College	Staircase Area (about 9/F)	
M9	Tak Long Estate	Car Park Building (about 2/F)	
#M10	Site 1B4 (Planned)	-	

Table 3.1Noise Monitoring Stations

Remarks:

* Alternative noise monitoring station for M6 – Holy Carpenter Primary School from 10th October 2014 onwards

The impact monitoring at these locations will only be carried out until existence of the sensitive receiver at the building.

Monitoring Equipment

3.4 **Table 3.2** summarizes the noise monitoring equipment. Copies of calibration certificates are provided in **Appendix B**.

Table 3.2Noise Monitoring Equipment

Equipment	Model and Make	Qty.
Integrating Sound Level Meter	SVAN 955, 957	7
Calibrator	SVAN 30A	5
	B&K4231	2

Monitoring Parameters, Frequency and Duration

3.5 Table 3.3 summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

Table 5.5 Noise Momenting Farameters, Frequency and Duration				
Monitoring Stations	Parameter	Period	Frequency	Type of Measurement
M7 M8 M9	L ₁₀ (30 min.) dB(A) L ₉₀ (30 min.) dB(A) L _{eq} (30 min.) dB(A)	0700-1900 hrs on normal weekdays	Once per week	Façade ^(*)
M6(A)	$L_{10}(30 \text{ min.}) dB(A)$ $L_{90}(30 \text{ min.}) dB(A)$ $L_{eq}(30 \text{ min.}) dB(A)$	0700-1900 hrs on normal weekdays	Once per week	Free Field ^(*)

(*) Refer to bullet point 1 and 2 in the following section.

Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was set on a tripod at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels was adjusted with a correction of +3 dB(A).
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - frequency weighting : A
 - time weighting : Fast
 - time measurement : 30 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise measurement was paused temporarily during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

Maintenance and Calibration

- 3.6 The microphone head of the sound level meter and calibrator was cleaned with a soft cloth at quarterly intervals.
- 3.7 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.8 Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Results, Observations and Action/Limit Level Exceedance

- 3.9 All construction noise monitoring was conducted as scheduled in the reporting month. No Action and Limit Level exceedance was recorded.
- 3.10 The baseline noise level and the Noise Limit Level at each designated noise monitoring station are presented in **Table 3.4**.
- 3.11 Noise monitoring results and graphical presentations are shown in Appendix G.
- 3.12 The major noise source identified at the designated noise monitoring stations is as follows:

Monitoring Stations	Locations	Major Noise Source
M6(A)	Oblate Primary School	Road and marine traffic Noise
M7	CCC Kei To Secondary School	Road and marine traffic Noise
M8	Po Leung Kuk Ngan Po Ling College	Excavation works at the site (Contract No.: 1/WSD/14(K)) facing Po Leung Kuk Ngan Po Ling College
M9	Tak Long Estate	Road paving and asphalt paving works

 Table 3.4
 Major noise source identified at the designated noise monitoring stations

Table 3.5 Baseline noise level and noise limit level for monitoring stations

Monitoring	Baseline Noise Level, dB (A)	Noise Limit Level, dB (A)
Stations		
M6(A)	63.9 (at 0700 – 1900 hrs on normal weekdays)	
М7	68.7 (at 0700 – 1900 hrs on normal weekdays)	70* (at 0700 – 1900 hrs on normal weekdays)
M8	61.9 (at 0700 – 1900 hrs on normal weekdays)	
M9	59.0 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)

(*) Noise Limit Level is 65 dB(A) during school examination periods.

4. COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

4.1 According to Section 16.1.6 (vi) of the EM&A Manual, the EM&A data were compared with the EIA predictions as summarized in **Table 4.1** to **4.3** below.

Station	Predicted 1-hr TSP conc.			
	Scenario1 (Mid 2009 to	Scenario2 (Mid 2013 to	Reporting Month (January 2016), μg/m3	
	Mid 2013), µg/m3	Late 2016), µg/m3	Average	Range
AM2 – Lee Kau Yan Memorial School	290	312	129.2	52.3 - 248.8
AM3(A) - Holy Trinity Bradbury Centre (Alternative station for Sky Tower)	217	247	120.8	42.8 - 248.7
AM4(A) – EMSD Workshops (Alternative station for Grand Waterfront)	246	258	121.7	25.6 - 267.3
AM5(A) – Po Leung Kuk Ngan Po Ling College (Alternative station for CCC Kei To Secondary School)	159	221	124.5	26.6 - 245.6

 Table 4.1
 Comparison of 1-hr TSP data with EIA predictions

Table 4.2Comparison of 24-hr TSP data with EIA predictions

Station	Predicted 24-hr TSP conc.			
	Scenario1 (Mid 2009 to	Scenario2 (Mid 2013 to	Reporting Month (January 2016), μg/m3	
	Mid 2013), µg/m3	Late 2016), µg/m3	Average	Range
AM2 – Lee Kau Yan Memorial School	145	169	59.4	37.0 - 91.2
AM3(A) - Holy Trinity Bradbury Centre (Alternative station for Sky Tower)	106	138	73.9	49.7 – 102.9
AM4(A) – EMSD Workshops (Alternative station for Grand Waterfront)	143	152	126.4	49.7 - 102.9
AM5(A) – Po Leung Kuk Ngan Po Ling College (Alternative station for CCC Kei To Secondary School)	103	128	43.0	28.5 - 63.3

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Stations	Predicted Mitigated Construction Noise Levels during Normal Working Hour (L _{eq (30min)} dB(A))	Reporting Month (January 2016), L _{eq (30min)} dB(A)
M6(A) - Oblate Primary School ^	N/A	56.3 - 63.8
M7 - CCC Kei To Secondary School	45 - 68	62.3 - 67.1
M8 - Po Leung Kuk Ngan Po Ling College	44 - 70	56.9 - 64.0
M9 – Tak Long Estate	Not predicted in EIA Report	56.1 - 69.7

Table 4.3	Comparison of Noise Monitoring Data with EIA predictions
	Comparison of Noise Monitoring Data with Enri predictions

(^) Alternative noise monitoring station for M6 – Holy Carpenter Primary School from 10th October 2014 onwards.

- 4.2 The averages of 1-hour TSP concentrations in all stations in the reporting month were below the prediction in the approved Environmental Impact Assessment (EIA) Report.
- 4.3 The averages of 24-hour TSP concentrations in all stations in the reporting month were below the prediction in the approved Environmental Impact Assessment (EIA) Report.
- 4.4 The noise monitoring results in the reporting month were within the range of predicted mitigated construction noise levels in the EIA report.

5. LANDSCAPE AND VISUAL

Monitoring Requirements

5.1 According to EM&A Manual of the Kai Tak Development EIA Study, ET shall monitor and audit the contractor's activities during the construction period on a weekly basis, and to report on the contractor's performance.

Results and Observations

- 5.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix I**.
- 5.3 No non-compliance of the landscape and visual impact was recorded in the reporting month.
- 5.4 In accordance with the Action Plan presented in **Appendix J**, no corrective actions were required in the reporting month.

6. ENVIRONMENTAL AUDIT

Site Audits

- 6.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.
- 6.2 Site audits were conducted on 8th, 15th, 20th and 29th January 2016 in the reporting month. IEC site inspection was conducted on 20th January 2016. No non-compliance was observed during the site audits.

Status of Environmental Licensing and Permitting

6.3 All permits/licenses obtained for the Project are summarized in Table 6.1.

Permit No.	Valid	Period	- Details	Status
reimit No.	From	То	— Details Sta	
Environmental Perm	it (EP)			
EP-337/2009	23/04/09	N/A	Construction of new distributor roads serving the planned Kai Tak development.	Valid
EP-344/2009	23/04/09	N/A	Construction of a new sewage pumping station serving the planned Kai Tak development with installed capacity of	
Effluent Discharge Li	Effluent Discharge License			
WT00020971-2015	Example 1Example 2Discharge Licence for the discharge of wastewater from the construction site including contaminated surface run-off to the communal storm water drain		Valid	
Registration of Chemical Waste Producer				
5213-286-K2958-05			Registration of chemical waste producer for chemical waste produced during construction of Stage 4 at former North Apron Area Infrastructure.	Valid

 Table 6.1
 Summary of Environmental Licensing and Permit Status

Status of Waste Management

- 6.4 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix M**.
- 6.5 In respect of the dump truck cover, the Contractor is advised to take record photos and inspection to ensure that the skips of all dump trucks have been fully covered before leaving the site.

Implementation Status of Environmental Mitigation Measures

6.6 During site inspections in the reporting month, no non-conformance was identified. ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in Table 6.2.

Parameters	Date	Observations and Recommendations	Follow-up	
Water Quality				
Air Quality				
Noise				
Waste/Chemical Management	15 January 2016	Reminder: Oil container was observed without a drip tray. The Contractor was reminded to provide a proper drip tray to prevent oil leakage.The oil conta 		
Landscape and Visual				
Permits /Licences				

 Table 6.2
 Observations and Recommendations of Site Inspections for EP-337/2009

	Observations and Recommendations of Site Inspections for EP-544/2009		
Parameters	Date	Observations and Recommendations	Follow-up
Water Quality			
Air Quality			
Noise			
Waste/Chemical Management			
Landscape and Visual			
Permits /Licences			

 Table 6.3
 Observations and Recommendations of Site Inspections for EP-344/2009

Summary of Mitigation Measures Implemented

6.7 The monthly IEC audit was carried out on 20th January 2016, the observations were recorded and they are presented as follows:

Follow up of last monthly audit:

• Kerosine in drum was observed beside a generator within PS2. Storage in chemical store or drip tray is reminded.

Observation(s) in the reporting month:

- No follow-up action are required. No adverse environmental impacts were observed during site inspection.
- 6.8 An updated summary of the EMIS is provided in **Appendix K**.

Implementation Status of Event Action Plans

6.9 The Event Action Plans for air quality, noise and landscape and visual are presented in Appendix J.

1-hr TSP Monitoring

6.10 No Action/Limit Level exceedance was recorded in the reporting month.

24-hr TSP Monitoring

6.11 No Action/Limit Level exceedance was recorded in the reporting month.

Construction Noise

6.12 No Action/Limit Level exceedance was recorded in the reporting month.

Landscape and visual

6.13 No non-compliance was recorded in the reporting month.

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

6.14 No environmental complaints and environmental prosecution were received in the reporting month. The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project are presented in **Appendix L**.

7. FUTURE KEY ISSUES

- 7.1 Major site activities undertaken for the coming two months include:
 - Daily Clearance;
 - Backfilling of box culvert B5;
 - Excavation of trench for sewers;
 - Concerting of base slab and walls of NPS.
 - Installation of DN750 drainage pipe at L19;
 - Excavation of Box culvert B6;
 - Installation of precast box culvert B6;
 - Installation of DCS;
 - Fixing of reinforcement and concreting to walls and slab of pumping station for PS2;
 - Laying concrete pipes DN750 from FMH10_345 to FHH10_350;
 - Excavation and installation of clay pipe in Portion 4;
 - Construction of jacking pits 10, 11, 3 & 4; and
 - Widening works of Sung Wong Toi Road.
- 7.2 The tentative construction program for the Project is provided in **Appendix N.**

Key Issues for the Coming Month

- 7.3 Key environmental issues in the coming month include:
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
 - Water spraying for dust generating activity and on haul road;
 - Proper storage of construction materials on site;
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Accumulation of general and construction waste on site;
 - Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site; and
 - Review and implementation of temporary drainage system for the surface runoff.
- 7.4 The tentative program of major site activities and the impact prediction and environmental mitigation measures for the coming two months, i.e. February 2016 and March 2016 are summarized as follows:

Table 7.1	Summary of the tentative program of major site activities, the impact prediction
	and control measures for February 2016 and March 2016

Construction Works	Major Impact Prediction	Control Measures
As mentioned in Section 7.1	Air quality impact (dust) Water quality impact (surface run-off)	 a) Frequent watering of haul road and unpaved/exposed areas; b) Frequent watering or covering stockpiles with tarpaulin or similar means; and c) Watering of any earth moving activities. d) Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains; e) Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; f) Provision of site boundary bund such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and g) Provision of measures to prevent discharge into the
	Noise Impact	 stream. h) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; i) Controlling the number of plants use on site; j) Regular maintenance of machines; and k) Use of acoustic barriers if necessary.

Monitoring Schedule for the Next Month

7.5 The tentative environmental monitoring schedules for the next month are shown in **Appendix D**.

8. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

8.1 Environmental monitoring works required under the EM&A Manual were performed in the reporting month and all monitoring results were checked and reviewed.

1-hr TSP Monitoring

8.2 All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. 1-hour TSP concentrations in all stations in the reporting month were below the prediction in the approved Environmental Impact Assessment (EIA) Report.

24-hr TSP Monitoring

8.3 All 24-hr TSP monitoring required under the EM&A Manual was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. 24-hour TSP concentrations in all stations in the reporting month were below the prediction in the approved Environmental Impact Assessment (EIA) Report.

Construction Noise Monitoring

8.4 All construction noise monitoring was conducted as scheduled in the reporting month. No Action and Limit Level exceedance was recorded. The construction noise levels in all stations in the reporting month were within the range of predicted mitigated construction noise levels in the approved Environmental Impact Assessment (EIA) report.

Complaints, Notification of any Summons and Prosecution Received

8.5 No environmental complaints and environmental prosecution were received in the reporting month. The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project are presented in **Appendix L**.

Recommendations

8.6 According to the environmental audit performed in the reporting month, the following recommendations were made:

Air Quality Impact

- To implement dust suppression measures on all haul roads, stockpiles, dry surfaces and excavation works.
- To mitigate the dust generation by adequate water spraying in dry days.

Noise Impact

- To inspect the noise sources inside the site.
- To disperse the locations of noisy equipments and position the equipments as far away as possible from sensitive receivers.
- To provide temporary noise barriers for operations of noisy equipment near the noise sensitive receivers in an appropriate location.

Water Impact

- To prevent any surface runoff discharge into any stream course.
- To review and implement temporary drainage system.
- To identify any wastewater discharges from site.
- To ensure properly maintenance for de-silting facilities.
- To clear the silt and sediment in the sedimentation tanks.
- To review the capacity of de-silting facilities for discharge.
- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge.

Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site.
- To ensure the performance of sorting of C&D materials at source (during generation);
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the site.
- To provide proper storage area or drip trays for oil containers/ equipment on site.
- To avoid improper handling or storage of oil drum on site.

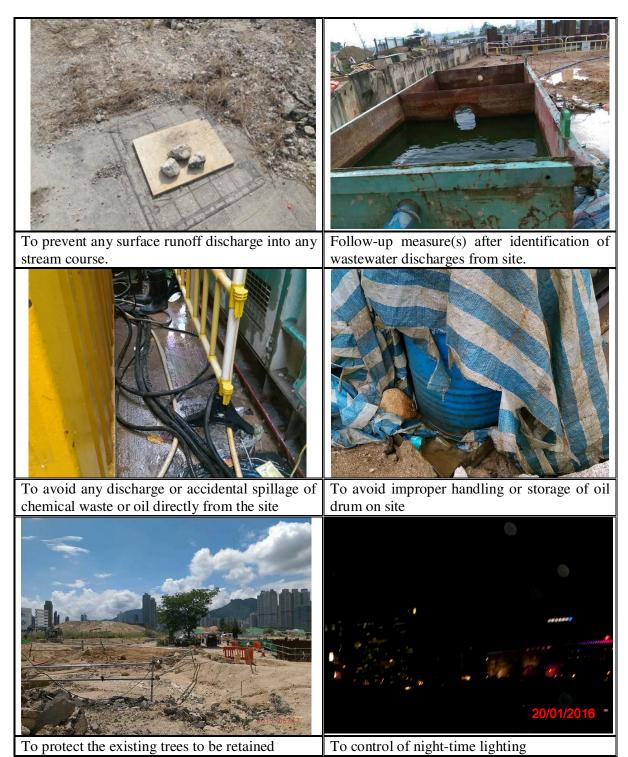
Landscape and Visual

- To protect the existing trees to be retained.
- To transplant the trees unavoidably affected by the works.
- To control of night-time lighting.
- To provide decorative screen hoarding.
- To complete landscape works at site area as early as possible.

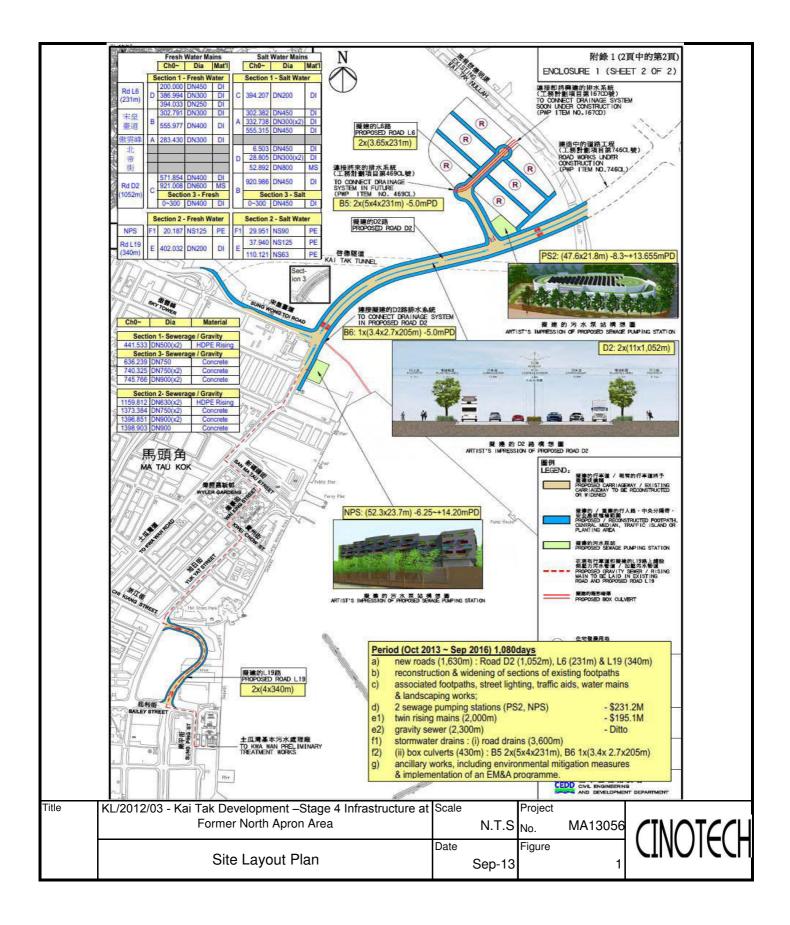
Effectiveness of Environmental Management

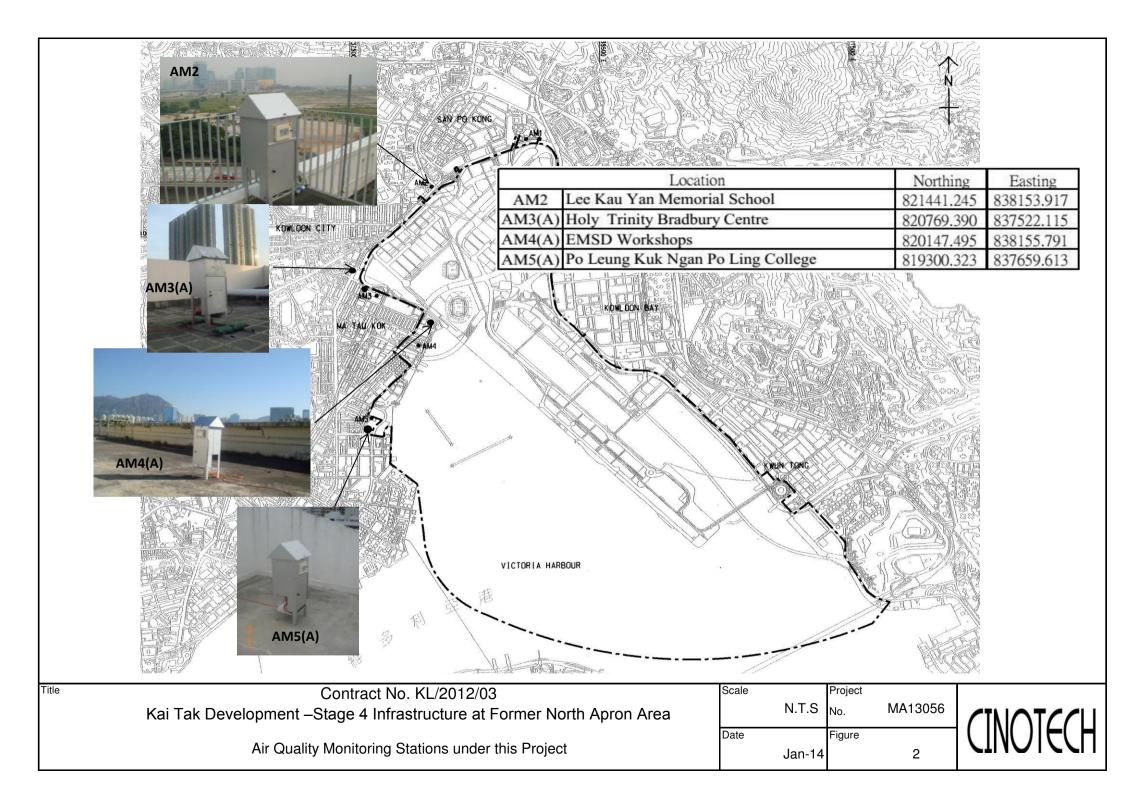
- 8.7 The above recommendations and the recommended mitigation measures in the EM&A Manual were carried out by the Contractor during construction. No non-compliance was recorded during the environmental site inspections as shown in **Appendix I**.
- 8.8 The effectiveness of environmental management is satisfactory as the above recommendations are met. Some of the examples of mitigation measures for the following recommendations are given in **Table 8.1** below.
 - Surface runoff discharge into any stream course is prevented;
 - Provision of sedimentation facilities after identification of wastewater discharges from site;
 - Discharge or accidental spillage of chemical waste or oil directly from the site is avoided;
 - Improper handling or storage of oil drum on site is avoided;
 - The existing trees to be retained are protected; and
 - Night-time lighting is controlled.

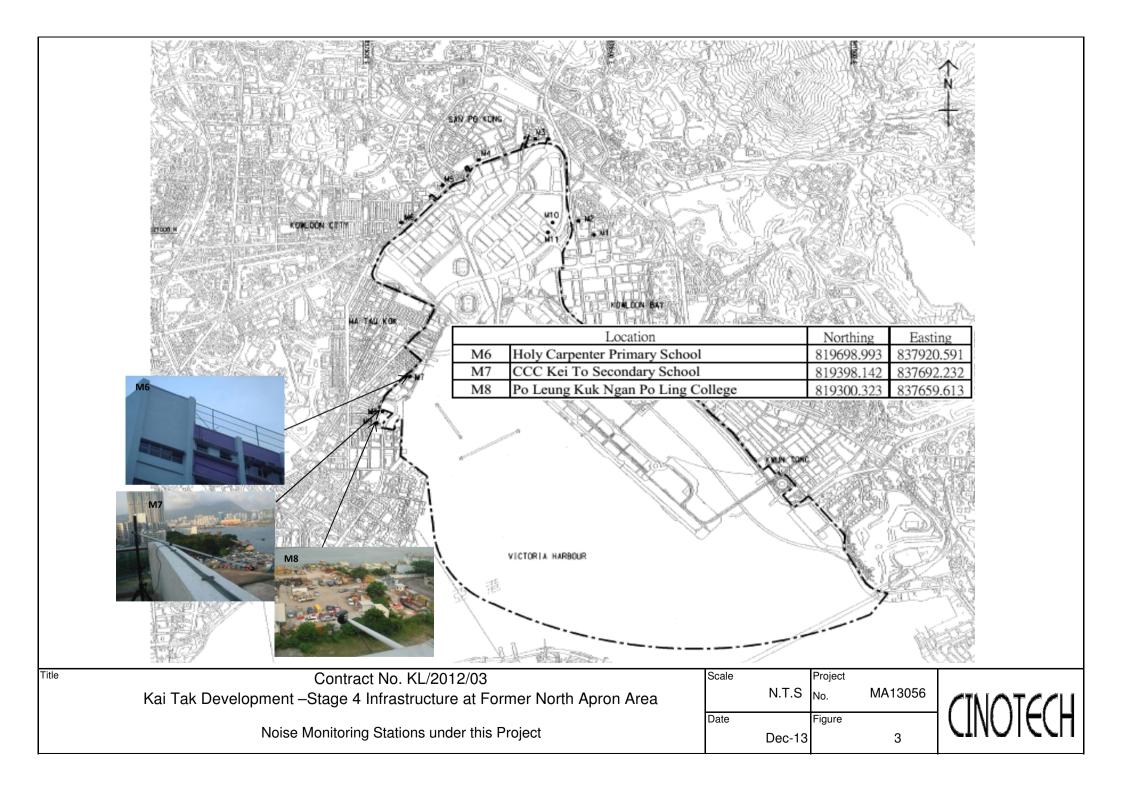
Table 8.1 Examples of Mitigation Measures for Environmental Recommendations

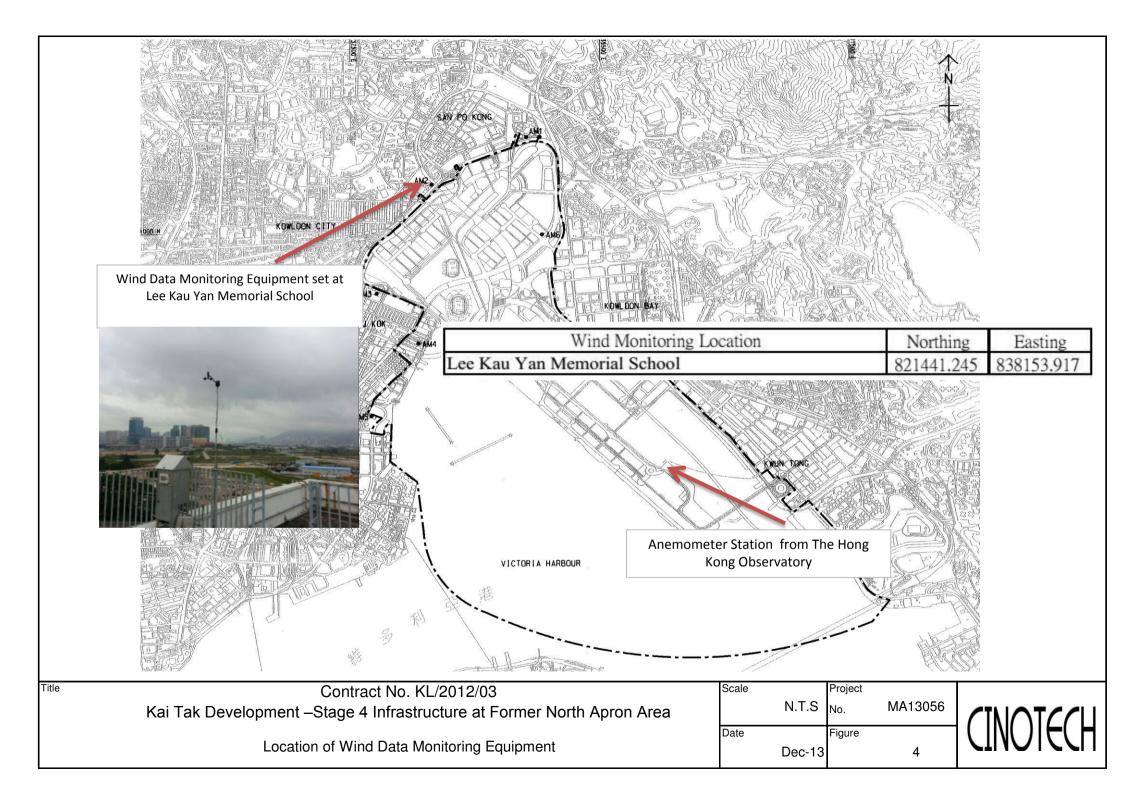


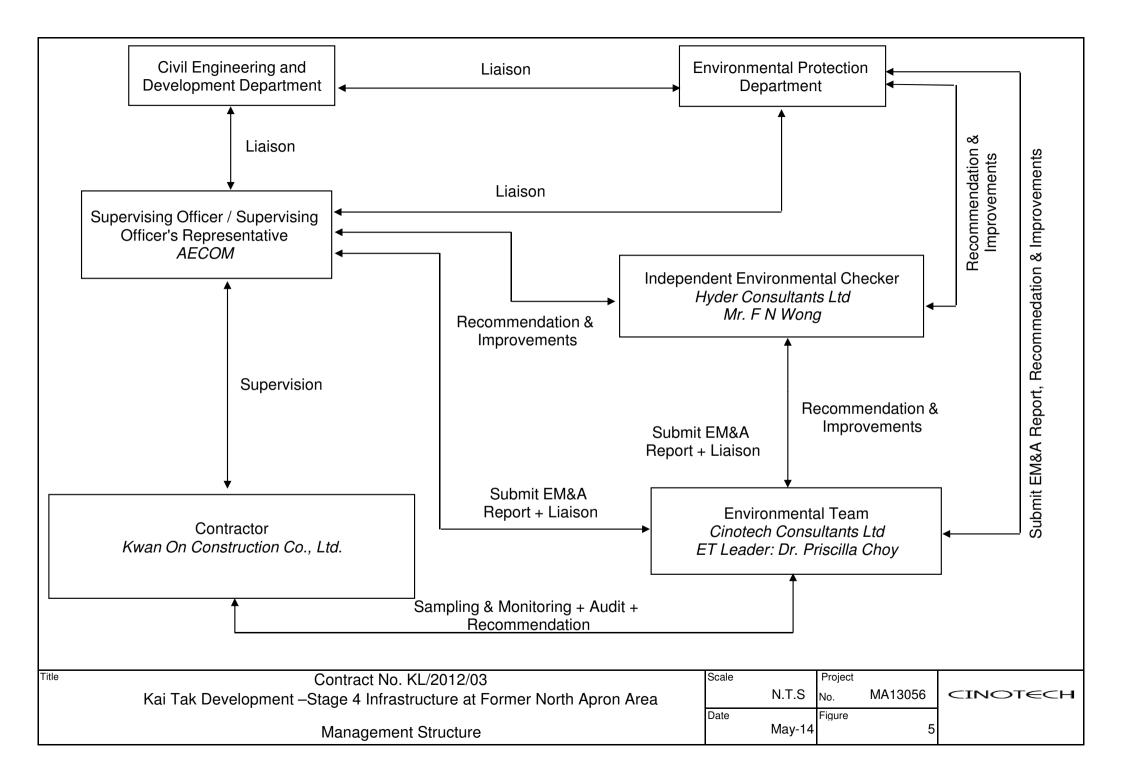
FIGURES











APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

Location	Action Level, µg/m ³	Limit Level, µg/m ³
AM2	346	
AM3(A)	351	500
AM4(A)	371	500
AM5(A)	345	

Table A-1 Action and Limit Levels for 1-Hour TSP

Table A-2	Action and Limit Levels for 24-Hour TSP

Location	Action Level, μg/m ³	Limit Level, µg/m ³
AM2	157	
AM3(A)	167	260
AM4(A)	187	- 260
AM5(A)	156	

Table A-3 Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

Remarks: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed. *70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods, respectively.

APPENDIX B COPIES OF CALIBRATION CERTIFCATES



		54 01		1101. 2111		File No. MA14008/59/0033
Station	AM2 - Lee Kau	Yan Memorial S		_	WK	
Date:	11-Dec-15		-		10-Feb-	
Equipment No.:	A-01-59		-	Serial No.	2354	
			Ambient	Ambient Condition		
	re, Ta (K)	295.4	Pressure, Pa	a (mmHg)		763.2
			ide Therefore Ct			
		A-04-06	Slope, mc (CFM		Intercept	
Equipme Last Calibra		4-Feb-15			$bc = [\Delta H \times (Pa/76)]$	
		3-Feb-16	-	$Ostd = {IAH}$	x (Pa/760) x (298	$(Ta)^{1/2} - bc \} / mc$
Next Calibra	ation Date:	3-F60-10		Qatu ([211]	(111/00) X (250	1
			Calibration o	f TSP Sampler		
Calibration		Oı	fice			HVS
Point	∆H (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	∆W (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)] ^{1/2} Y- axis
1	11.6		3.43	58.21	7.8	2.81
2	9.8		3.15	53.54	6.7	2.61
3	7,4		2.74	46.57	5.1	2.27
4	5.2		2,30	39.10	3.3	1.83
5	3.3		1.83	31,22	2.0	1.42
By Linear Regr Slope , mw = Correlation c			9989	Intercept, bw	-0.193	
If Correlation C	Coefficient < 0.99	0, check and rec	calibrate.			
angan nananga galata Litut di Litut di		n na sanan na sa	Set Point	Calculation		an a
rom the TSP Fi	eld Calibration C	urve, take Qstd	= 43 CFM			
rom the Regres	sion Equation, th	e "Y" value acco	ording to			
		mw x	$Ostd + bw = [\Delta W]$	' x (Pa/760) x (2	.98/Ta)] ^{1/2}	
	. .					
Therefore, S	et Point; W = (m	w x Qstd + bw)) ² x (760 / Pa) x (Ta / 298) =	4.13	
				······································	<u></u>	
Remarks:					,	
						1 1.5
Conducted by:	WK. Jang	Signature:	Kin	joni/	-	Date: $1(2)^{3}$
Checked by:	<u>Ap</u>	Signature:	<u></u>	\bigwedge	•	Date: <u>11 December de</u>
	•		(



						File No.	MA14008/49/0031
Station	AM3(A) - Holy	Trinity Bradbu	y Centre	Operator:	:: <u>WK</u>		
Date:	11-Dec-15		Next Due Date:		10-Feb-16		
Equipment No.:	: A-01-49		-	Serial No.	1793		
			-				
			Ambient Condition				
Temperatu	re, Ta (K)	294.5	Pressure, Pa	(mmHg)		764.1	
n in de la del de la La del de la		Or	ifice Transfer Star	ndard Informa	ation		
Equipme	ent No.:	A-04-06	Slope, mc (CFM)		Intercept	<u> </u>	-0.02195
Last Calibra	ation Date:	4-Feb-15	-		e = [ΔH x (Pa/760		
Next Calibra	ation Date:	3-Feb-16		$Qstd = \{ [\Delta H x] \}$	(Pa/760) x (298/	$[a]^{1/2} - bc\} /$	mc
		•					
			Calibration of	FSP Sampler	ngan National Antonio (Margar) Magazi (Margar) Margari		
Calibration		0	rfice			HVS	1/2
Point	∆H (orifice), in. of water	[ΔH x (Pa/7	60) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		760) x (298/Ta)] ^{1/2} Y-axis
1	11.4		3.41	57.84	8.2		2.89
2	9.7		3.14	53.38	6.7		2.61
3	7.5		2.76	46.98	5.2		2.30
4	5.2		2.30	39.18	3.3		1.83
_		1		1 1	1		1
5 By Linear Begr	3.4	1 	1.86	31.75	2.2		1.50
By Linear Regr Slope , mw = Correlation c *If Correlation (ression of Y on X <u>0.0536</u> oefficient* = Coefficient < 0.99	0. 0, check and re	9989 ccalibrate.	Intercept, bw =	-0.230	······································	1.50
By Linear Regr Slope , mw = Correlation c *If Correlation (ression of Y on X <u>0.0536</u> oefficient* = Coefficient < 0.99	0. 0, check and re	9989 ccalibrate. Set Point Ca	Intercept, bw =	Ε	······································	1.50
By Linear Regr Slope , mw = Correlation c *If Correlation (From the TSP Fi	ession of Y on X 0.0536 oefficient* = Coefficient < 0.99 ield Calibration C	0, check and re Curve, take Qsto	9989 ccalibrate. Set Point Ca 1 = 43 CFM	Intercept, bw =	-0.230	······································	1.50
By Linear Regr Slope , mw = Correlation c *If Correlation (From the TSP Fi	ression of Y on X <u>0.0536</u> oefficient* = Coefficient < 0.99	0, check and re Curve, take Qsto	9989 ccalibrate. Set Point Ca 1 = 43 CFM	Intercept, bw =	-0.230	······································	1.50
By Linear Regr Slope , mw = Correlation c *If Correlation (From the TSP Fi	ession of Y on X 0.0536 oefficient* = Coefficient < 0.99 ield Calibration C	0, check and re 0, check and re Curve, take Qsto e "Y" value acc	9989 ccalibrate. Set Point Ca 1 = 43 CFM	Intercept, bw : Alculation	-0.230	······································	1.50
By Linear Regr Slope , mw = Correlation c *If Correlation (Prom the TSP Fi From the Regres	ession of Y on X 0.0536 oefficient* = Coefficient < 0.99 ield Calibration C ssion Equation, th	0, check and re 0, check and re Curve, take Qsto e "Y" value acc mw x (9989 ccalibrate. Set Point Ca 1 = 43 CFM cording to	Intercept, bw - alculation (Pa/760) x (29	-0.230		1.50
By Linear Regr Slope , mw = Correlation c *If Correlation (Prom the TSP Fi From the Regres	ession of Y on X 0.0536 oefficient* = Coefficient < 0.99 ield Calibration C ssion Equation, th	0, check and re 0, check and re Curve, take Qsto e "Y" value acc mw x (9989 scalibrate. Set Point Ca 1 = 43 CFM cording to Qstd + bw = [ΔW x	Intercept, bw - alculation (Pa/760) x (29	-0.230		1.50
By Linear Regr Slope , mw = Correlation c *If Correlation (Prom the TSP Fi From the Regres	ession of Y on X 0.0536 oefficient* = Coefficient < 0.99 ield Calibration C ssion Equation, th	0, 0, check and re Curve, take Qsto e "Y" value acc mw x (9989 scalibrate. Set Point Ca 1 = 43 CFM cording to Qstd + bw = [ΔW x	Intercept, bw - alculation (Pa/760) x (29	-0.230		1.50



						File No.	MA14008/62/0032
Station	AM4(A) - EMSI	O Workshops		Operator:	WK		
Date:	11-Dec-15		Next Due Date:		10-Feb-16		
Equipment No.:	No.: <u>A-01-62</u>		-	Serial No.	2351		
			Ambient Condition				
Temperatur		295.8	Pressure, Pa		i	763.3	·
F				<u> </u>			
		Or	ifice Transfer Sta	ndard Inform	ation		
Equipment No.: A-04-06			Slope, mc (CFM)		Intercept	· · · · · · · · · · · · · · · · · · ·	-0.02195
Last Calibra	tion Date:	4-Feb-15	-		e = [ΔH x (Pa/760		
Next Calibra	ation Date:	3-Feb-16		$Qstd = \{ [\Delta H x] \}$	(Pa/760) x (298/	Га)] ^{1/2} -bc} /	mc
		•					
			Calibration of	TSP Sampler			
Calibration		0	rfice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/7	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[∆W x (Pa	(760) x (298/Ta)] ^{1/2} Y-axis
1	11.8		3.46	58.68	8.1		2.86
2	9.7		3.13	53.23	6.4		2.54
3	7.6		2.77	47.16	5.1		2.27
4	5.2		2.29	39.08	3.3		1.83
5	3.4		1.85	31.67	2.1		1.46
By Linear Regr Slope , mw = Correlation co *If Correlation C	0.0517 pefficient* =	0.	9996	Intercept, bw =	-0.185	1	
		and a state of the	Set Point Ca	alculation			
From the TSP Fi From the Regres	eld Calibration C sion Equation, th	Curve, take Qstc e "Y" value acc mw x (I = 43 CFM	(Pa/760) x (29			
Remarks:							
Remarks: Conducted by: Checked by:	Wk. Jang. 14	Signature: Signature:	Kin	iorí Aus		Date: Date:	11 12 15 11 December 2



						File No.	MA14008/60/0033
station	AM5(A) - Po Le	ung Kuk Ngan I	Po Ling College	Operator:	WK		
ate:	11-Dec-15		_ 1	Next Due Date:1		10-Feb-16	
quipment No.:	A-01-60		-	Serial No.	2358		
			Ambient	Condition			
Temperatur	re, Ta (K)	294.8	Pressure, Pa			764.7	
			den Transfor St	and Inform			
Orifice Transfer Standard Informat Equipment No.: A-04-06 Slope, mc (CFM) 0.0593				Intercep	t. bc	-0.02195	
Last Calibra		4-Feb-15			$bc = [\Delta H \times (Pa/76)]$		
Next Calibra		3-Feb-16	-		x (Pa/760) x (298		
		1	-				
			Calibration of	TSP Sampler			
Calibration		01	fice	<u> </u>		HVS	1/2
Point	∆H (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/7	60) x (298/Ta)] ^{1/2} Y- axis
1	11.8		3.46	58.83	7.9		2.83
2	9.8		3.16	53.64	6.4		2,55
3	7.5		2.76	46.98	5.1		2.28
4	5.2		2.30	39.18	3.4		1.86
5	3.3		1.83	31.28	2.1		1.46
Slope , mw = Correlation co		0.9	9993	Intercept, bw : -	-0.077	0	
If Correlation C	oefficient < 0.99	0, check and rec	alibrate.				
			Set Point C	Calculation			
om the TSP Fie	eld Calibration C	urve, take Qstd	= 43 CFM				
om the Regress	sion Equation, the	e "Y" value acco	ording to				
		mw x	Qstd + bw = [∆W	x (Pa/760) x (2	(98/Ta)] ^{1/2}		
				. , .			
Therefore, Se	et Point; $W = (m)$	w x Qstd + bw)	² x (760 / Pa) x ('	Ta / 298) =	4,13		
emarks:							
				/			
onducted by:	Falk Jang	Signature:	/ii	noi /		Date:	11/12/15 1 December 20
Checked by:	Itro	Signature:				Date:	(December 2
•						_	



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

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

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Date - Fe Operator		6 Rootsmeter Orifice I.I		438320 2896	Ta (K) - Pa (mm) -	293 - 756.92
PLATE OR Run # 1 2	VOLUME START (m3) NA NA	VOLUME STOP (m3) NA NA	DIFF VOLUME (m3) 1.00 1.00	DIFF TIME (min) 1.4590 1.0330	METER DIFF Hg (mm) 3.2 6.4	ORFICE DIFF H2O (in.) 2.00 4.00
3 4 5	NA NA NA	NA NA NA	1.00 1.00 1.00	0.9250 0.8800 0.7260	7.9 8.8 12.7	5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0086 1.0044 1.0023 1.0011 0.9959	0.6913 0.9723 1.0835 1.1377 1.3718	1.4233 2.0129 2.2505 2.3603 2.8467		0.9958 0.9916 0.9895 0.9884 0.9832	0.6825 0.9599 1.0697 1.1231 1.3542	0.8799 1.2443 1.3912 1.4591 1.7598
Qstd slop intercept coefficie	(b) =	2.09317 -0.02195 0.99997		Qa slope intercept coefficie	z (b) =	1.31071 -0.01357 0.99997
y axis =	SQRT [H2O (I	Pa/760) (298/5	[[a)]	y axis =	SQRT [H20 (7	[a/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 = $1/m\{ [SQRT(H2O(Ta/Pa)] - b \}$

ELLAB ^{iesting & Research} TEST REPORT **Cinotech Consultants Limited** Test Report No .: C/150826A APPLICANT: Date of Issue: Room 1710, Technology Park, 2015-08-26 Date Received: 18 On Lai Street, 2015-08-26 Shatin, NT, Hong Kong Date Tested: 2015-08-26 Date Completed: 2015-08-26 Next Due Date: 2016-02-25 Page: 1 of 2 **ATTN:** Miss Mei Ling Tang **Certificate of Calibration** Item for calibration: Description : Weather Monitor II Manufacturer : Davis Instruments Model No. :7440 Serial No. : MC01010A44 **Test conditions: Room Temperature** : 23 degree Celsius : 58 %

Test Specifications:

1. Performance check of anemometer

Relative Humidity

2. Performance check of wind direction sensor

Methodology:

In-house method with reference anemometer (RS232 Integral Vane Digital Anemometer)

PA'TRICK TSE Laboratory Manager



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TEST REPORT

Test Report No.:	C/150826A
Date of Issue:	2015-08-26
Date Received:	2015-08-26
Date Tested:	2015-08-26
Date Completed:	2015-08-26
Next Due Date:	2016-02-25
Page:	2 of 2

Results:

1. Performance check of anemometer

Air Velo	Difference D (m/s)		
Instrument Reading (V1)	Instrument Reading (V1) Reference Value (V1)		
2.00			

2. Performance check of wind direction sensor

Wind Direction ($^{\circ}$)		Difference D (°)
Instrument Reading (W1)	Reference Value (W2)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
0	0	0
45.1	45	0.1
90	90	0
135.1	135	0.1
180.4	180	0.4
225.3	225	0.3
270.1	270	0.1
315.2	315	0.2
360	360	0

WELLAB 匯 Testing & Research 力 WELLAB LIMITED Rms 1516, 1701 & 1716, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

1 of 1

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No.:	C/160108/1
	Room 1710, Technology Park,	Date of Issue:	2016-01-11
	18 On Lai Street,	Date Received:	2016-01-08
	Shatin, NT, Hong Kong	Date Tested:	2016-01-08
		Date Completed:	2016-01-11
		Next Due Date:	2016-03-10

Page:

ATTN:

Mr. W.K. Tang

Certificate of Calibration		
Item for Calibration:		
Description	: Laser Dust Monitor	
Manufacturer	: Sibata	
Model No.	: LD-3	
Serial No.	: 251634	
Sensitivity (K) 1 CPM	$: 0.001 \text{ mg/m}^3$	
Sen. Adjustment Scale Setting	: 550 CPM	
Equipment No.	: A-02-01	
Test Conditions:		
Room Temperature	: 22 degree Celsius	
Relative Humidity	: 59 %	

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.

2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:	
Correlation Factor (CF)	0.0033

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PATRICK TSE Laboratory Manager



C/160108/2

2016-01-11

2016-01-08

2016-01-08

2016-01-11

2016-03-10

1 of 1

Next Due Date:

Page:

TEST REPORT

APPLICANT:Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong KongTest Report No.:
Date of Issue:
Date Received:
Date Tested:
Date Completed:

ATTN:

Mr. W. K. Tang

Certificate of Calibration		
Item for Calibration:		
Description	: Laser Dust Monitor	
Manufacturer	: Sibata	
Model No.	: LD-3B	
Serial No.	: 853944	
Sensitivity (K) 1 CPM	: 0.001 mg/m ³	
Sen. Adjustment Scale Setting	: 685 CPM	
Equipment No.	: A-02-04	
Test Conditions:		
Room Temperature	: 22 degree Celsius	
Relative Humidity	: 59 %	

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.

2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:	
Correlation Factor (CF)	0.0033

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

PATRICK TSE Laboratory Manager



TEST REPORT C/151218/1 **Cinotech Consultants Limited** Test Report No.: **APPLICANT:** 2015-12-21 Date of Issue: Room 1710, Technology Park, 2015-12-18 Date Received: 18 On Lai Street, 2015-12-18 Date Tested: Shatin, NT, Hong Kong 2015-12-21 Date Completed: Next Due Date: 2016-02-20 1 of 1 Page: Mr. WK Tang ATTN: **Certificate of Calibration Item for Calibration:** : Laser Dust Monitor Description : Sibata Manufacturer : LD-3B Model No. : 954253 Serial No. $: 0.001 \text{ mg/m}^3$ Sensitivity (K) 1 CPM :772 CPM Sen. Adjustment Scale Setting : A-02-05 Equipment No. **Test Conditions:** Room Temperature : 23 degree Celsius : 58 % **Relative Humidity**

Test Specifications & Methodology:

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

Results:

0.0032

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

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PATRICK TSE Laboratory Manager



TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	C/151224/1
Date of Issue:	2015-12-28
Date Received:	2015-12-24
Date Tested:	2015-12-24
Date Completed:	2015-12-28
Next Due Date:	2016-02-27
Page:	1 of 1

ATTN:

Mr. W. K. Tang

Certificate of Calibration		
Item for Calibration:		
Description	: Laser Dust Monitor	
Manufacturer	: Sibata	
Model No.	: LD-3B	
Serial No.	: 095039	
Sensitivity (K) 1 CPM	$: 0.001 \text{ mg/m}^3$	
Sen. Adjustment Scale Setting	: 764 CPM	
Equipment No.	: A-02-08	
Test Conditions:		
Room Temperature	: 22 degree Celsius	
Relative Humidity	: 59 %	

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.

2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:	
Correlation Factor (CF)	0.0031

PATRICK TSE Laboratory Manager



TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	C/151224/2
Date of Issue:	2015-12-28
Date Received:	2015-12-24
Date Tested:	2015-12-24
Date Completed:	2015-12-28
Next Due Date:	2016-02-27
Page:	1 of 1

ATTN:

Mr. W. K. Tang

Certificate of Calibration		
Item for Calibration:		
Description	: Laser Dust Monitor	
Manufacturer	: Sibata	
Model No.	: LD-3B	
Serial No.	: 095050	
Sensitivity (K) 1 CPM	$: 0.001 \text{ mg/m}^3$	
Sen. Adjustment Scale Setting	: 577 CPM	
Equipment No.	: A-02-09	
Test Conditions:		
Room Temperature	: 22 degree Celsius	
Relative Humidity	: 59 %	

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.

2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:	
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Correlation Factor (CF)	0.0031
*****	*****

PATRICK TSE Laboratory Manager



TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

51224/3
5-12-28
15-12-24
5-12-24
5-12-28
6-02-27
f 1

ATTN:

Mr. W. K. Tang

Certificate of Calibration		
Item for Calibration:		
Description	: Laser Dust Monitor	
Manufacturer	: Sibata	
Model No.	: LD-3B	
Serial No.	: 095029	
Sensitivity (K) 1 CPM	$: 0.001 \text{ mg/m}^3$	
Sen. Adjustment Scale Setting	: 551 CPM	
Equipment No.	: A-02-10	
Test Conditions:		
Room Temperature	: 22 degree Celsius	
Relative Humidity	: 59 %	

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.

2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Correlation Factor (CF)	0.0030
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PATRICK TSE Laboratory Manager



TEST REPORT Test Report No.: C/151211/2 **Cinotech Consultants Limited APPLICANT:** Date of Issue: 2015-12-14 Room 1710, Technology Park, Date Received: 2015-12-11 18 On Lai Street, Date Tested: 2015-12-11 Shatin, NT, Hong Kong Date Completed: 2015-12-14 Next Due Date: 2016-02-13 1 of 1 Page: ATTN: Mr. W.K. Tang **Certificate of Calibration Item for Calibration:** : Dust Monitor Description : Met One Instruments Manufacturer : AEROCET-531 Model No. : N6733 Serial No. :0.1 cfm Flow rate :0 mg (The result of the 2-minute sample) Zero Count Test : A-02-12 Equipment No. **Test Conditions:** : 23 degree Celsius Room Temperature : 59 % **Relative Humidity**

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.

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

Results:

Correlation Factor (CF)	1.050
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PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	C/151224/4
Date of Issue:	2015-12-28
Date Received:	2015-12-24
Date Tested:	2015-12-24
Date Completed:	2015-12-28
Next Due Date:	2016-02-27
Page:	1 of 1

ATTN:

Mr. W. K. Tang

Certificate of Calibration	
Item for Calibration:	
Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-531
Serial No.	: N6734
Flow rate	:0.1 cfm
Zero Count Test	:0 mg (The result of the 2-minute sample)
Equipment No.	: A-02-13
Test Conditions:	
Room Temperature	: 23 degree Celsius
Relative Humidity	: 56 %

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.

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

Results:	

Correlation Factor (CF)	1.033
****	****

PATRICK TSE Laboratory Manager



TEST REPORT Test Report No.: C/151211/3 APPLICANT: **Cinotech Consultants Limited** Date of Issue: 2015-12-14 Room 1710, Technology Park, Date Received: 2015-12-11 18 On Lai Street, Date Tested: 2015-12-11 Shatin, NT, Hong Kong 2015-12-14 Date Completed: Next Due Date: 2016-02-13 Page: 1 of 1 ATTN: Mr. W.K. Tang **Certificate of Calibration Item for Calibration:** : Dust Monitor Description

Manufacturer	: Met One Instruments
Model No.	: AEROCET-531
Serial No.	: N6735
Flow rate	:0.1 cfm
Zero Count Test	:0 mg (The result of the 2-minute sample)
Equipment No.	: A-02-14
Test Conditions:	
Room Temperature	: 23 degree Celsius
Relative Humidity	: 59 %

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.

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

Results:

Correlation Factor (CF)	1.023

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

PATRICK TSE Laboratory Manager



2016-09-20

1 of 1

TEST REPORT

Test Report No.: C/N/150918/2 **APPLICANT: Cinotech Consultants Limited** 2015-09-21 Date of Issue: Room 1710, Technology Park, Date Received: 2015-09-18 18 On Lai Street, 2015-09-18 Date Tested: Shatin, NT, Hong Kong 2015-09-21 Date Completed:

ATTN:

Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

: 'SVANTEK' Integrating Sound Level Meter
: SVANTEK
: SVAN 955
: 12563
: 34377
: N-08-03

Next Due Date:

Page:

Test conditions:

Room Temperatre **Relative Humidity** : 25 degree Celsius : 58%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

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

TRICK TSE Laboratory Manager



1 of 1

TEST REPORT

Test Report No.: **APPLICANT: Cinotech Consultants Limited** C/N/151231 Room 1710, Technology Park, Date of Issue: 2016-01-04 18 On Lai Street, Date Received: 2015-12-31 Shatin, NT, Hong Kong Date Tested: 2015-12-31 Date Completed: 2016-01-04 Next Due Date: 2017-01-03

ATTN:

Mr. W. K. Tang

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 955
Serial No.	: 14303
Microphone No.	: 35222
Equipment No.	: N-08-05

Page:

Test conditions:

Room Temperatre Relative Humidity : 22 degree Celsius : 53%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

Remark: 1)This report supersedes the one dated 2012/01/21 with certificate number C/N/120120/1.

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

PATRICK TSE Laboratory Manager



TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

C/N/150828/1
2015-08-31
2015-08-28
2015-08-28
2015-08-31
2016-08-30
1 of 1

ATTN: Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 21455
Microphone No.	: 43730
Equipment No.	: N-08-07

Test conditions:

Room Temperatre Relative Humidity : 24 degree Celsius : 58%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

PATRICK TSE

Laboratory Manager



TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	C/N/150821/3
Date of Issue:	2015-08-24
Date Received:	2015-08-21
Date Tested:	2015-08-21
Date Completed:	2015-08-24
Next Due Date:	2016-08-23
Page:	1 of 1

ATTN: Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 21459
Microphone No.	: 43676
Equipment No.	: N-08-08
* *	

Test conditions:

Room Temperatre Relative Humidity : 22 degree Celsius : 54%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

PATRICK TSE Laboratory Manager



TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	C/N/150821/1
Date of Issue:	2015-08-24
Date Received:	2015-08-21
Date Tested:	2015-08-21
Date Completed:	2015-08-24
Next Due Date:	2016-08-23
Page:	1 of 1

ATTN: Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 21460
Microphone No.	: 43679
Equipment No.	: N-08-09
1 64	

Test conditions:

Room Temperatre Relative Humidity : 22 degree Celsius : 54%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

PATRICK TSE Laboratory Manager



1 of 1

TEST REPORT

Test Report No.: C/N/151127/1 **Cinotech Consultants Limited APPLICANT:** Date of Issue: 2015-11-30 Room 1710, Technology Park, Date Received: 2015-11-27 18 On Lai Street, Date Tested: 2015-11-27 Shatin, NT, Hong Kong Date Completed: 2015-11-30 Next Due Date: 2016-11-29

ATTN: Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 23853
Microphone No.	: 48530
Equipment No.	: N-08-10

Page:

Test conditions:

Room Temperatre Relative Humidity : 24 degree Celsius : 62%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

PATRICK TSE Laboratory Manager



2016-11-29

1 of 1

TEST REPORT

APPLICANT:Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong KongTest Report No.:C/N/151127/3
Date of Issue:
2015-11-30Date Received:2015-11-27
Date Tested:
2015-11-27
Date Completed:2015-11-27
2015-11-27

ATTN: Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 23851
Microphone No.	: 48532
Equipment No.	: N-08-12
IS:	

Next Due Date:

Page:

Test conditions:

Room Temperatre Relative Humidity : 24 degree Celsius : 62%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

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

PATRICK TSE Laboratory Manager



TEST REPORT				
APPLICANT:	Cinotech Consultants L Room 1710, Technolog 18 On Lai Street, Shatin, NT, Hong Kong	y Park,	Test Report No.: Date of Issue: Date Received: Date Tested: Date Completed: Next Due Date:	C/N/150918/3 2015-09-21 2015-09-18 2015-09-18 2015-09-21 2016-09-20
ATTN:	Mr. W.K. Tang		Page:	1 of 1
Item for calibration:				
1	Description Manufacturer Model No.	: Acoustic : SVANTI : SV30A	al Calibrator EK	

: 10929

: N-09-01

Test conditions:

Room Temperatre		
Relative Humidity		

Serial No. Equipment No.

> : 25 degree Celsius : 58%

Methodology:

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

Results:

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

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

PATRICK TSE Laboratory Manager



TEST REPORT				
APPLICANT:	Cinotech Consultants L	imited	Test Report No.:	C/N/151031/1
	Room 1710, Technology	Park,	Date of Issue:	2015-11-02
	18 On Lai Street,		Date Received:	2015-10-31
	Shatin, NT, Hong Kong		Date Tested:	2015-10-31
			Date Completed:	2015-11-02
			Next Due Date:	2016-11-01
ATTN:	Mr. W.K. Tang		Page:	1 of 1
Item for calibi	ration:			
	Description	: Acoustica	al Calibrator	
	Manufacturer	: SVANTE	EK	
	Model No.	: SV30A		
	Serial No.	: 10965		
	Equipment No.	: N-09-02		
Test condition	s:			
	Room Temperatre	: 24 degree	e Celsius	
	Relative Humidity	: 56%		
Methodology:				
	The Sound Level Calibrat	or has bee	n calibrated in acco	ordance with the

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

Results:

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

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

PATRICK TSE Laboratory Manager



TEST REPORT					
APPLICANT:	Cinotech Consultants L Boom 1710 Technology		Test Report No.: Date of Issue:	C/N/151003/1 2015-10-04	
	Room 1710, Technology 18 On Lai Street,	I alk,	Date Received:	2015-10-04	
	Shatin, NT, Hong Kong	Ş	Date Tested:	2015-10-03	
			Date Completed: Next Due Date:	2015-10-04 2016-10-03	
ATTN:	Mr. W.K. Tang		Page:	1 of 1	
Item for calibration:					
I	Description	: Acoustica	al Calibrator		
ľ	Manufacturer	: SVANTE	ξK		
1	Model No.	: SV30A			
S	Serial No.	: 24803			
I	Equipment No.	: N-09-03			
Test conditions:	:				
Ι	Room Temperatre	: 23 degree	e Celsius		
Ι	Relative Humidity	: 57%			

Methodology:

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

Results:

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

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

PATRICK TSE Laboratory Manager



	TEST	FREPOR	T	
APPLICANT:	Cinotech Consultants 1	Limited	Test Report No.:	C/N/151003/3
	Room 1710, Technolog	y Park,	Date of Issue:	2015-10-04
	18 On Lai Street,		Date Received:	2015-10-03
	Shatin, NT, Hong Kon	g	Date Tested:	2015-10-03
		_	Date Completed:	2015-10-04
			Next Due Date:	2016-10-03
ATTN:	Mr. W.K. Tang		Page:	1 of 1
Item for calibr	ation:			
	Description	: Acoustic	al Calibrator	
	Manufacturer	: SVANTEK		
	Model No.	: SV30A		
	Serial No.	: 24791		
	Equipment No.	: N-09-04		
Test conditions	:			
	T T	00.1	a 1 ·	

Room Temperatre	: 23 degree Celsius
Relative Humidity	: 57%

Methodology:

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

Results:

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

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

PATRICK TSE Laboratory Manager



	TEST	ſ REPOF	RT	
APPLICANT:	Cinotech Consultants I Room 1710, Technolog 18 On Lai Street, Shatin, NT, Hong Kong	y Park,	Test Report No.: Date of Issue: Date Received: Date Tested:	C/N/151003/2 2015-10-04 2015-10-03 2015-10-03
		ő	Date Completed: Next Due Date:	2015-10-03 2015-10-04 2016-10-03
ATTN:	Mr. W.K. Tang		Page:	1 of 1
Item for calibr	ation:			
	Description Manufacturer Model No. Serial No. Equipment No.	: Acoustic : SVANTI : SV30A : 24780 : N-09-05	al Calibrator EK	
Test conditions	š:			
	Room Temperatre Relative Humidity	: 23 degree : 57%	e Celsius	

Methodology:

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

Results:

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

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

atthe /10

PATRICK TSE Laboratory Manager



APPLICANT:	Cinotech Consultants L Room 1710, Technology 18 On Lai Street, Shatin, NT, Hong Kong	y Park,	Test Report No.: Date of Issue: Date Received: Date Tested: Date Completed: Next Due Date:	C/N/151106/1 2015-11-07 2015-11-06 2015-11-06 2015-11-07 2016-11-06
ATTN:	Mr. W.K. Tang		Page:	1 of 1
Item for calibra	ation:			
]] ;	Description Manufacturer Model No. Serial No. Equipment No.	: Acoustica : Brüel & I : 4231 : 2326353 : N-02-01	al Calibrator Kjær	
Test conditions	:			
	Room Temperatre Relative Humidity	: 23 degree : 56 %	e Celsius	

Methodology:

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

Results:

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

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

PATRICK TSE Laboratory Manager



TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	C/N/150821/4
Date of Issue:	2015-08-24
Date Received:	2015-08-21
Date Tested:	2015-08-21
Date Completed:	2015-08-24
Next Due Date:	2016-08-23
Page:	1 of 1

ATTN:

Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

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

Test conditions:

Room Temperatre Relative Humidity : 22 degree Celsius : 54%

Methodology:

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

Results:

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

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

PATRICK TSE

Laboratory Manager

APPENDIX C WEATHER INFORMATION

APPENDIX C – WEATHER CONDITIONS DURING THE MONITORING PERIOD

I. General Information

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 January 2016	16.8 – 19.9	64 - 81	Trace
2 January 2016	17.2 - 21.7	68 – 91	0.3
3 January 2016	18.0 - 20.3	88 - 98	5.6
4 January 2016	19.1 – 22.3	83 - 96	Trace
5 January 2016	20.2 - 21.3	92 - 98	46.7
6 January 2016	19.0 - 24.3	67 – 98	Trace
7 January 2016	17.0 - 21.4	69 – 86	0
8 January 2016	16.5 - 21.0	64 – 87	0
9 January 2016	17.1 – 18.9	73 – 83	0
10 January 2016	17.2 – 18.5	78 – 97	6.9
11 January 2016	16.5 - 20.4	78 – 99	30.7
12 January 2016	16.1 – 18.5	72 - 88	0
13 January 2016	14.2 – 18.7	67 – 84	0
14 January 2016	15.6 – 17.5	73 – 94	1.1
15 January 2016	14.5 – 16.1	93 - 98	38.8
16 January 2016	15.5 – 17.1	92 - 98	12.3
17 January 2016	14.8 - 20.6	75 – 99	24.6
18 January 2016	11.9 – 17.8	70 – 84	0
19 January 2016	15.3 – 17.6	70 - 83	0

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
20 January 2016	14.8 – 16.8	80 – 96	3.3
21 January 2016	15.1 – 17.1	93 – 97	0.1
22 January 2016	10.3 – 16.2	83 – 97	12.9
23 January 2016	7.0 - 10.4	64 – 79	0.5
24 January 2016	3.1 – 7.1	44 - 85	4.0
25 January 2016	4.3 - 10.8	33 - 58	0
26 January 2016	8.1 – 13.5	42 - 80	Trace
27 January 2016	9.8 – 15.3	81 – 96	3.5
28 January 2016	14.8 – 17.4	93 – 99	42.5
29 January 2016	15.9 – 17.4	92 – 99	32.8
30 January 2016	16.2 – 19.9	77 – 95	0
31 January 2016	15.3 – 16.2	82 - 93	0.3

I. General Information

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

Date	Time	Wind Speed m/s	Direction
1-Jan-2016	0:00	1.7	SSE
1-Jan-2016	1:00	1.6	S
1-Jan-2016	2:00	1.3	ESE
1-Jan-2016	3:00	1.2	SSE
1-Jan-2016	4:00	1	S
1-Jan-2016	5:00	1.3	S
1-Jan-2016	6:00	1.2	SSW
1-Jan-2016	7:00	1.7	SSE
1-Jan-2016	8:00	1.8	ESE
1-Jan-2016	9:00	2.4	E
1-Jan-2016	10:00	2.5	ESE
1-Jan-2016	11:00	2.7	ENE
1-Jan-2016	12:00	3	Ν
1-Jan-2016	13:00	2.9	ENE
1-Jan-2016	14:00	2.7	ENE
1-Jan-2016	15:00	3	ENE
1-Jan-2016	16:00	2.8	E
1-Jan-2016	17:00	2.4	SE
1-Jan-2016	18:00	2	NE
1-Jan-2016	19:00	1.2	NE
1-Jan-2016	20:00	1.2	ENE
1-Jan-2016	21:00	1.5	ENE
1-Jan-2016	22:00	1.7	SE
1-Jan-2016	23:00	1.3	SSE
2-Jan-2016	0:00	1	E
2-Jan-2016	1:00	0.9	E
2-Jan-2016	2:00	1.1	E
2-Jan-2016	3:00	0.8	ESE
2-Jan-2016	4:00	0.9	ESE
2-Jan-2016	5:00	0.8	SSE
2-Jan-2016	6:00	0.7	SSE
2-Jan-2016	7:00	0.7	ESE
2-Jan-2016	8:00	0.6	SE
2-Jan-2016	9:00	0.7	SSE
2-Jan-2016	10:00	1.4	SE
2-Jan-2016	11:00	1.4	SE

2-Jan-2016	12:00	1.6	SSE
2-Jan-2016	13:00	1.6	SSE
2-Jan-2016	14:00	1.7	SSE
2-Jan-2016	15:00	1.7	SSE
2-Jan-2016	16:00	1.8	SSE
2-Jan-2016	17:00	1.6	E
2-Jan-2016	18:00	1.3	E
2-Jan-2016	19:00	1.1	E
2-Jan-2016	20:00	0.9	E
2-Jan-2016	21:00	1.2	E
2-Jan-2016	22:00	1.2	E
2-Jan-2016	23:00	1	NE
3-Jan-2016	0:00	1.1	NE
3-Jan-2016	1:00	1.1	ENE
3-Jan-2016	2:00	1	ENE
3-Jan-2016	3:00	1.2	ESE
3-Jan-2016	4:00	1.2	NE
3-Jan-2016	5:00	1.1	NNE
3-Jan-2016	6:00	1	ESE
3-Jan-2016	7:00	1.3	NNE
3-Jan-2016	8:00	1.2	NE
3-Jan-2016	9:00	1.2	W
3-Jan-2016	10:00	1.7	NNE
3-Jan-2016	11:00	1.7	Ν
3-Jan-2016	12:00	1.8	NE
3-Jan-2016	13:00	2	NE
3-Jan-2016	14:00	2.2	NE
3-Jan-2016	15:00	2.6	NE
3-Jan-2016	16:00	2.4	NNE
3-Jan-2016	17:00	1.7	NE
3-Jan-2016	18:00	2	ENE
3-Jan-2016	19:00	1.8	ENE
3-Jan-2016	20:00	1.5	NE
3-Jan-2016	21:00	1.4	Ν
3-Jan-2016	22:00	1.5	NNE
3-Jan-2016	23:00	1.3	NNE
4-Jan-2016	0:00	1.4	NNE

4-Jan-2016	1:00	1.8	ENE
4-Jan-2016	2:00	1.8	ENE
4-Jan-2016	3:00	1.7	ENE
4-Jan-2016	4:00	1.8	ENE
4-Jan-2016	5:00	2	E
4-Jan-2016	6:00	2	NE
4-Jan-2016	7:00	1.9	N
4-Jan-2016	8:00	2.1	N
4-Jan-2016	9:00	2.4	E
4-Jan-2016	10:00	2.5	ENE
4-Jan-2016	11:00	2.7	ENE
4-Jan-2016	12:00	2.7	ENE
4-Jan-2016	13:00	2.9	ENE
4-Jan-2016	14:00	3	ENE
4-Jan-2016	15:00	2.9	WNW
4-Jan-2016	16:00	2.8	ESE
4-Jan-2016	17:00	2.7	NNW
4-Jan-2016	18:00	2.4	ENE
4-Jan-2016	19:00	2.1	NE
4-Jan-2016	20:00	1.8	WNW
4-Jan-2016	21:00	1.4	NE
4-Jan-2016	22:00	1.7	Ν
4-Jan-2016	23:00	1.9	W
5-Jan-2016	0:00	2	WSW
5-Jan-2016	1:00	2	S
5-Jan-2016	2:00	1.8	N
5-Jan-2016	3:00	1.7	Ν
5-Jan-2016	4:00	1.6	N
5-Jan-2016	5:00	1.8	NW
5-Jan-2016	6:00	1.6	E
5-Jan-2016	7:00	1.2	E
5-Jan-2016	8:00	1.5	N
5-Jan-2016	9:00	2.6	N
5-Jan-2016	10:00	2.7	N
5-Jan-2016	11:00	2.1	NW
5-Jan-2016	12:00	2.4	W
5-Jan-2016	13:00	2.8	NNE

5-Jan-2016 14:00 2.8 E 5-Jan-2016 15:00 2.8 E 5-Jan-2016 16:00 2.5 E 5-Jan-2016 17:00 2.3 ENE 5-Jan-2016 18:00 2.1 ENE 5-Jan-2016 19:00 1.4 WNW 5-Jan-2016 20:00 1.7 WNW 5-Jan-2016 22:00 1.9 W 5-Jan-2016 22:00 1.6 SW 6-Jan-2016 23:00 1.6 WNW 6-Jan-2016 0:00 1.6 WNW 6-Jan-2016 2:00 1.4 W 6-Jan-2016 3:00 1.3 WNW 6-Jan-2016 3:00 1.3 WNW 6-Jan-2016 5:00 1 W 6-Jan-2016 6:00 0.9 SW 6-Jan-2016 6:00 0.9 SW 6-Jan-2016 10:00 1.1 WNW 6-Jan-2016 10:				
5-Jan-2016 16:00 2.5 E 5-Jan-2016 17:00 2.3 ENE 5-Jan-2016 18:00 2.1 ENE 5-Jan-2016 19:00 1.4 WNW 5-Jan-2016 20:00 1.7 WNW 5-Jan-2016 22:00 1.9 W 5-Jan-2016 23:00 1.6 SW 6-Jan-2016 0:00 1.6 WNW 6-Jan-2016 2:00 1.4 W 6-Jan-2016 0:00 1.6 SW 6-Jan-2016 1:00 1.7 WNW 6-Jan-2016 2:00 1.4 W 6-Jan-2016 3:00 1.3 WNW 6-Jan-2016 3:00 1.3 WNW 6-Jan-2016 5:00 1 W 6-Jan-2016 6:00 0.9 SW 6-Jan-2016 7:00 0.8 SW 6-Jan-2016 10:00 1.1 WNW 6-Jan-2016 10:00	5-Jan-2016	14:00	2.8	E
5-Jan-2016 17:00 2.3 ENE 5-Jan-2016 18:00 2.1 ENE 5-Jan-2016 19:00 1.4 WNW 5-Jan-2016 20:00 1.7 WNW 5-Jan-2016 21:00 1.7 WNW 5-Jan-2016 21:00 1.7 WNW 5-Jan-2016 22:00 1.9 W 5-Jan-2016 23:00 1.6 SW 6-Jan-2016 0:00 1.7 WNW 6-Jan-2016 1:00 1.7 WNW 6-Jan-2016 1:00 1.7 WNW 6-Jan-2016 1:00 1.4 W 6-Jan-2016 2:00 1.4 W 6-Jan-2016 3:00 1.3 WNW 6-Jan-2016 5:00 1 W 6-Jan-2016 5:00 1 W 6-Jan-2016 7:00 0.8 SW 6-Jan-2016 10:00 1.4 WNW 6-Jan-2016 10:0	5-Jan-2016	15:00	2.8	E
5-Jan-2016 18:00 2.1 ENE 5-Jan-2016 19:00 1.4 WNW 5-Jan-2016 20:00 1.7 WNW 5-Jan-2016 21:00 1.7 WNW 5-Jan-2016 22:00 1.9 W 5-Jan-2016 23:00 1.6 SW 6-Jan-2016 0:00 1.6 WNW 6-Jan-2016 1:00 1.7 WNW 6-Jan-2016 2:00 1.4 W 6-Jan-2016 1:00 1.7 WNW 6-Jan-2016 2:00 1.4 W 6-Jan-2016 3:00 1.3 WNW 6-Jan-2016 3:00 1.1 WNW 6-Jan-2016 5:00 1 W 6-Jan-2016 5:00 1 W 6-Jan-2016 6:00 0.9 SW 6-Jan-2016 10:00 1.4 WNW 6-Jan-2016 10:00 1.4 WNW 6-Jan-2016 12:00	5-Jan-2016	16:00	2.5	E
5-Jan-2016 19:00 1.4 WNW 5-Jan-2016 20:00 1.7 WNW 5-Jan-2016 21:00 1.7 WNW 5-Jan-2016 22:00 1.9 W 5-Jan-2016 23:00 1.6 SW 6-Jan-2016 0:00 1.6 WNW 6-Jan-2016 0:00 1.7 WNW 6-Jan-2016 1:00 1.7 WNW 6-Jan-2016 2:00 1.4 W 6-Jan-2016 3:00 1.3 WNW 6-Jan-2016 3:00 1.1 WNW 6-Jan-2016 5:00 1 W 6-Jan-2016 5:00 1 W 6-Jan-2016 7:00 0.8 SW 6-Jan-2016 9:00 1.1 WNW 6-Jan-2016 10:00 1.4 WNW 6-Jan-2016 11:00 1.8 SW 6-Jan-2016 11:00 1.8 SW 6-Jan-2016 13:00	5-Jan-2016	17:00	2.3	ENE
5-Jan-2016 20:00 1.7 WNW 5-Jan-2016 21:00 1.7 WNW 5-Jan-2016 22:00 1.9 W 5-Jan-2016 23:00 1.6 SW 6-Jan-2016 0:00 1.6 WNW 6-Jan-2016 0:00 1.6 WNW 6-Jan-2016 1:00 1.7 WNW 6-Jan-2016 2:00 1.4 W 6-Jan-2016 3:00 1.3 WNW 6-Jan-2016 3:00 1.1 WNW 6-Jan-2016 5:00 1 W 6-Jan-2016 5:00 1 W 6-Jan-2016 6:00 0.9 SW 6-Jan-2016 7:00 0.8 SW 6-Jan-2016 10:00 1.4 WNW 6-Jan-2016 10:00 1.4 WNW 6-Jan-2016 11:00 1.8 SW 6-Jan-2016 11:00 1.8 SW 6-Jan-2016 15:00<	5-Jan-2016	18:00	2.1	ENE
5-Jan-2016 21:00 1.7 WNW 5-Jan-2016 22:00 1.9 W 5-Jan-2016 23:00 1.6 SW 6-Jan-2016 0:00 1.6 WNW 6-Jan-2016 1:00 1.7 WNW 6-Jan-2016 1:00 1.7 WNW 6-Jan-2016 2:00 1.4 W 6-Jan-2016 3:00 1.3 WNW 6-Jan-2016 3:00 1.1 WNW 6-Jan-2016 5:00 1 W 6-Jan-2016 5:00 1 W 6-Jan-2016 6:00 0.9 SW 6-Jan-2016 7:00 0.8 SW 6-Jan-2016 9:00 1.1 WNW 6-Jan-2016 10:00 1.4 WNW 6-Jan-2016 10:00 1.4 WNW 6-Jan-2016 11:00 1.8 SW 6-Jan-2016 11:00 1.8 SW 6-Jan-2016 15:00 </td <td>5-Jan-2016</td> <td>19:00</td> <td>1.4</td> <td>WNW</td>	5-Jan-2016	19:00	1.4	WNW
5-Jan-2016 22:00 1.9 W 5-Jan-2016 23:00 1.6 SW 6-Jan-2016 0:00 1.6 WNW 6-Jan-2016 1:00 1.7 WNW 6-Jan-2016 2:00 1.4 W 6-Jan-2016 3:00 1.3 WNW 6-Jan-2016 3:00 1.1 WNW 6-Jan-2016 5:00 1 W 6-Jan-2016 6:00 0.9 SW 6-Jan-2016 6:00 0.9 SW 6-Jan-2016 8:00 0.9 WNW 6-Jan-2016 9:00 1.1 WNW 6-Jan-2016 10:00 1.4 WNW 6-Jan-2016 10:00 1.4 WNW 6-Jan-2016 11:00 1.8 SW 6-Jan-2016 11:00 1.8 SW 6-Jan-2016 13:00 2.2 W 6-Jan-2016 15:00 1.5 W 6-Jan-2016 15:00<	5-Jan-2016	20:00	1.7	WNW
5-Jan-2016 23:00 1.6 SW 6-Jan-2016 0:00 1.6 WNW 6-Jan-2016 1:00 1.7 WNW 6-Jan-2016 2:00 1.4 W 6-Jan-2016 3:00 1.3 WNW 6-Jan-2016 4:00 1.1 WNW 6-Jan-2016 5:00 1 W 6-Jan-2016 5:00 1 W 6-Jan-2016 6:00 0.9 SW 6-Jan-2016 7:00 0.8 SW 6-Jan-2016 8:00 0.9 WNW 6-Jan-2016 9:00 1.1 WNW 6-Jan-2016 10:00 1.4 WNW 6-Jan-2016 11:00 1.8 SW 6-Jan-2016 11:00 1.8 SW 6-Jan-2016 13:00 2.2 W 6-Jan-2016 15:00 1.5 W 6-Jan-2016 16:00 1.6 W 6-Jan-2016 16:00	5-Jan-2016	21:00	1.7	WNW
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8-Jan-2016	23:00	1.1	ESE
9-Jan-2016	0:00	1.1	ENE
9-Jan-2016	1:00	1.2	ESE
9-Jan-2016	2:00	1	ENE
9-Jan-2016	3:00	1.2	NE
9-Jan-2016	4:00	1	ENE
9-Jan-2016	5:00	0.9	NE
9-Jan-2016	6:00	0.8	NNE
9-Jan-2016	7:00	0.9	NE
9-Jan-2016	8:00	1.1	ENE
9-Jan-2016	9:00	1.5	NNE
9-Jan-2016	10:00	2	ENE
9-Jan-2016	11:00	1.9	Е
9-Jan-2016	12:00	2.3	ENE
9-Jan-2016	13:00	2.3	NE
9-Jan-2016	14:00	1.7	SSE
9-Jan-2016	15:00	1.9	SSE
9-Jan-2016	16:00	1.8	NNE
9-Jan-2016	17:00	1.7	ENE
9-Jan-2016	18:00	1.3	ENE
9-Jan-2016	19:00	1	ENE
9-Jan-2016	20:00	0.7	ENE
9-Jan-2016	21:00	0.9	SE
9-Jan-2016	22:00	0.8	ENE
9-Jan-2016	23:00	0.7	ENE
10-Jan-2016	0:00	0.7	ESE
10-Jan-2016	1:00	0.9	ESE
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13-Jan-2016	12:00	2.7	NNE
13-Jan-2016	13:00	2.3	ENE
13-Jan-2016	14:00	2.7	ENE
13-Jan-2016	15:00	2.5	ENE
13-Jan-2016	16:00	2.5	ENE
13-Jan-2016	17:00	2	ENE
13-Jan-2016	18:00	1.8	ESE
13-Jan-2016	19:00	1.6	ESE
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14-Jan-2016	5:00	0.8	SSW
14-Jan-2016	6:00	0.8	SE
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14-Jan-2016	9:00	1.8	SE
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14-Jan-2016	11:00	2.2	ESE
14-Jan-2016	12:00	2.7	SE
14-Jan-2016	13:00	2.6	ESE
14-Jan-2016	14:00	2.5	ESE
14-Jan-2016	15:00	2.4	ESE
14-Jan-2016	16:00	2.2	ESE
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15-Jan-20166:001.3WSW15-Jan-20167:001.4SSW15-Jan-20168:001.6W15-Jan-20169:002SSW15-Jan-201610:002NE15-Jan-201611:001.8NE15-Jan-201612:002.1NE15-Jan-201613:002.3SSE15-Jan-201614:002.3S15-Jan-201615:001.9S15-Jan-201616:001.6SSE15-Jan-201617:001.4SE15-Jan-201619:001.1SE15-Jan-201619:001.1SE15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.4SE	15-Jan-2016	4:00	1.5	WSW
15-Jan-20167:001.4SSW15-Jan-20168:001.6W15-Jan-20169:002SSW15-Jan-201610:002NE15-Jan-201611:001.8NE15-Jan-201612:002.1NE15-Jan-201613:002.3SSE15-Jan-201614:002.3S15-Jan-201615:001.9S15-Jan-201616:001.6SSE15-Jan-201617:001.4SE15-Jan-201619:001.1SE15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.4SE	15-Jan-2016	5:00	1.4	W
15-Jan-20168:001.6W15-Jan-20169:002SSW15-Jan-201610:002NE15-Jan-201611:001.8NE15-Jan-201612:002.1NE15-Jan-201613:002.3SSE15-Jan-201614:002.3S15-Jan-201616:001.6SSE15-Jan-201616:001.6SSE15-Jan-201617:001.4SE15-Jan-201619:001.1SE15-Jan-201619:001.1SE15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.4SE	15-Jan-2016	6:00	1.3	WSW
15-Jan-20169:002SSW15-Jan-201610:002NE15-Jan-201611:001.8NE15-Jan-201612:002.1NE15-Jan-201613:002.3SSE15-Jan-201614:002.3S15-Jan-201615:001.9S15-Jan-201616:001.6SSE15-Jan-201617:001.4SE15-Jan-201619:001.1SE15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.4SE	15-Jan-2016	7:00	1.4	SSW
15-Jan-201610:002NE15-Jan-201611:001.8NE15-Jan-201612:002.1NE15-Jan-201613:002.3SSE15-Jan-201614:002.3S15-Jan-201615:001.9S15-Jan-201616:001.6SSE15-Jan-201617:001.4SE15-Jan-201619:001.1SE15-Jan-201620:001.1SE15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201621:001.4SE	15-Jan-2016	8:00	1.6	W
15-Jan-201611:001.8NE15-Jan-201612:002.1NE15-Jan-201613:002.3SSE15-Jan-201614:002.3S15-Jan-201615:001.9S15-Jan-201616:001.6SSE15-Jan-201617:001.4SE15-Jan-201619:001.1SE15-Jan-201619:001.1SE15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.4SE	15-Jan-2016	9:00	2	SSW
15-Jan-201612:002.1NE15-Jan-201613:002.3SSE15-Jan-201614:002.3S15-Jan-201615:001.9S15-Jan-201616:001.6SSE15-Jan-201617:001.4SE15-Jan-201618:001.5SE15-Jan-201619:001.1SE15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.4SE	15-Jan-2016	10:00	2	NE
15-Jan-201613:002.3SSE15-Jan-201614:002.3S15-Jan-201615:001.9S15-Jan-201616:001.6SSE15-Jan-201617:001.4SE15-Jan-201618:001.5SE15-Jan-201619:001.1SE15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.1SE15-Jan-201623:001.4SE	15-Jan-2016	11:00	1.8	NE
15-Jan-201614:002.3S15-Jan-201615:001.9S15-Jan-201616:001.6SSE15-Jan-201617:001.4SE15-Jan-201618:001.5SE15-Jan-201619:001.1SE15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.4SE	15-Jan-2016	12:00	2.1	NE
15-Jan-201615:001.9S15-Jan-201616:001.6SSE15-Jan-201617:001.4SE15-Jan-201618:001.5SE15-Jan-201619:001.1SE15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.4SE	15-Jan-2016	13:00	2.3	SSE
15-Jan-201616:001.6SSE15-Jan-201617:001.4SE15-Jan-201618:001.5SE15-Jan-201619:001.1SE15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.4SE	15-Jan-2016	14:00	2.3	S
15-Jan-201617:001.4SE15-Jan-201618:001.5SE15-Jan-201619:001.1SE15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.4SE	15-Jan-2016	15:00	1.9	S
15-Jan-201618:001.5SE15-Jan-201619:001.1SE15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201622:001.4SE	15-Jan-2016	16:00	1.6	SSE
15-Jan-201619:001.1SE15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201623:001.4SE	15-Jan-2016	17:00	1.4	SE
15-Jan-201620:001.1SE15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201623:001.4SE	15-Jan-2016	18:00	1.5	SE
15-Jan-201621:001.1SE15-Jan-201622:001.1SE15-Jan-201623:001.4SE	15-Jan-2016	19:00	1.1	SE
15-Jan-201622:001.1SE15-Jan-201623:001.4SE	15-Jan-2016	20:00	1.1	SE
15-Jan-2016 23:00 1.4 SE	15-Jan-2016	21:00	1.1	SE
	15-Jan-2016	22:00	1.1	SE
16-Jan-2016 0:00 1.4 SE	15-Jan-2016	23:00	1.4	SE
	16-Jan-2016	0:00	1.4	SE
16-Jan-2016 1:00 1.4 SE	16-Jan-2016	1:00	1.4	SE
16-Jan-2016 2:00 1.3 SE	16-Jan-2016	2:00	1.3	SE
16-Jan-2016 3:00 1.3 SE	16-Jan-2016	3:00	1.3	SE
16-Jan-2016 4:00 1.4 NE	16-Jan-2016	4:00	1.4	NE
16-Jan-2016 5:00 1.5 NE	16-Jan-2016	5:00	1.5	NE
16-Jan-2016 6:00 1.1 NNE	16-Jan-2016	6:00	1.1	NNE
16-Jan-2016 7:00 1.4 NNE	16-Jan-2016	7:00	1.4	NNE
	16-Jan-2016	8:00	1.4	ESE

16-Jan-2016 9:00 1.8 SE 16-Jan-2016 10:00 2 ESE 16-Jan-2016 11:00 1.8 SE 16-Jan-2016 12:00 2.2 S 16-Jan-2016 13:00 2.3 S 16-Jan-2016 14:00 2.1 SSW 16-Jan-2016 15:00 2.3 S 16-Jan-2016 16:00 2 S 16-Jan-2016 16:00 2 S 16-Jan-2016 17:00 1.7 SSE 16-Jan-2016 19:00 1.7 SSE 16-Jan-2016 19:00 1.7 SSE 16-Jan-2016 20:00 1 SSE 16-Jan-2016 20:00 1.2 SE 16-Jan-2016 20:00 1.2 SE 16-Jan-2016 20:00 1.2 N 17-Jan-2016 0:00 1.2 N 17-Jan-2016 0:00 1.5 SSW 17-Jan-2016				
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16-Jan-2016 12:00 2.2 S 16-Jan-2016 13:00 2.3 S 16-Jan-2016 14:00 2.1 SSW 16-Jan-2016 15:00 2.3 S 16-Jan-2016 15:00 2.3 S 16-Jan-2016 16:00 2 S 16-Jan-2016 17:00 1.7 SSE 16-Jan-2016 19:00 1.7 SSE 16-Jan-2016 20:00 1 SSE 16-Jan-2016 20:00 1 SSE 16-Jan-2016 21:00 1.3 SE 16-Jan-2016 21:00 1.2 SE 16-Jan-2016 21:00 1.2 SE 16-Jan-2016 20:00 1.2 SE 17-Jan-2016 0:00 1.2 N 17-Jan-2016 0:00 1.5 SSW 17-Jan-2016 3:00 1.5 SSE 17-Jan-2016 5:00 1.4 SSW 17-Jan-2016 <td>16-Jan-2016</td> <td>10:00</td> <td>2</td> <td>ESE</td>	16-Jan-2016	10:00	2	ESE
16-Jan-2016 13:00 2.3 S 16-Jan-2016 14:00 2.1 SSW 16-Jan-2016 15:00 2.3 S 16-Jan-2016 16:00 2 S 16-Jan-2016 16:00 2 S 16-Jan-2016 17:00 1.7 SSE 16-Jan-2016 19:00 1.7 SSE 16-Jan-2016 20:00 1 SSE 16-Jan-2016 21:00 1.3 SE 16-Jan-2016 21:00 1.3 SE 16-Jan-2016 21:00 1.2 SE 16-Jan-2016 23:00 1.2 SE 16-Jan-2016 23:00 1.2 N 17-Jan-2016 0:00 1.2 N 17-Jan-2016 1:00 1.3 SSW 17-Jan-2016 3:00 1.5 SSE 17-Jan-2016 4:00 1.2 S 17-Jan-2016 5:00 1.4 SSW 17-Jan-2016	16-Jan-2016	11:00	1.8	SE
16-Jan-2016 14:00 2.1 SSW 16-Jan-2016 15:00 2.3 S 16-Jan-2016 16:00 2 S 16-Jan-2016 17:00 1.7 SSE 16-Jan-2016 18:00 1.5 SSE 16-Jan-2016 19:00 1.7 SSE 16-Jan-2016 19:00 1.7 SSE 16-Jan-2016 20:00 1 SSE 16-Jan-2016 21:00 1.3 SE 16-Jan-2016 21:00 1.2 SE 16-Jan-2016 22:00 1.2 SE 16-Jan-2016 23:00 1.2 SE 16-Jan-2016 0:00 1.2 N 17-Jan-2016 0:00 1.2 N 17-Jan-2016 0:00 1.5 SSW 17-Jan-2016 3:00 1.5 SSE 17-Jan-2016 5:00 1.4 SSW 17-Jan-2016 6:00 1.2 SE 17-Jan-2016<	16-Jan-2016	12:00	2.2	S
16-Jan-2016 15:00 2.3 S 16-Jan-2016 16:00 2 S 16-Jan-2016 17:00 1.7 SSE 16-Jan-2016 18:00 1.5 SSE 16-Jan-2016 19:00 1.7 SSE 16-Jan-2016 19:00 1.7 SSE 16-Jan-2016 20:00 1 SSE 16-Jan-2016 20:00 1.3 SE 16-Jan-2016 21:00 1.3 SE 16-Jan-2016 22:00 1.2 SE 16-Jan-2016 23:00 1.2 SE 17-Jan-2016 0:00 1.2 N 17-Jan-2016 0:00 1.3 SSW 17-Jan-2016 1:00 1.3 SSW 17-Jan-2016 3:00 1.5 SSE 17-Jan-2016 3:00 1.4 SSW 17-Jan-2016 5:00 1.4 SSE 17-Jan-2016 7:00 1.4 SSE 17-Jan-201	16-Jan-2016	13:00	2.3	S
16-Jan-2016 16:00 2 S 16-Jan-2016 17:00 1.7 SSE 16-Jan-2016 18:00 1.5 SSE 16-Jan-2016 19:00 1.7 SSE 16-Jan-2016 19:00 1.7 SSE 16-Jan-2016 20:00 1 SSE 16-Jan-2016 21:00 1.3 SE 16-Jan-2016 22:00 1.2 SE 16-Jan-2016 23:00 1.2 SE 16-Jan-2016 23:00 1.2 N 17-Jan-2016 0:00 1.2 N 17-Jan-2016 1:00 1.3 SSW 17-Jan-2016 3:00 1.5 SSE 17-Jan-2016 3:00 1.5 SSE 17-Jan-2016 5:00 1.4 SSW 17-Jan-2016 6:00 1.7 SSE 17-Jan-2016 7:00 1.4 SSE 17-Jan-2016 8:00 1.7 SSE 17-Jan-201	16-Jan-2016	14:00	2.1	SSW
16-Jan-2016 17:00 1.7 SSE 16-Jan-2016 18:00 1.5 SSE 16-Jan-2016 19:00 1.7 SSE 16-Jan-2016 20:00 1 SSE 16-Jan-2016 20:00 1 SSE 16-Jan-2016 21:00 1.3 SE 16-Jan-2016 22:00 1.2 SE 16-Jan-2016 23:00 1.2 SE 16-Jan-2016 23:00 1.2 SE 17-Jan-2016 0:00 1.2 N 17-Jan-2016 1:00 1.3 SSW 17-Jan-2016 1:00 1.3 SSW 17-Jan-2016 3:00 1.5 SSE 17-Jan-2016 3:00 1.4 SSW 17-Jan-2016 5:00 1.4 SSE 17-Jan-2016 7:00 1.4 SSE 17-Jan-2016 7:00 1.4 SSE 17-Jan-2016 9:00 2 S 17-Jan-2016<	16-Jan-2016	15:00	2.3	S
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16-Jan-201619:001.7SSE16-Jan-201620:001SSE16-Jan-201621:001.3SE16-Jan-201622:001.2SE16-Jan-201623:001.2SE17-Jan-20160:001.2N17-Jan-20161:001.3SSW17-Jan-20161:001.3SSW17-Jan-20161:001.5SSW17-Jan-20162:001.5SSW17-Jan-20163:001.5SSE17-Jan-20165:001.4SSW17-Jan-20166:001.2SE17-Jan-20165:001.4SSE17-Jan-20167:001.4SSE17-Jan-20169:002S17-Jan-201610:002.3S17-Jan-201611:002.6SE17-Jan-201611:002.9SE	16-Jan-2016	17:00	1.7	SSE
16-Jan-201620:001SSE16-Jan-201621:001.3SE16-Jan-201622:001.2SE16-Jan-201623:001.2SE17-Jan-20160:001.2N17-Jan-20161:001.3SSW17-Jan-20162:001.5SSW17-Jan-20162:001.5SSW17-Jan-20163:001.5SSE17-Jan-20165:001.4SSW17-Jan-20165:001.4SSE17-Jan-20167:001.4SSE17-Jan-20168:001.7SSE17-Jan-20168:001.7SSE17-Jan-201610:002.3S17-Jan-201611:002.6SE17-Jan-201611:002.9SE	16-Jan-2016	18:00	1.5	SSE
16-Jan-201621:001.3SE16-Jan-201622:001.2SE16-Jan-201623:001.2SE17-Jan-20160:001.2N17-Jan-20161:001.3SSW17-Jan-20162:001.5SSW17-Jan-20163:001.5SSE17-Jan-20163:001.2S17-Jan-20166:001.2S17-Jan-20165:001.4SSW17-Jan-20166:001.2SE17-Jan-20166:001.2SE17-Jan-20166:001.4SSE17-Jan-20167:001.4SSE17-Jan-20169:002S17-Jan-201610:002.3S17-Jan-201610:002.3S17-Jan-201611:002.6SE17-Jan-201611:002.9SE	16-Jan-2016	19:00	1.7	SSE
16-Jan-201622:001.2SE16-Jan-201623:001.2SE17-Jan-20160:001.2N17-Jan-20161:001.3SSW17-Jan-20162:001.5SSE17-Jan-20163:001.5SSE17-Jan-20163:001.2S17-Jan-20165:001.4SSW17-Jan-20165:001.4SSE17-Jan-20167:001.4SSE17-Jan-20167:001.4SSE17-Jan-20167:002S17-Jan-201610:002.3S17-Jan-201611:002.6SE17-Jan-201611:002.9SE	16-Jan-2016	20:00	1	SSE
16-Jan-201623:001.2SE17-Jan-20160:001.2N17-Jan-20161:001.3SSW17-Jan-20162:001.5SSW17-Jan-20163:001.5SSE17-Jan-20164:001.2S17-Jan-20165:001.4SSW17-Jan-20166:001.2SE17-Jan-20167:001.4SSE17-Jan-20167:001.4SSE17-Jan-20168:001.7SSE17-Jan-20169:002S17-Jan-201610:002.3S17-Jan-201611:002.6SE17-Jan-201611:002.9SE	16-Jan-2016	21:00	1.3	SE
17-Jan-20160:001.2N17-Jan-20161:001.3SSW17-Jan-20162:001.5SSW17-Jan-20163:001.5SSE17-Jan-20164:001.2S17-Jan-20165:001.4SSW17-Jan-20166:001.2SE17-Jan-20166:001.2SE17-Jan-20166:001.2SE17-Jan-20167:001.4SSE17-Jan-20168:001.7SSE17-Jan-20169:002S17-Jan-201610:002.3S17-Jan-201611:002.6SE17-Jan-201611:002.9SE	16-Jan-2016	22:00	1.2	SE
17-Jan-20161:001.3SSW17-Jan-20162:001.5SSW17-Jan-20163:001.5SSE17-Jan-20164:001.2S17-Jan-20165:001.4SSW17-Jan-20166:001.2SE17-Jan-20167:001.4SSE17-Jan-20167:001.4SSE17-Jan-20167:002S17-Jan-20168:001.7SSE17-Jan-20169:002S17-Jan-201610:002.3S17-Jan-201611:002.6SE17-Jan-201611:002.9SE	16-Jan-2016	23:00	1.2	SE
17-Jan-20162:001.5SSW17-Jan-20163:001.5SSE17-Jan-20164:001.2S17-Jan-20165:001.4SSW17-Jan-20166:001.2SE17-Jan-20167:001.4SSE17-Jan-20168:001.7SSE17-Jan-20169:002S17-Jan-201610:002.3S17-Jan-201611:002.6SE17-Jan-201611:002.9SE	17-Jan-2016	0:00	1.2	N
17-Jan-20163:001.5SSE17-Jan-20164:001.2S17-Jan-20165:001.4SSW17-Jan-20166:001.2SE17-Jan-20167:001.4SSE17-Jan-20168:001.7SSE17-Jan-20169:002S17-Jan-201610:002.3S17-Jan-201611:002.6SE17-Jan-201611:002.9SE	17-Jan-2016	1:00	1.3	SSW
17-Jan-2016 4:00 1.2 S 17-Jan-2016 5:00 1.4 SSW 17-Jan-2016 6:00 1.2 SE 17-Jan-2016 7:00 1.4 SSE 17-Jan-2016 7:00 1.4 SSE 17-Jan-2016 8:00 1.7 SSE 17-Jan-2016 9:00 2 S 17-Jan-2016 10:00 2.3 S 17-Jan-2016 11:00 2.6 SE 17-Jan-2016 11:00 2.9 SE	17-Jan-2016	2:00	1.5	SSW
17-Jan-2016 5:00 1.4 SSW 17-Jan-2016 6:00 1.2 SE 17-Jan-2016 7:00 1.4 SSE 17-Jan-2016 8:00 1.7 SSE 17-Jan-2016 9:00 2 S 17-Jan-2016 10:00 2.3 S 17-Jan-2016 11:00 2.6 SE 17-Jan-2016 11:00 2.9 SE	17-Jan-2016	3:00	1.5	SSE
17-Jan-2016 6:00 1.2 SE 17-Jan-2016 7:00 1.4 SSE 17-Jan-2016 8:00 1.7 SSE 17-Jan-2016 9:00 2 S 17-Jan-2016 10:00 2.3 S 17-Jan-2016 11:00 2.6 SE 17-Jan-2016 12:00 2.9 SE	17-Jan-2016	4:00	1.2	S
17-Jan-2016 7:00 1.4 SSE 17-Jan-2016 8:00 1.7 SSE 17-Jan-2016 9:00 2 S 17-Jan-2016 10:00 2.3 S 17-Jan-2016 11:00 2.6 SE 17-Jan-2016 12:00 2.9 SE	17-Jan-2016	5:00	1.4	SSW
17-Jan-2016 8:00 1.7 SSE 17-Jan-2016 9:00 2 S 17-Jan-2016 10:00 2.3 S 17-Jan-2016 11:00 2.6 SE 17-Jan-2016 12:00 2.9 SE	17-Jan-2016	6:00	1.2	SE
17-Jan-20169:002S17-Jan-201610:002.3S17-Jan-201611:002.6SE17-Jan-201612:002.9SE	17-Jan-2016	7:00	1.4	SSE
17-Jan-201610:002.3S17-Jan-201611:002.6SE17-Jan-201612:002.9SE	17-Jan-2016	8:00	1.7	SSE
17-Jan-201611:002.6SE17-Jan-201612:002.9SE	17-Jan-2016	9:00	2	S
17-Jan-2016 12:00 2.9 SE	17-Jan-2016	10:00	2.3	S
	17-Jan-2016	11:00	2.6	SE
17-Jan-2016 13:00 3.2 SE	17-Jan-2016	12:00	2.9	SE
	17-Jan-2016	13:00	3.2	SE
17-Jan-2016 14:00 2.8 SE	17-Jan-2016	14:00	2.8	SE
17-Jan-2016 15:00 2.7 SE	17-Jan-2016	15:00	2.7	SE
17-Jan-2016 16:00 2.8 SE	17-Jan-2016	16:00	2.8	SE
17-Jan-2016 17:00 2.4 SE	17-Jan-2016	17:00	2.4	SE
17-Jan-2016 18:00 2.2 SSE	17-Jan-2016	18:00	2.2	SSE
17-Jan-2016 19:00 2.1 SE	17-Jan-2016	19:00	2.1	SE
17-Jan-2016 20:00 1.8 SE	17-Jan-2016	20:00	1.8	SE
	17-Jan-2016	21:00	1.6	SE

17-Jan-2016	22:00	1.7	SE
17-Jan-2016	23:00	1.5	SE
18-Jan-2016	0:00	1.4	SE
18-Jan-2016	1:00	1.6	SE
18-Jan-2016	2:00	1.3	SE
18-Jan-2016	3:00	1.4	SE
18-Jan-2016	4:00	1.7	S
18-Jan-2016	5:00	1.6	S
18-Jan-2016	6:00	1.6	SSW
18-Jan-2016	7:00	1.5	SSW
18-Jan-2016	8:00	1.6	SSW
18-Jan-2016	9:00	1.9	SSE
18-Jan-2016	10:00	2.5	SSE
18-Jan-2016	11:00	2.8	SSE
18-Jan-2016	12:00	2.4	SE
18-Jan-2016	13:00	2.4	SE
18-Jan-2016	14:00	2.5	NE
18-Jan-2016	15:00	2.6	E
18-Jan-2016	16:00	2.3	SSE
18-Jan-2016	17:00	2	SSE
18-Jan-2016	18:00	1.6	SE
18-Jan-2016	19:00	1.8	NE
18-Jan-2016	20:00	1.3	NE
18-Jan-2016	21:00	1.3	NE
18-Jan-2016	22:00	1.1	ENE
18-Jan-2016	23:00	1.4	NNE
19-Jan-2016	0:00	1.5	ENE
19-Jan-2016	1:00	1.6	ENE
19-Jan-2016	2:00	1.4	SE
19-Jan-2016	3:00	1.1	E
19-Jan-2016	4:00	1.1	W
19-Jan-2016	5:00	1.1	ESE
19-Jan-2016	6:00	0.8	W
19-Jan-2016	7:00	1	SE
19-Jan-2016	8:00	1.4	ENE
19-Jan-2016	9:00	1.5	ESE
19-Jan-2016	10:00	1.9	E
	1	1	1

19-Jan-2016	11:00	2.3	E
19-Jan-2016	12:00	2.3	NE
19-Jan-2016	13:00	2.2	NE
19-Jan-2016	14:00	2.2	NE
19-Jan-2016	15:00	2.6	ESE
19-Jan-2016	16:00	2.3	N
19-Jan-2016	17:00	2.1	NE
19-Jan-2016	18:00	1.7	NE
19-Jan-2016	19:00	1.3	NE
19-Jan-2016	20:00	0.9	E
19-Jan-2016	21:00	0.4	ENE
19-Jan-2016	22:00	1	E
19-Jan-2016	23:00	0.8	E
20-Jan-2016	0:00	0.7	SE
20-Jan-2016	1:00	0.7	NE
20-Jan-2016	2:00	0.8	SE
20-Jan-2016	3:00	0.8	E
20-Jan-2016	4:00	0.7	ESE
20-Jan-2016	5:00	0.8	ESE
20-Jan-2016	6:00	0.8	N
20-Jan-2016	7:00	0.7	NNE
20-Jan-2016	8:00	0.9	ESE
20-Jan-2016	9:00	1.6	NE
20-Jan-2016	10:00	1.7	NE
20-Jan-2016	11:00	1.7	NE
20-Jan-2016	12:00	1.9	ENE
20-Jan-2016	13:00	2	E
20-Jan-2016	14:00	1.7	NE
20-Jan-2016	15:00	1.7	NE
20-Jan-2016	16:00	2.2	ESE
20-Jan-2016	17:00	1.8	NE
20-Jan-2016	18:00	1.2	ENE
20-Jan-2016	19:00	1.1	E
20-Jan-2016	20:00	1.1	E
20-Jan-2016	21:00	1.6	NE
20-Jan-2016	22:00	1.2	ENE
20-Jan-2016	23:00	1.6	NE
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21-Jan-2016 0:00 1.1 NE 21-Jan-2016 1:00 1 ENE 21-Jan-2016 2:00 1 E 21-Jan-2016 3:00 1.1 NE 21-Jan-2016 4:00 1 NE 21-Jan-2016 5:00 1.2 NE 21-Jan-2016 6:00 1 NE 21-Jan-2016 7:00 1 NE 21-Jan-2016 7:00 1 NE 21-Jan-2016 9:00 1.4 E 21-Jan-2016 10:00 1.6 E 21-Jan-2016 11:00 1.7 E 21-Jan-2016 13:00 2 E 21-Jan-2016 14:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 17:00 1.6 E 21-Jan-2016 17:00 1.6 E 21-Jan-2016 12:00	r			
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21-Jan-2016 3:00 1.1 NE 21-Jan-2016 4:00 1 NE 21-Jan-2016 5:00 1.2 NE 21-Jan-2016 6:00 1 NE 21-Jan-2016 7:00 1 NE 21-Jan-2016 7:00 1 NE 21-Jan-2016 9:00 1.4 E 21-Jan-2016 10:00 1.6 E 21-Jan-2016 11:00 1.7 E 21-Jan-2016 12:00 2 E 21-Jan-2016 12:00 2 E 21-Jan-2016 13:00 2 E 21-Jan-2016 14:00 1.7 E 21-Jan-2016 15:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 18:00 1.4 E 21-Jan-2016 19:00 1.2 SE 21-Jan-2016 20:00 0.9 E 21-Jan-2016 20:00	21-Jan-2016	1:00	1	ENE
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21-Jan-2016 5:00 1.2 NE 21-Jan-2016 6:00 1 NE 21-Jan-2016 7:00 1 NE 21-Jan-2016 8:00 1.1 NE 21-Jan-2016 9:00 1.4 E 21-Jan-2016 10:00 1.6 E 21-Jan-2016 11:00 1.7 E 21-Jan-2016 12:00 2 E 21-Jan-2016 13:00 2 E 21-Jan-2016 14:00 1.7 E 21-Jan-2016 14:00 1.7 E 21-Jan-2016 15:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 17:00 1.6 E 21-Jan-2016 18:00 1.4 E 21-Jan-2016 20:00 0.9 E 21-Jan-2016 20:00 1.5 E 22-Jan-2016 0:00<	21-Jan-2016	3:00	1.1	NE
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21-Jan-2016 7:00 1 NE 21-Jan-2016 8:00 1.1 NE 21-Jan-2016 9:00 1.4 E 21-Jan-2016 10:00 1.6 E 21-Jan-2016 11:00 1.7 E 21-Jan-2016 12:00 2 E 21-Jan-2016 13:00 2 E 21-Jan-2016 14:00 1.7 E 21-Jan-2016 14:00 1.7 E 21-Jan-2016 15:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 17:00 1.6 E 21-Jan-2016 19:00 1.2 SE 21-Jan-2016 20:00 0.9 E 21-Jan-2016 20:00 1 E 21-Jan-2016 20:00 1.5 E 22-Jan-2016 0:00	21-Jan-2016	5:00	1.2	NE
21-Jan-2016 8:00 1.1 NE 21-Jan-2016 9:00 1.4 E 21-Jan-2016 10:00 1.6 E 21-Jan-2016 11:00 1.7 E 21-Jan-2016 12:00 2 E 21-Jan-2016 13:00 2 E 21-Jan-2016 14:00 1.7 E 21-Jan-2016 14:00 1.7 E 21-Jan-2016 15:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 17:00 1.6 E 21-Jan-2016 19:00 1.2 SE 21-Jan-2016 20:00 0.9 E 21-Jan-2016 21:00 1 E 21-Jan-2016 21:00 1.5 E 22-Jan-2016 1:00 1.5 E 22-Jan-2016 1:0	21-Jan-2016	6:00	1	NE
21-Jan-2016 9:00 1.4 E 21-Jan-2016 10:00 1.6 E 21-Jan-2016 11:00 1.7 E 21-Jan-2016 12:00 2 E 21-Jan-2016 13:00 2 E 21-Jan-2016 13:00 2 E 21-Jan-2016 14:00 1.7 E 21-Jan-2016 15:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 17:00 1.6 E 21-Jan-2016 19:00 1.2 SE 21-Jan-2016 20:00 0.9 E 21-Jan-2016 21:00 1 ESE 21-Jan-2016 21:00 1 E 21-Jan-2016 21:00 1.5 E 22-Jan-2016 0:00 1.8 E 22-Jan-2016 1:00 1.5 E 22-Jan-2016 3:00 </td <td>21-Jan-2016</td> <td>7:00</td> <td>1</td> <td>NE</td>	21-Jan-2016	7:00	1	NE
21-Jan-2016 10:00 1.6 E 21-Jan-2016 11:00 1.7 E 21-Jan-2016 12:00 2 E 21-Jan-2016 13:00 2 E 21-Jan-2016 14:00 1.7 E 21-Jan-2016 14:00 1.7 E 21-Jan-2016 15:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 17:00 1.6 E 21-Jan-2016 19:00 1.2 SE 21-Jan-2016 20:00 0.9 E 21-Jan-2016 21:00 1 ESE 21-Jan-2016 22:00 1 E 21-Jan-2016 23:00 1.5 E 22-Jan-2016 1:00 1.5 E 22-Jan-2016 1:00 1.5 E 22-Jan-2016 3:00 1.5 E 22-Jan-2016 5:00	21-Jan-2016	8:00	1.1	NE
21-Jan-2016 11:00 1.7 E 21-Jan-2016 12:00 2 E 21-Jan-2016 13:00 2 E 21-Jan-2016 14:00 1.7 E 21-Jan-2016 15:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 18:00 1.4 E 21-Jan-2016 19:00 1.2 SE 21-Jan-2016 20:00 0.9 E 21-Jan-2016 20:00 1 ESE 21-Jan-2016 21:00 1 ESE 21-Jan-2016 23:00 1.5 E 22-Jan-2016 0:00 1.8 E 22-Jan-2016 1:00 1.5 E 22-Jan-2016 3:00 1.5 E 22-Jan-2016 5:00 1.6 ENE 22-Jan-2016 5	21-Jan-2016	9:00	1.4	E
21-Jan-2016 12:00 2 E 21-Jan-2016 13:00 2 E 21-Jan-2016 14:00 1.7 E 21-Jan-2016 15:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 17:00 1.6 E 21-Jan-2016 18:00 1.4 E 21-Jan-2016 19:00 1.2 SE 21-Jan-2016 20:00 0.9 E 21-Jan-2016 21:00 1 ESE 21-Jan-2016 21:00 1 E 21-Jan-2016 21:00 1 E 21-Jan-2016 23:00 1.5 E 22-Jan-2016 0:00 1.8 E 22-Jan-2016 3:00 1.5 E 22-Jan-2016 3:00 1.5 E 22-Jan-2016 5:00 1.6 ENE 22-Jan-2016 7:00<	21-Jan-2016	10:00	1.6	E
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21-Jan-2016 15:00 1.7 E 21-Jan-2016 16:00 1.7 E 21-Jan-2016 17:00 1.6 E 21-Jan-2016 18:00 1.4 E 21-Jan-2016 19:00 1.2 SE 21-Jan-2016 20:00 0.9 E 21-Jan-2016 21:00 1 ESE 21-Jan-2016 22:00 1 E 21-Jan-2016 23:00 1.5 E 22-Jan-2016 0:00 1.8 E 22-Jan-2016 1:00 1.5 E 22-Jan-2016 1:00 1.5 E 22-Jan-2016 3:00 1.5 E 22-Jan-2016 3:00 1.5 E 22-Jan-2016 5:00 1.6 ENE 22-Jan-2016 5:00 1.6 E 22-Jan-2016 7:00 1.7 E 22-Jan-2016 7:00 1.6 E 22-Jan-2016 7:00	21-Jan-2016	13:00	2	E
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21-Jan-201617:001.6E21-Jan-201618:001.4E21-Jan-201619:001.2SE21-Jan-201620:000.9E21-Jan-201621:001ESE21-Jan-201622:001E21-Jan-201623:001.5E22-Jan-20160:001.8E22-Jan-20161:001.5E22-Jan-20162:001.5E22-Jan-20162:001.5E22-Jan-20163:001.5E22-Jan-20163:001.5E22-Jan-20165:001.6ENE22-Jan-20167:001.7E22-Jan-20168:001.6E22-Jan-20169:001.6E22-Jan-201610:001.9NE22-Jan-201611:002.1SE	21-Jan-2016	15:00	1.7	E
21-Jan-201618:001.4E21-Jan-201619:001.2SE21-Jan-201620:000.9E21-Jan-201621:001ESE21-Jan-201622:001E21-Jan-201623:001.5E22-Jan-20160:001.8E22-Jan-20161:001.5E22-Jan-20161:001.5E22-Jan-20162:001.5E22-Jan-20163:001.5E22-Jan-20163:001.5E22-Jan-20165:001.6ENE22-Jan-20165:001.7E22-Jan-20167:001.7E22-Jan-20167:001.7E22-Jan-20161:001.8E22-Jan-20163:001.6E22-Jan-20163:001.6E22-Jan-201610:001.9NE22-Jan-201611:002.1SE	21-Jan-2016	16:00	1.7	E
21-Jan-201619:001.2SE21-Jan-201620:000.9E21-Jan-201621:001ESE21-Jan-201622:001E21-Jan-201623:001.5E22-Jan-20160:001.8E22-Jan-20161:001.5E22-Jan-20161:001.5E22-Jan-20163:001.5E22-Jan-20163:001.5E22-Jan-20164:001.7E22-Jan-20165:001.6ENE22-Jan-20167:001.7E22-Jan-20167:001.7E22-Jan-20167:001.6E22-Jan-201610:001.9NE22-Jan-201611:002.1SE	21-Jan-2016	17:00	1.6	E
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21-Jan-201621:001ESE21-Jan-201622:001E21-Jan-201623:001.5E22-Jan-20160:001.8E22-Jan-20161:001.5E22-Jan-20162:001.5E22-Jan-20163:001.5E22-Jan-20163:001.5E22-Jan-20165:001.6ENE22-Jan-20165:001.6E22-Jan-20167:001.7E22-Jan-20167:001.6E22-Jan-201610:001.9NE22-Jan-201611:002.1SE	21-Jan-2016	19:00	1.2	SE
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22-Jan-2010 12:00 2.2 SE	22-Jan-2016	12:00	2.2	SE

22-Jan-2016	13:00	2.4	SE
22-Jan-2016	14:00	2.4	SE
22-Jan-2016	15:00	2.6	SE
22-Jan-2016	16:00	2.4	SE
22-Jan-2016	17:00	2.5	ESE
22-Jan-2016	18:00	2	SE
22-Jan-2016	19:00	1.9	ESE
22-Jan-2016	20:00	2.2	SE
22-Jan-2016	21:00	2	SE
22-Jan-2016	22:00	1.5	SE
22-Jan-2016	23:00	1.8	SE
23-Jan-2016	0:00	1.6	E
23-Jan-2016	1:00	1.4	E
23-Jan-2016	2:00	1.9	Ν
23-Jan-2016	3:00	1.9	E
23-Jan-2016	4:00	2	E
23-Jan-2016	5:00	2	SSE
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23-Jan-2016	10:00	2.9	ESE
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23-Jan-2016	13:00	2.8	E
23-Jan-2016	14:00	2.4	E
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23-Jan-2016	19:00	3.1	S
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23-Jan-2016	22:00	3.3	NNW
23-Jan-2016	23:00	3.9	NW
24-Jan-2016	0:00	4.1	NW
24-Jan-2016	1:00	4.4	Ν

24-Jan-2016	2:00	3.7	Ν
24-Jan-2016	3:00	3.6	N
24-Jan-2016	4:00	4.2	NNE
24-Jan-2016	5:00	4	ESE
24-Jan-2016	6:00	3.4	ESE
24-Jan-2016	7:00	3.2	NNE
24-Jan-2016	8:00	3	NNE
24-Jan-2016	9:00	2.9	NE
24-Jan-2016	10:00	3.4	NE
24-Jan-2016	11:00	3.8	NE
24-Jan-2016	12:00	3.4	SE
24-Jan-2016	13:00	3.4	SE
24-Jan-2016	14:00	3.6	SE
24-Jan-2016	15:00	3.5	SE
24-Jan-2016	16:00	3.5	SE
24-Jan-2016	17:00	3.1	E
24-Jan-2016	18:00	2.9	E
24-Jan-2016	19:00	3	E
24-Jan-2016	20:00	3	ESE
24-Jan-2016	21:00	2.9	ESE
24-Jan-2016	22:00	3.1	SE
24-Jan-2016	23:00	3.2	E
25-Jan-2016	0:00	3	ENE
25-Jan-2016	1:00	2.9	ENE
25-Jan-2016	2:00	2.8	ENE
25-Jan-2016	3:00	2.4	ENE
25-Jan-2016	4:00	2.2	E
25-Jan-2016	5:00	2.4	E
25-Jan-2016	6:00	2.5	WNW
25-Jan-2016	7:00	2.3	WNW
25-Jan-2016	8:00	2.6	SE
25-Jan-2016	9:00	3.1	ESE
25-Jan-2016	10:00	3	E
25-Jan-2016	11:00	3.3	ESE
25-Jan-2016	12:00	3.1	E
25-Jan-2016	13:00	3	E
25-Jan-2016	14:00	3.3	NE
	•	•	

25-Jan-2016	15:00	3.3	SE
25-Jan-2016	16:00	3.2	SE
25-Jan-2016	17:00	2.8	SE
25-Jan-2016	18:00	2.7	WNW
25-Jan-2016	19:00	2.7	SE
25-Jan-2016	20:00	1.8	W
25-Jan-2016	21:00	1.5	NW
25-Jan-2016	22:00	1.5	E
25-Jan-2016	23:00	1.5	E
26-Jan-2016	0:00	1.7	E
26-Jan-2016	1:00	1.6	NE
26-Jan-2016	2:00	1.6	ESE
26-Jan-2016	3:00	1.8	E
26-Jan-2016	4:00	1.3	E
26-Jan-2016	5:00	1.1	NE
26-Jan-2016	6:00	1	NE
26-Jan-2016	7:00	1.4	NE
26-Jan-2016	8:00	1	NE
26-Jan-2016	9:00	1.5	NE
26-Jan-2016	10:00	1.4	SE
26-Jan-2016	11:00	2.3	SE
26-Jan-2016	12:00	2.4	SE
26-Jan-2016	13:00	2.7	ESE
26-Jan-2016	14:00	2.4	SE
26-Jan-2016	15:00	2.1	SE
26-Jan-2016	16:00	2.2	NW
26-Jan-2016	17:00	1.9	WNW
26-Jan-2016	18:00	1.6	SSW
26-Jan-2016	19:00	1.4	SW
26-Jan-2016	20:00	1.4	SE
26-Jan-2016	21:00	1.6	ESE
26-Jan-2016	22:00	1.6	ENE
26-Jan-2016	23:00	1.6	NE
27-Jan-2016	0:00	1.7	ESE
27-Jan-2016	1:00	1.5	ESE
27-Jan-2016	2:00	1.3	NE
27-Jan-2016	3:00	1.3	NE

27-Jan-2016	4:00	1.2	ESE
27-Jan-2016	5:00	1.1	SE
27-Jan-2016	6:00	0.9	ESE
27-Jan-2016	7:00	1.3	ESE
27-Jan-2016	8:00	1.5	E
27-Jan-2016	9:00	1.6	ESE
27-Jan-2016	10:00	1.7	SSW
27-Jan-2016	11:00	1.7	SSW
27-Jan-2016	12:00	2.4	S
27-Jan-2016	13:00	2.1	SSW
27-Jan-2016	14:00	2.1	SSE
27-Jan-2016	15:00	2.1	SE
27-Jan-2016	16:00	1.7	NNE
27-Jan-2016	17:00	1.7	SE
27-Jan-2016	18:00	1.4	ESE
27-Jan-2016	19:00	1.2	E
27-Jan-2016	20:00	1.3	ESE
27-Jan-2016	21:00	1.6	E
27-Jan-2016	22:00	1.2	E
27-Jan-2016	23:00	1.5	NE
28-Jan-2016	0:00	1.1	NE
28-Jan-2016	1:00	1.1	NE
28-Jan-2016	2:00	1.1	NE
28-Jan-2016	3:00	1.1	SE
28-Jan-2016	4:00	1.2	SSW
28-Jan-2016	5:00	1	SSW
28-Jan-2016	6:00	0.7	S
28-Jan-2016	7:00	1	S
28-Jan-2016	8:00	1.3	SSW
28-Jan-2016	9:00	1.5	SSE
28-Jan-2016	10:00	2.2	S
28-Jan-2016	11:00	2	S
28-Jan-2016	12:00	1.8	SE
28-Jan-2016	13:00	1.9	SSE
28-Jan-2016	14:00	1.6	S
28-Jan-2016	15:00	1.7	SSE
28-Jan-2016	16:00	1.2	SSE
•	•		

28-Jan-2016	17:00	1.5	WSW
28-Jan-2016	18:00	1.1	SSW
28-Jan-2016	19:00	0.7	S
28-Jan-2016	20:00	0.7	NNE
28-Jan-2016	21:00	1	SSW
28-Jan-2016	22:00	0.8	ENE
28-Jan-2016	23:00	0.9	E
29-Jan-2016	0:00	1	ESE
29-Jan-2016	1:00	1	ESE
29-Jan-2016	2:00	1.2	WNW
29-Jan-2016	3:00	1.6	WSW
29-Jan-2016	4:00	0.9	S
29-Jan-2016	5:00	0.9	SE
29-Jan-2016	6:00	0.9	WNW
29-Jan-2016	7:00	0.8	ENE
29-Jan-2016	8:00	0.9	SW
29-Jan-2016	9:00	1	N
29-Jan-2016	10:00	1.8	NNE
29-Jan-2016	11:00	1.8	N
29-Jan-2016	12:00	1.6	NE
29-Jan-2016	13:00	1.8	ENE
29-Jan-2016	14:00	1.5	NE
29-Jan-2016	15:00	1.9	NE
29-Jan-2016	16:00	1.7	NE
29-Jan-2016	17:00	1.5	E
29-Jan-2016	18:00	1.2	NE
29-Jan-2016	19:00	0.9	NE
29-Jan-2016	20:00	0.9	ENE
29-Jan-2016	21:00	0.9	ENE
29-Jan-2016	22:00	1.1	ENE
29-Jan-2016	23:00	1	ESE
30-Jan-2016	0:00	0.9	ESE
30-Jan-2016	1:00	1	NE
30-Jan-2016	2:00	0.9	E
30-Jan-2016	3:00	0.8	NE
30-Jan-2016	4:00	1	ESE
30-Jan-2016	5:00	1	WNW

30-Jan-2016	6:00	1	ENE
30-Jan-2016	7:00	1.1	NNE
30-Jan-2016	8:00	1.2	NE
30-Jan-2016	9:00	1.3	W
30-Jan-2016	10:00	1.4	NNE
30-Jan-2016	11:00	1.6	WSW
30-Jan-2016	12:00	1.8	ESE
30-Jan-2016	13:00	1.8	ENE
30-Jan-2016	14:00	1.9	E
30-Jan-2016	15:00	2	NNE
30-Jan-2016	16:00	1.6	NNE
30-Jan-2016	17:00	1.3	ENE
30-Jan-2016	18:00	1.4	NE
30-Jan-2016	19:00	1.1	ESE
30-Jan-2016	20:00	1.1	S
30-Jan-2016	21:00	1	ESE
30-Jan-2016	22:00	0.9	SSE
30-Jan-2016	23:00	0.8	NNE
31-Jan-2016	0:00	2.4	WNW
31-Jan-2016	1:00	2.7	ESE
31-Jan-2016	2:00	2.4	S
31-Jan-2016	3:00	2.7	SSW
31-Jan-2016	4:00	2.3	SSE
31-Jan-2016	5:00	2.6	WNW
31-Jan-2016	6:00	2.1	NE
31-Jan-2016	7:00	1.8	ESE
31-Jan-2016	8:00	1.8	ESE
31-Jan-2016	9:00	2	ENE
31-Jan-2016	10:00	2.3	NE
31-Jan-2016	11:00	2.6	SSW
31-Jan-2016	12:00	2.5	S
31-Jan-2016	13:00	2.9	ESE
31-Jan-2016	14:00	2.8	NE
31-Jan-2016	15:00	2.7	NE
31-Jan-2016	16:00	2.5	NE
31-Jan-2016	17:00	2.6	SSW
31-Jan-2016	18:00	2.5	ENE

31-Jan-2016	19:00	2.6	WSW
31-Jan-2016	20:00	2.4	SSE
31-Jan-2016	21:00	2.4	ESE
31-Jan-2016	22:00	2.1	SW
31-Jan-2016	23:00	1.7	W

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

Contract No. KL/2012/03 Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area Impact Air and Noise Monitoring Schedule for January 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
	•				1-Jan		2-Jan
						24 hr TSP	
3-Jan	4-Jan	5-Jan	6-Jan	7-Jan	8-Jan		9-Jan
	1 hr TSP X3 AM2, AM3(A), AM4(A) & AM5(A) Noise (M8)	Noise (M9)		Noise (M6(A) & M7) 24 hr TSP	1 hr TSP X3 AM2, AM3(A), AM4(A) & AM5(A)		
10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan		16-Jan
	Noise (M9)		Noise (M6(A) & M7) 24 hr TSP	l hr TSP X3 AM2, AM3(A), AM4(A) & AM5(A) Noise (M8)			
17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan		23-Jan
		24 hr TSP	1 hr TSP X3 AM2, AM3(A), AM4(A) & AM5(A) Noise (M8)	Noise (M9)	Noise (M6(A) & M7)		
24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan		30-Jan
	24 hr TSP	1 hr TSP X3 AM2, AM3(A), AM4(A) & AM5(A) Noise (M8)	Noise (M9)	Noise (M6(A) & M7)	24 hr TSP		
31-Jan							1-Jan

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

Air Quality Monitoring Station

AM2 - Lee Kau Yan Memorial School AM3(A) - Holy Trinity Bradbury Centre AM4(A) - EMSD Workshops AM5(A) - Po Leung Kuk Ngan Po Ling College

Noise Monitoring Station

M6(A) - Oblate Primary School M7 - CCC Kei To Secondary School M8 - Po Leung Kuk Ngan Po Ling College M9 - Tak Long Estate

Contract No. KL/2012/03 Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area Tentative Impact Air and Noise Monitoring Schedule for February 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb
	1 hr TSP X3 AM2, AM3(A), AM4(A) & AM5(A) Noise (M8)	Noise (M9)		Noise (M6(A) & M7) 24 hr TSP	1 hr TSP X3 AM2, AM3(A), AM4(A) & AM5(A)	24 hr TSP
7-Fel	b 8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb
				1 hr TSP X3 AM2, AM3(A), AM4(A) & AM5(A) Noise (M8)	Noise (M6(A), M7 & M9) 24 hr TSP	
14-Fel	b 15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb
		24 hr TSP	l hr TSP X3 AM2, AM3(A), AM4(A) & AM5(A) Noise (M8)	Noise (M6(A), M7 & M9)		
21-Fel	b 22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb
	24 hr TSP	1 hr TSP X3 AM2, AM3(A), AM4(A) & AM5(A) Noise (M8)	Noise (M9)	Noise (M6(A) & M7)	24 hr TSP	
28-Fel	b 29-Feb					
	1 hr TSP X3 AM2, AM3(A), AM4(A) & AM5(A)					

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

Air Quality Monitoring Station

Noise Monitoring Station

AM2 - Lee Kau Yan Memorial School AM3(A) - Holy Trinity Bradbury Centre AM4(A) - EMSD Workshops AM5(A) - Po Leung Kuk Ngan Po Ling College M6(A) - Oblate Primary School M7 - CCC Kei To Secondary School M8 - Po Leung Kuk Ngan Po Ling College M9 - Tak Long Estate

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

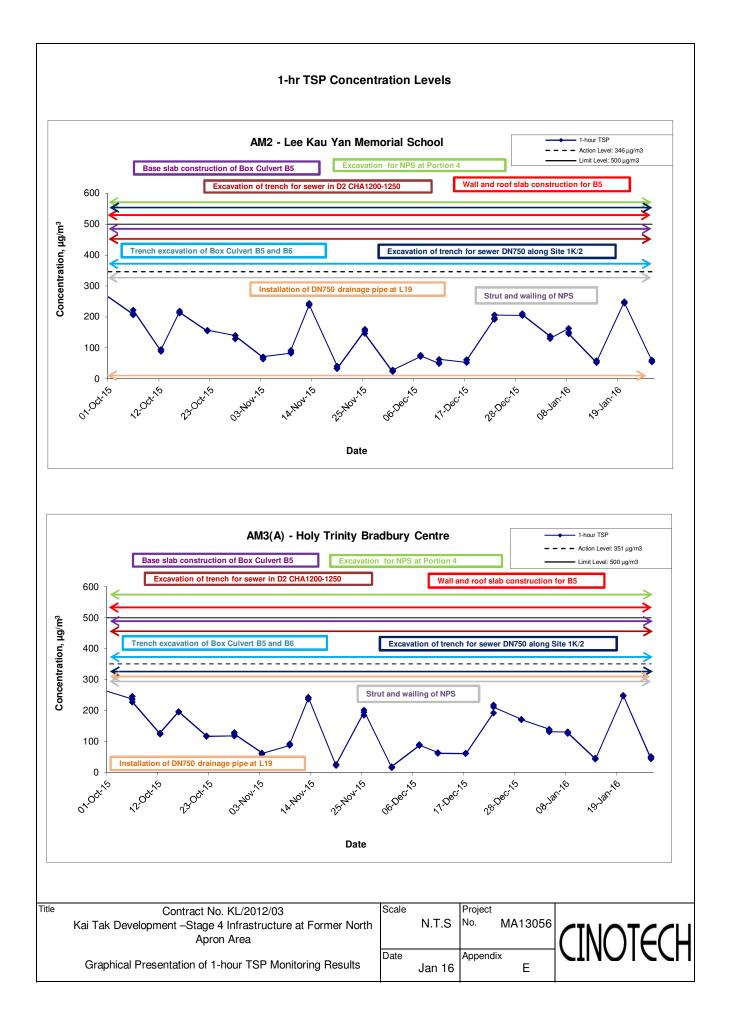
ocation AM2 -	Ecc Rud Tu		
Date	Time	Weather	Particulate Concentration (µg/m3)
4-Jan-16	9:00	Cloudy	138.0
4-Jan-16	10:00	Cloudy	131.4
4-Jan-16	11:00	Cloudy	129.9
8-Jan-16	9:00	Sunny	162.8
8-Jan-16	10:00	Sunny	150.9
8-Jan-16	11:00	Sunny	145.7
14-Jan-16	13:00	Cloudy	52.3
14-Jan-16	14:00	Cloudy	58.8
14-Jan-16	15:00	Cloudy	53.9
20-Jan-16	13:00	Cloudy	248.8
20-Jan-16	14:00	Cloudy	244.6
20-Jan-16	15:00	Cloudy	247.6
26-Jan-16	13:00	Cloudy	56.8
26-Jan-16	14:00	Cloudy	61.1
26-Jan-16	15:00	Cloudy	54.8
		Average	129.2
		Maximum	248.8
		Maximum Minimum	248.8 52.3
ocation AM3(A	.) - Holy Trinit		52.3
ocation AM3(A	.) - Holy Trinit Time	Minimum	52.3
•		Minimum y Bradbury Centr	52.3 e
Date	Time	Minimum y Bradbury Centr Weather	52.3 e Particulate Concentration (μg/m3)
Date 4-Jan-16	Time 8:45	Minimum ty Bradbury Centr Weather Cloudy	52.3 e Particulate Concentration (μg/m3) 139.6
Date 4-Jan-16 4-Jan-16	Time 8:45 9:45	Minimum y Bradbury Centr Weather Cloudy Cloudy	52.3 e Particulate Concentration (μg/m3) 139.6 134.2
Date 4-Jan-16 4-Jan-16 4-Jan-16	Time 8:45 9:45 10:45	Minimum y Bradbury Centr Weather Cloudy Cloudy Cloudy	52.3 e Particulate Concentration (μg/m3) 139.6 134.2 131.1
Date 4-Jan-16 4-Jan-16 4-Jan-16 8-Jan-16	Time 8:45 9:45 10:45 13:40	Minimum y Bradbury Centr Weather Cloudy Cloudy Cloudy Sunny	52.3 e Particulate Concentration (μg/m3) 139.6 134.2 131.1 130.9
Date 4-Jan-16 4-Jan-16 4-Jan-16 8-Jan-16 8-Jan-16	Time 8:45 9:45 10:45 13:40 14:40	Minimum y Bradbury Centr Weather Cloudy Cloudy Cloudy Sunny Sunny	52.3 e Particulate Concentration (μg/m3) 139.6 134.2 131.1 130.9 126.4
Date 4-Jan-16 4-Jan-16 8-Jan-16 8-Jan-16 8-Jan-16 8-Jan-16 14-Jan-16	Time 8:45 9:45 10:45 13:40 14:40 15:40	Minimum y Bradbury Centr Weather Cloudy Cloudy Cloudy Sunny Sunny Sunny	52.3 Particulate Concentration (μg/m3) 139.6 134.2 131.1 130.9 126.4 128.6
Date 4-Jan-16 4-Jan-16 4-Jan-16 8-Jan-16 8-Jan-16 8-Jan-16	Time 8:45 9:45 10:45 13:40 14:40 15:40 9:00	Minimum y Bradbury Centr Weather Cloudy Cloudy Cloudy Sunny Sunny Sunny Cloudy	52.3 Particulate Concentration (μg/m3) 139.6 134.2 131.1 130.9 126.4 128.6 43.9
Date 4-Jan-16 4-Jan-16 4-Jan-16 8-Jan-16 8-Jan-16 14-Jan-16 14-Jan-16	Time 8:45 9:45 10:45 13:40 14:40 15:40 9:00 10:00	Minimum y Bradbury Centr Weather Cloudy Cloudy Cloudy Sunny Sunny Sunny Cloudy Cloudy Cloudy	52.3 Particulate Concentration (μg/m3) 139.6 134.2 131.1 130.9 126.4 128.6 43.9 45.9
Date 4-Jan-16 4-Jan-16 4-Jan-16 8-Jan-16 8-Jan-16 14-Jan-16 14-Jan-16 14-Jan-16	Time 8:45 9:45 10:45 13:40 14:40 15:40 9:00 10:00 11:00	Minimum y Bradbury Centr Weather Cloudy Cloudy Cloudy Sunny Sunny Cloudy Cloudy Cloudy Cloudy Cloudy	52.3 Particulate Concentration (μg/m3) 139.6 134.2 131.1 130.9 126.4 128.6 43.9 45.9 42.8
Date 4-Jan-16 4-Jan-16 4-Jan-16 8-Jan-16 8-Jan-16 14-Jan-16 14-Jan-16 14-Jan-16 20-Jan-16	Time 8:45 9:45 10:45 13:40 14:40 15:40 9:00 10:00 11:00 8:45	Minimum y Bradbury Centr Weather Cloudy Cloudy Cloudy Sunny Sunny Sunny Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy	52.3 Particulate Concentration (μg/m3) 139.6 134.2 131.1 130.9 126.4 128.6 43.9 45.9 42.8 247.0
Date 4-Jan-16 4-Jan-16 4-Jan-16 8-Jan-16 8-Jan-16 14-Jan-16 14-Jan-16 14-Jan-16 20-Jan-16 20-Jan-16	Time 8:45 9:45 10:45 13:40 14:40 15:40 9:00 10:00 11:00 8:45 9:45	Minimum y Bradbury Centr Weather Cloudy Cloudy Cloudy Sunny Sunny Sunny Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy	52.3 Particulate Concentration (μg/m3) 139.6 134.2 131.1 130.9 126.4 128.6 43.9 45.9 42.8 247.0 248.4
Date 4-Jan-16 4-Jan-16 8-Jan-16 8-Jan-16 8-Jan-16 14-Jan-16 14-Jan-16 14-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16	Time 8:45 9:45 10:45 13:40 14:40 15:40 9:00 10:00 11:00 8:45 9:45 10:00	Minimum y Bradbury Centr Weather Cloudy Cloudy Cloudy Sunny Sunny Sunny Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy	52.3 Particulate Concentration (μg/m3) 139.6 134.2 131.1 130.9 126.4 128.6 43.9 45.9 42.8 247.0 248.4 248.7
Date 4-Jan-16 4-Jan-16 8-Jan-16 8-Jan-16 8-Jan-16 14-Jan-16 14-Jan-16 14-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16	Time 8:45 9:45 10:45 13:40 14:40 15:40 9:00 10:00 11:00 8:45 9:45 10:45	Minimum y Bradbury Centr Weather Cloudy Cloudy Cloudy Sunny Sunny Sunny Cloudy	52.3 Particulate Concentration (μg/m3) 139.6 134.2 131.1 130.9 126.4 128.6 43.9 45.9 42.8 247.0 248.4 248.7 44.6
Date 4-Jan-16 4-Jan-16 8-Jan-16 8-Jan-16 8-Jan-16 14-Jan-16 14-Jan-16 14-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 26-Jan-16	Time 8:45 9:45 10:45 13:40 14:40 15:40 9:00 10:00 11:00 8:45 9:45 10:00 11:00 8:45 9:45 10:45 13:20 14:20	Minimum y Bradbury Centr Weather Cloudy Cloudy Cloudy Sunny Sunny Sunny Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy	52.3 Particulate Concentration (μg/m3) 139.6 134.2 131.1 130.9 126.4 128.6 43.9 45.9 42.8 247.0 248.4 248.7 44.6 48.7
Date 4-Jan-16 4-Jan-16 8-Jan-16 8-Jan-16 8-Jan-16 14-Jan-16 14-Jan-16 14-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 26-Jan-16	Time 8:45 9:45 10:45 13:40 14:40 15:40 9:00 10:00 11:00 8:45 9:45 10:00 11:00 8:45 9:45 10:45 13:20 14:20	Minimum y Bradbury Centr Weather Cloudy Cloudy Cloudy Sunny Sunny Sunny Cloudy	52.3 Particulate Concentration (μg/m3) 139.6 134.2 131.1 130.9 126.4 128.6 43.9 45.9 42.8 247.0 248.4 248.7 44.6 48.7 51.2

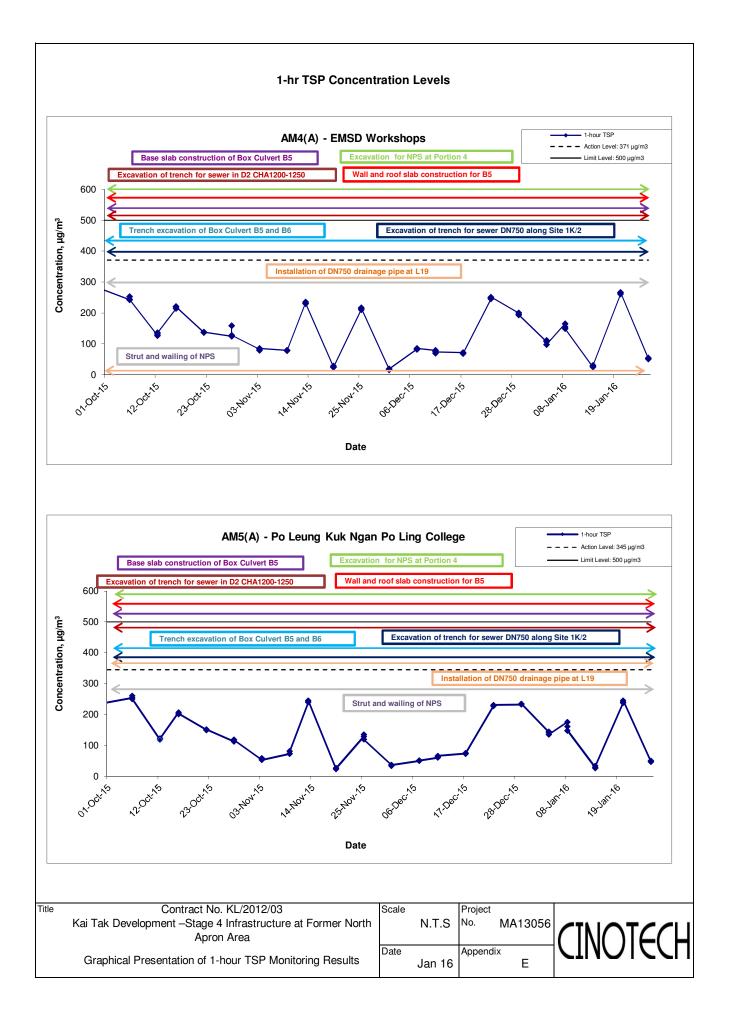
Appendix E - 1-hour TSP Monitoring Results

Date	Time	Weather	Particulate Concentration (µg/m3)
4-Jan-16	13:00	Cloudy	107.5
4-Jan-16	14:00	Cloudy	111.6
4-Jan-16	15:00	Cloudy	97.9
8-Jan-16	8:35	Sunny	165.4
8-Jan-16	9:35	Sunny	154.8
8-Jan-16	10:35	Sunny	150.1
14-Jan-16	13:00	Cloudy	25.6
14-Jan-16	14:00	Cloudy	30.7
14-Jan-16	15:00	Cloudy	28.6
20-Jan-16	9:00	Cloudy	262.0
20-Jan-16	10:00	Cloudy	267.3
20-Jan-16	11:00	Cloudy	265.5
26-Jan-16	9:00	Cloudy	51.8
26-Jan-16	10:00	Cloudy	53.0
26-Jan-16	11:00	Cloudy	54.3
		Average	121.7
		Maximum	267.3
	Г	Minimum	25.6

Appendix E - 1-hour TSP Monitoring Results

Location AM5(A	A) - Po Leun	g Kuk Ngan Po Li	ng College
Date	Time	Weather	Particulate Concentration (μ g/m3)
4-Jan-16	9:00	Cloudy	142.0
4-Jan-16	10:00	Cloudy	145.0
4-Jan-16	11:00	Cloudy	135.8
8-Jan-16	8:00	Sunny	176.3
8-Jan-16	9:00	Sunny	161.0
8-Jan-16	10:00	Sunny	148.4
14-Jan-16	9:00	Cloudy	28.6
14-Jan-16	10:00	Cloudy	26.6
14-Jan-16	11:00	Cloudy	33.8
20-Jan-16	9:00	Cloudy	238.5
20-Jan-16	10:00	Cloudy	240.2
20-Jan-16	11:00	Cloudy	245.6
26-Jan-16	9:00	Cloudy	47.1
26-Jan-16	10:00	Cloudy	48.1
26-Jan-16	11:00	Cloudy	50.3
		Average	124.5
		Maximum	245.6
		Minimum	26.6





APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - 24-hour TSP Monitoring Results

Location AM2 - Lee Kau Yan Memorial School

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	(m3/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m3/min)	(m3)	(µg/m3)
2-Jan-16	Cloudy	290.4	770.5	3.3510	3.4163	0.0653	15855.9	15879.9	24.0	1.23	1.23	1.23	1767.0	37.0
7-Jan-16	Cloudy	290.4	763.8	3.2286	3.3112	0.0826	15879.9	15903.9	24.0	1.22	1.22	1.22	1759.9	46.9
13-Jan-16	Cloudy	287.4	770.5	3.3566	3.4743	0.1177	15903.9	15927.9	24.0	1.23	1.23	1.23	1775.4	66.3
19-Jan-16	Cloudy	287.5	769.3	3.2896	3.4513	0.1617	15927.9	15951.9	24.0	1.23	1.23	1.23	1773.9	91.2
25-Jan-16	Cloudy	287.5	768.9	3.3139	3.4315	0.1176	15951.9	15975.9	24.0	1.23	1.23	1.23	1773.5	66.3
29-Jan-16	Cloudy	289.4	766.8	3.3334	3.4198	0.0864	15975.9	15999.9	24.0	1.23	1.23	1.23	1765.9	48.9
													Min	37.0
													Max	91.2
													Average	59.4

Location AM3(A) - Holy Trinity Bradbury Centre

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m3/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m3/min)	(m3)	(µg/m3)
2-Jan-16	Cloudy	290.7	771.3	3.3075	3.4891	0.1816	8486.7	N/A*	24.0	1.23	1.22	1.23	1764.2	102.9
7-Jan-16	Cloudy	290.4	763.3	3.3261	3.4197	0.0936	8486.7	8510.7	24.0	1.22	1.22	1.22	1756.8	53.3
13-Jan-16	Cloudy	288.3	770.1	3.2955	3.4106	0.1151	8510.7	8534.7	24.0	1.23	1.23	1.23	1768.8	65.1
19-Jan-16	Cloudy	287.2	769.7	3.2975	3.4734	0.1759	8534.7	8558.7	24.0	1.23	1.23	1.23	1772.2	99.3
25-Jan-16	Cloudy	287.6	769.1	3.3157	3.4448	0.1291	8558.7	8582.7	24.0	1.23	1.23	1.23	1770.4	72.9
29-Jan-16	Cloudy	289.7	766.3	3.3167	3.4042	0.0875	8582.7	8606.7	24.0	1.22	1.22	1.22	1761.8	49.7
*Remarks: Time	er stopped due t	to power failı	ure.										Min	49.7
													Max	102.9
													Average	73.9

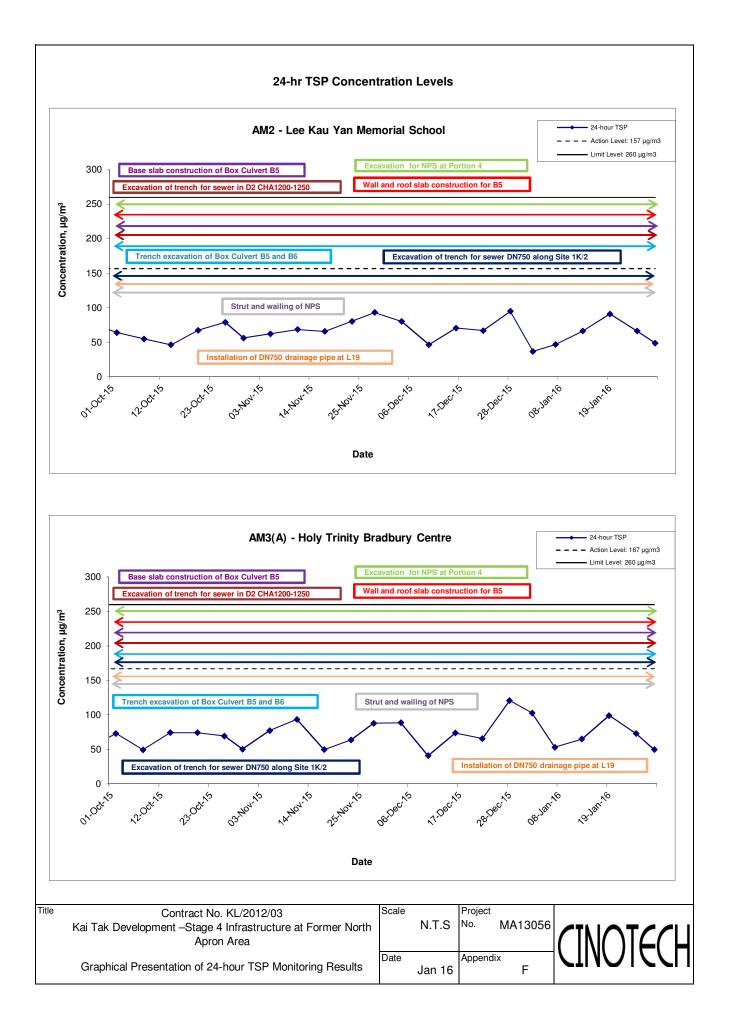
Location AM4(A) - EMSD Workshops

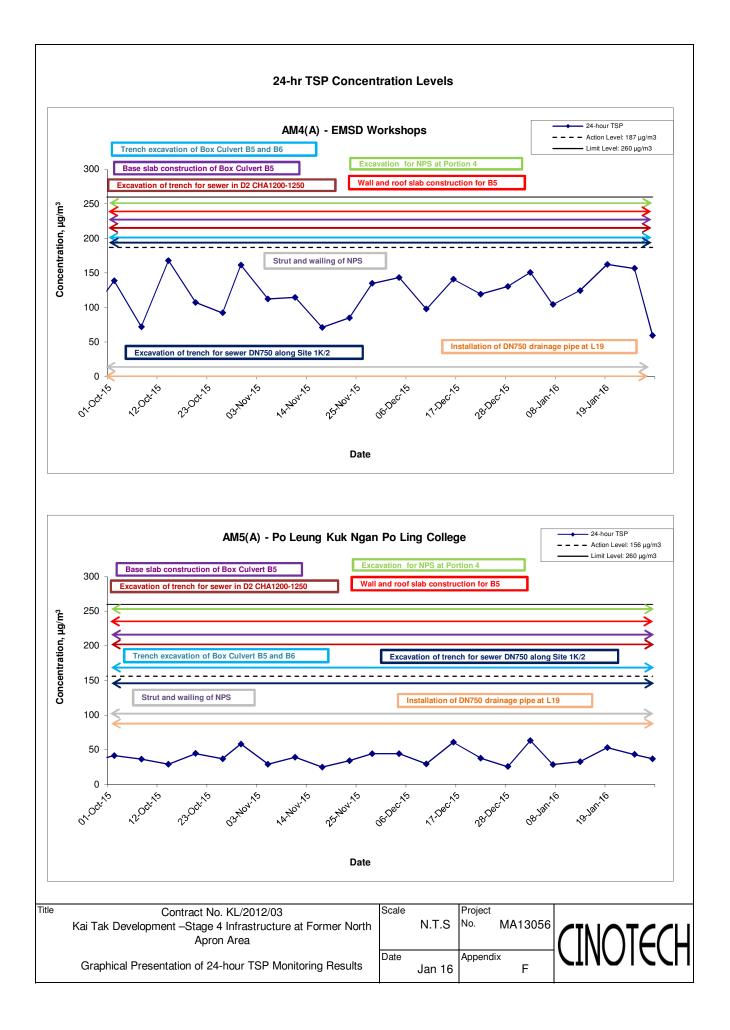
Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	(m3/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m3/min)	(m3)	(µg/m3)
2-Jan-16	Cloudy	290.3	770.6	3.2877	3.5554	0.2677	4792.5	4816.5	24.0	1.23	1.23	1.23	1774.2	150.9
7-Jan-16	Cloudy	290.2	763.6	3.3264	3.5107	0.1843	4816.5	4840.5	24.0	1.23	1.23	1.23	1767.1	104.3
13-Jan-16	Cloudy	287.4	770.5	3.3053	3.5269	0.2216	4840.5	4864.5	24.0	1.24	1.24	1.24	1782.3	124.3
19-Jan-16	Cloudy	287.2	769.6	3.3354	3.6246	0.2892	4864.5	4888.5	24.0	1.24	1.24	1.24	1781.9	162.3
25-Jan-16	Cloudy	287.4	768.7	3.3337	3.6126	0.2789	4888.5	4912.5	24.0	1.24	1.24	1.24	1780.4	156.6
29-Jan-16	Cloudy	289.4	766.0	3.3281	3.4338	0.1057	4912.5	4936.5	24.0	1.23	1.23	1.23	1771.9	59.7
													Min	59.7
													Max	162.3
													Average	126.4

Location AM5(A) - Po Leung Kuk Ngan Po Ling College

Start Date	Weather	Air	Atmospheric	Filter W	'eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	(m3/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m3/min)	(m3)	(µg/m3)
2-Jan-16	Cloudy	290.7	771.2	3.3392	3.4509	0.1117	1058.6	1082.6	24.0	1.23	1.22	1.23	1764.1	63.3
7-Jan-16	Cloudy	290.7	763.3	3.3191	3.3692	0.0501	1082.6	1106.6	24.0	1.22	1.22	1.22	1755.3	28.5
13-Jan-16	Cloudy	287.5	770.7	3.3176	3.3757	0.0581	1106.6	1130.6	24.0	1.23	1.23	1.23	1773.0	32.8
19-Jan-16	Cloudy	287.5	769.7	3.3337	3.4278	0.0941	1130.6	1154.6	24.0	1.23	1.23	1.23	1771.9	53.1
25-Jan-16	Cloudy	288.0	767.3	3.3078	3.384	0.0762	1154.6	1178.6	24.0	1.23	1.23	1.23	1767.7	43.1
29-Jan-16	Cloudy	288.5	766.6	3.2884	3.3538	0.0654	1178.6	1202.6	24.0	1.23	1.23	1.23	1765.5	37.0
													Min	28.5
													Max	63.3

Average 43.0





APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

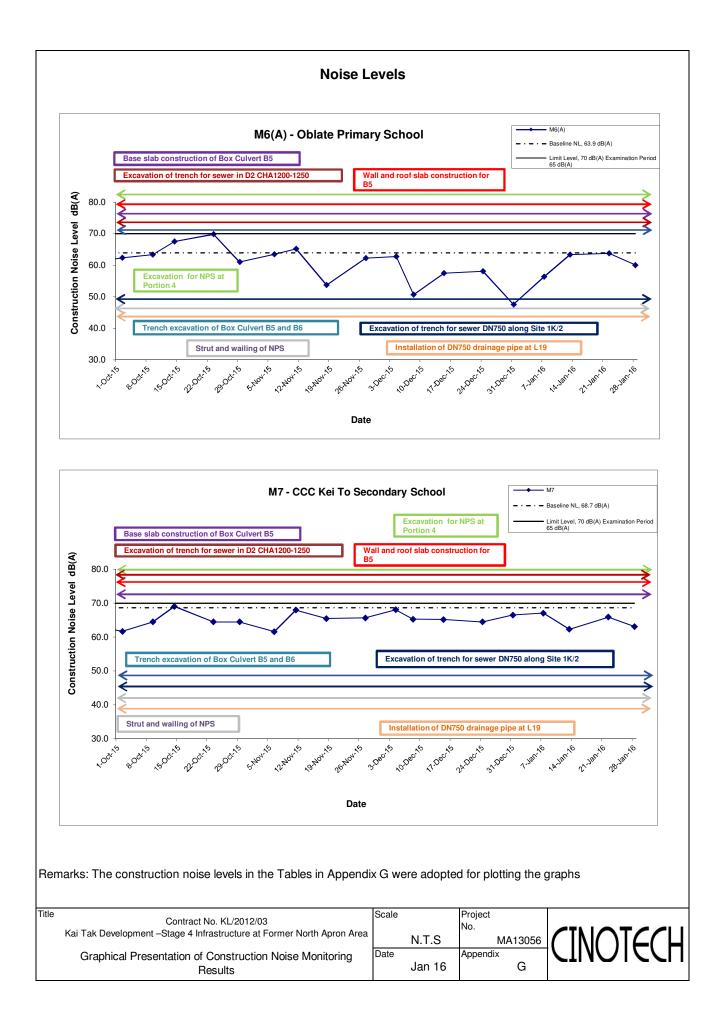
Appendix G - Noise Monitoring Results

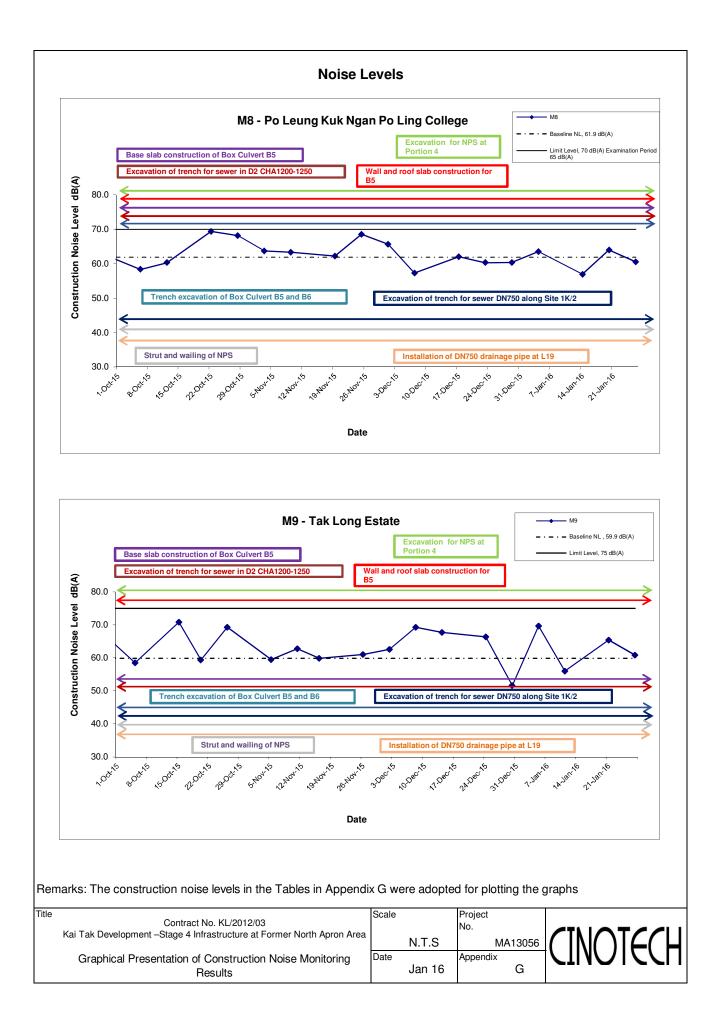
Location M6(Location M6(A) - Oblate Primary School											
				Unit: dB (A) (30-min)								
Date	Time	Weather	Measured Noise Level Baseline Level Construction Noise									
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}					
7-Jan-16	15:00	Cloudy	64.6	69.8	60.5		56.3					
13-Jan-16	13:00	Cloudy	63.4	65.0	61.2	63.9	63.4 Measured \leq Baseline					
22-Jan-16	8:45	Cloudy	63.8	66.6	58.9	63.9	63.8 Measured \leq Baseline					
28-Jan-16	10:30	Cloudy	65.4	67.5	61.3		60.1					

Location M7 - CCC Kei To Secondary School											
				Unit: dB (A) (30-min)							
Date	Time	Weather	Meas	Construction Noise Level							
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}				
7-Jan-16	11:30	Cloudy	67.1	69.2	62.0		67.1 Measured \leq Baseline				
13-Jan-16	11:30	Cloudy	69.6	71.2	65.4	68.7	62.3				
22-Jan-16	9:40	Cloudy	65.9	72.3	63.1	00.7	65.9 Measured \leq Baseline				
28-Jan-16	9:45	Cloudy	63.1	64.2	61.5		63.1 Measured ≦ Baseline				

Location M8 -	Location M8 - Po Leung Kuk Ngan Po Ling College											
				Unit: dB (A) (30-min)								
Date	Time	Weather	Meas	Construction Noise Level								
			L _{eq}	L _{eq} L ₁₀ L ₉₀ L _{eq} L _{eq}								
4-Jan-16	9:15	Cloudy	65.8	70.1	62.2		63.5					
14-Jan-16	9:45	Cloudy	63.1	65.3	60.0	61.9	56.9					
20-Jan-16	9:15	Cloudy	66.1	65.5	62.8	01.9	64.0					
26-Jan-16	9:10	Cloudy	64.3	65.8	61.9		60.6					

Location M9 -	Location M9 - Tak Long Estate											
				Unit: dB (A) (30-min)								
Date	Time	Weather	Meas	sured Noise I	Level	Baseline Level	Construction Noise Level					
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}					
5-Jan-16	13:07	Cloudy	70.1	71.9	67.8		69.7					
11-Jan-16	13:00	Sunny	61.4	63.5	60.2	59.9	56.1					
21-Jan-16	14:10	Sunny	66.5	68.4	61.9	59.9	65.4					
27-Jan-16	13:00	Cloudy	63.4	65.7	62.1		60.8					





APPENDIX H SUMMARY OF EXCEEDANCE

Contract No. KL/2012/03 Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area

Appendix H – Summary of Exceedance

Exceedance Report for Contract No. KL/2012/03

- (A) Exceedance Report for Air Quality (NIL in the reporting month)
- (B) Exceedance Report for Construction Noise (NIL in the reporting month)
- (C) Exceedance Report for Landscape and Visual (NIL in the reporting month)

APPENDIX I SITE AUDIT SUMMARY

Checklist Reference Number	160108	
Date	8 January 2016	
Time	10:00 - 11:30	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 151230), all environmental deficiencies were observed rectified/improved by the Contractor.	

	Name	, Signature	Date
Recorded by	Kevin Lam	Keni	8 January 2016
Checked by	Dr. Priscilla Choy	hih	8 January 2016
		1	

Checklist Reference Number	160115	
Date	15 January 2016	
Time	10:00 - 11:30	

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
160115-R01	• Oil container was observed without a drip tray. The Contractor was reminded to provide a proper drip tray to prevent oil leakage.	Е 8, 9
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 160108), all environmental deficiencies were observed rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Kevin Lam	Kevi	15 January 2016
Checked by	Dr. Priscilla Choy	NTO	15 January 2016

Checklist Reference Number	160120	
Date	20 January 2016	
Time	14:00 - 15:30	

		Related
Ref. No.	Non-Compliance	Item No
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	-
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	•
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	-
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G, Permits /Licences	
	No environmental deficiency was identified during site inspection.	
. <u>,</u>	H. Others	
	• Follow-up on previous audit section (Ref. No.: 160115), all environmental deficiencies were observed rectified/improved by the Contractor.	

Name	Signature	Date
Kevin Lam	Remain	20 January 2016
Dr. Priscilla Choy	WIL	20 January 2016
	Kevin Lam	Kevin Lam Dr. Priscilla Choy

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	160129	
Date	29 January 2016	
Time	10:00 - 11:00	

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	÷
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 160120), all environmental deficiencies were observed rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Victor Wong		29 January 2016
Checked by	Dr. Priscilla Choy	I WI	29 January 2016
		1	

•

Contract No. KL/2012/03 Kai Tak Development - Stage 4 Infrastructure at Former North Apron Area EP-344/2009 - New Sewage Pumping Stations serving Kai Tak Development

Checklist Reference Number	160108	
Date	8 January 2016	
Time	10:00 - 11:30	

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 151230), no major environmental	
	deficiencies were observed during the site inspection.	

	Name	Signature	Date
Recorded by	Kevin Lam	Kevi	8 January 2016
Checked by	Dr. Priscilla Choy	WER	8 January 2016
Checked by			

Contract No. KL/2012/03 Kai Tak Development - Stage 4 Infrastructure at Former North Apron Area EP-344/2009 - New Sewage Pumping Stations serving Kai Tak Development

Checklist Reference Number	160115	
Date	15 January 2016	
Time	10:00 - 11:30	

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 160108), no major environmental deficiencies were observed during the site inspection.	

Name	Şignature	Date
Kevin Lam	Ken	15 January 2016
Dr. Priscilla Choy	h I	15 January 2016
	Kevin Lam	Kevin Lam

Contract No. KL/2012/03 Kai Tak Development - Stage 4 Infrastructure at Former North Apron Area EP-344/2009 - New Sewage Pumping Stations serving Kai Tak Development

Checklist Reference Number	160120	
Date	20 January 2016	
Time	14:00 - 15:30	

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	· · · · · · · · · · · · · · · · · · ·
	No environmental deficiency was identified during site inspection.	
<u> </u>	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 160115), no major environmental	
	deficiencies were observed during the site inspection.	

	Name	Signature	Date
Recorded by	Kevin Lam	Revie	20 January 2016
Checked by	Dr. Priscilla Choy	WL.	20 January 2016
		T	

Checklist Reference Number	160129	
Date	29 January 2016	
Time	10:00 - 11:00	

		Related
Ref. No.	Non-Compliance	Item No
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	
,	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	· · · · · · · · · · · · · · · · · · ·
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 160120), no major environmental	
	deficiencies were observed during the site inspection.	

	Name	Signature	Date
Recorded by	Victor Wong		29 January 2016
Checked by	Dr. Priscilla Choy	WZ	29 January 2016

APPENDIX J EVENT ACTION PLANS

Event/Action Plan for Air Quality

EVENT	ACTION					
	ET	IEC	ER	CONTRACTOR		
Action Level being	1. Identify source and investigate the	1. Check monitoring data submitted	1. Notify Contractor.	1. Rectify any unacceptable practice;		
exceeded by	causes of exceedance;	by ET;		2. Amend working methods if		
one sampling	2. Inform Contactor, IEC and ER;	2. Check Contractor's working		appropriate.		
	3. Repeat measurement to confirm finding.	method.				
Action Level being	1. Identify source and investigate the	1. Check monitoring data submitted	1. Confirm receipt of notification	1. Discuss with ET and IEC on proper		
exceeded by	causes of exceedance;	by ET;	of exceedance in writing;	remedial actions;		
two or more	2. Inform Contractor, IEC and ER;	2. Check Contractor's working	2. Notify Contractor;	2. Submit proposals for remedial		
consecutive	3. Increase monitoring frequency to daily;	method;	3. In consolidation with the IEC,	actions to ER and IEC within three		
sampling	4. Discuss with IEC and Contractor on	3. Discuss with ET and Contractor on	agree with the Contractor on the	working days of notification;		
	remedial actions required;	possible remedial measures;	remedial measures to be	3. Implement the agreed proposals;		
	5. Assess the effectiveness of	4. Advise the ER on the effectiveness	implemented;	4. Amend proposal if appropriate.		
	Contractor's remedial actions;	of the proposed remedial measures.	4. Supervise implementation of			
	6. If exceedance continues, arrange		remedial measures;			
	meeting with IEC and ER;		5. Conduct meeting with ET and			
	7. If exceedance stops, cease additional		IEC if exceedance continues.			
	monitoring.					
Limit Level being	1. Identify source and investigate the	1. Check monitoring data submitted	1. Confirm receipt of notification	1. Take immediate action to avoid		
exceeded by	causes of exceedance;	by ET;	of exceedance in writing;	further exceedance;		
one sampling	2. Inform Contractor, IEC, ER, and EPD;	2. Check Contractor's working	2. Notify Contractor;	2. Discuss with ET and IEC on proper		
	3. Repeat measurement to confirm finding;	method;	3. In consolidation with the IEC,	remedial actions;		
	4. Assess effectiveness of	3. Discuss with ET and Contractor on	agree with the Contractor on the	3. Submit proposals for remedial		
	Contractor's remedial actions and keep	possible remedial measures;	remedial measures to be	actions to ER and IEC within three		

	EPD, IEC and ER informed of	4. Advise the ER on the	implemented;	working days of notification;
	the results.	effectiveness of the proposed	4. Supervise implementation of	4. Implement the agreed proposals.
		remedial measures.	remedial measures;	
			5. Conduct meeting with ET and	
			IEC if exceedance continues.	
Limit Level being	1. Notify IEC, ER, Contractor and	1. Check monitoring data submitted	1. Confirm receipt of notification	1. Take immediate action to avoid
exceeded by	EPD;	by ET;	of exceedance in writing;	further exceedance;
two or more	2. Repeat measurement to confirm	2. Check Contractor's working	2. Notify Contractor;	2. Discuss with ET, ER and IEC on
consecutive	findings;	method;	3. In consolidation with the IEC,	proper remedial actions;
sampling	3. Carry out analysis of Contractor's	3. Discuss amongst ER, ET, and	agree with the Contractor on the	3. Submit proposals for remedial
	working procedures to identify source and	Contractor on the potential remedial	remedial measures to be	actions to IEC within three working
	investigate the causes of exceedance;	actions;	implemented;	days of notification;
	4. Increase monitoring frequency to	4. Review Contractor's remedial	4. Supervise implementation of	4. Implement the agreed proposals;
	daily;	actions whenever necessary to	remedial measures;	5. Submit further remedial actions if
	5. Arrange meeting with IEC, ER	assure their effectiveness and	5. If exceedance continues,	problem still not under control;
	and Contractor to discuss the	advise the ER accordingly.	consider stopping the Contractor	6. Stop the relevant portion of works
	remedial actions to be taken;		to continue working on that	as instructed by the ER until the
	6. Assess effectiveness of		portion of work which causes the	exceedance is abated.
	Contractor's remedial actions and		exceedance until the	
	keep EPD, IEC and ER informed		exceedance is abated.	
	of the results;			
	7. If exceedance stops, cease additional			
	monitoring.			

Event/Action Plan for Construction Noise

EVENT	ACTION					
	ET	IEC	ER	CONTRACTOR		
Action Level	1. Notify ER, IEC and Contractor;	1. Review the investigation	1. Confirm receipt of	1. Submit noise mitigation		
being	2. Carry out investigation;	results submitted by the ET;	notification of failure in	proposals to IEC and ER;		
exceeded	3. Report the results of investigation	2. Review the proposed remedial	writing;	2. Implement noise mitigation		
	to the IEC, ER and Contractor;	measures by the Contractor and	2. Notify Contractor;	proposals.		
	4. Discuss with the IEC and	advise the ER accordingly;	3. In consolidation with the	(The above actions should be		
	Contractor on remedial measures	3. Advise the ER on the	IEC, agree with the	taken within 2 working days after		
	required;	effectiveness of the proposed	Contractor on the remedial	the exceedance is identified)		
	5. Increase monitoring frequency to	remedial measures.	measures to be implemented;			
	check mitigation effectiveness.	(The above actions should be	4. Supervise the			
	(The above actions should be taken	taken within 2 working days after	implementation of remedial			
	within 2 working days after the	the exceedance is identified)	measures.			
	exceedance is identified)		(The above actions should be			
			taken within 2 working days			
			after the exceedance is			
			identified)			
Limit Level	1. Inform IEC, ER, Contractor and	1. Discuss amongst ER, ET, and	1. Confirm receipt of	1. Take immediate action to		
being	EPD;	Contractor on the potential	notification of failure in	avoid further exceedance;		
exceeded	2. Repeat measurements to confirm	remedial actions;	writing;	2. Submit proposals for remedial		
	findings;	2. Review Contractor's remedial	2. Notify Contractor;	actions to IEC and ER within 3		
	3. Increase monitoring frequency;	actions whenever necessary to	3. In consolidation with the	working days of notification;		
	4. Identify source and investigate the	assure their effectiveness and	IEC, agree with the	3. Implement the agreed		
	cause of exceedance;	advise the ER accordingly.	Contractor on the remedial	proposals;		

5. Carry out analysis of Contractor's	(The above actions should be	measures to be implemented;	4. Submit further proposal if
working procedures;	taken within 2 working days after	4. Supervise the	problem still not under control;
6. Discuss with the IEC, Contractor	the exceedance is identified)	implementation of remedial	5. Stop the relevant portion of
and ER on remedial measures		measures;	works as instructed by the ER
required;		5. If exceedance continues,	until the exceedance is abated.
7. Assess effectiveness of		consider stopping the	(The above actions should be
Contractor's remedial actions and		Contractor to continue	taken within 2 working days after
keep IEC, EPD and ER informed of		working on that portion of	the exceedance is identified)
the results;		work which causes the	
8. If exceedance stops, cease		exceedance until the	
additional monitoring.		exceedance is abated.	
(The above actions should be taken		(The above actions should be	
within 2 working days after the		taken within 2 working days	
exceedance is identified)		after the exceedance is	
 		identified)	

Event/Action Plan for Landscape and Visual

EVENT			ACTION	
ACTION LEVEL	ET	IEC	ER	CONTRACTOR
Design Check	1. Check final design conforms to the requirements of EP and prepare report.	 Check report. Recommend remedial design if necessary 	1. Undertake remedial design if necessary	
Non-conformity on one occasion	 Identify Source Inform IEC and ER Discuss remedial actions with IEC, ER and Contractor Monitor remedial actions until rectification has been completed 	 Check report Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise ER on effectiveness of proposed remedial measures. Check implementation of remedial measures. 	 Notify Contractor Ensure remedial measures are properly implemented 	 Amend working methods Rectify damage and undertake any necessary replacement
Repeated Non-conformity	1. Identify Source Inform IEC and	1. Check monitoring report	 Notify Contractor Ensure remedial measures are properly 	 Amend working methods Rectify damage and

ER	2. Check Contractor's	implemented	undertake any necessary
2. Increase	working method		replacement
monitoring	3. Discuss with ET and		
frequency	Contractor on possible		
3. Discuss remedial	remedial measures		
actions with IEC,	4. Advise ER on		
ER and Contractor	effectiveness of		
4. Monitor remedial	proposed remedial		
actions until	measures		
rectification has	5. Supervise		
been completed	implementation of		
5. If non-conformity	remedial measures.		
stops, cease			
additional			
monitoring			

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

Appendix K - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

Types of Impacts	Mitigation Measures	Status
	 8 times daily watering of the work site with active dust emitting activities. Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimize cumulative dust impacts. Stockpiling site(s) should be lined with impermeable 	Λ
	 sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting to reduce dust emission. Misting for the dusty material should be carried out 	^
	 before being loaded into the vehicle. Any vehicle with an open load carrying area should have properly fitted side and tail boards. 	^
	 Material having the potential to create dust should not be loaded from a level higher than the side and tail boards and should be dampened and covered by a clean tarpaulin. 	^
	 The tarpaulin should be properly secured and should extent at least 300 mm over the edges of the sides and tailboards. The material should also be dampened if necessary before transportation. 	Λ
Construction Dust	 The vehicles should be restricted to maximum speed of 10 km per hour and confined haulage and delivery vehicle to designated roadways insider the site. On- site unpaved roads should be compacted and kept free of lose materials. 	^
	 Vehicle washing facilities should be provided at every 	*
	 vehicle exit point. The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, 	^
	 bituminous materials or hardcores. Every main haul road should be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet. 	^
	 Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides. 	^
	 Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. 	^

	Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump	۸
Construction	 Good Site Practice: Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. Mobile plant, if any, should be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities. Scheduling of Construction Works during School Examination Period (i) Provision of low noise surfacing in a section of Road L2; and 	^ N/A(1) ^ ^ ^ ^ N/A
Noise		
	(ii) Provision of structural fins	N/A
	 (i) Avoid the sensitive façade of class room facing Road L2 and L4; and 	N/A
	(ii) Provision of low noise surfacing in a section of Road L2& L4	N/A
	 (i) Provision of low noise surfacing in a section of Road L4 before occupation of Site 111; and 	N/A
	(ii) Setback of building about 5m from site boundary.	N/A
	Setback of building about 35m to the northwest direction at 1L3 and 5m at Site 1L2.	N/A
	 avoid any sensitive façades with openable window facing the existing Kowloon City Road network; and 	N/A
	 (ii) for the sensitive facades facing the To Kwa Wan direction, either setback the facades by about 5m to the northeast direction or do not provide the facades with openable window. 	N/A

	(i) avoid any sensitive facades with openable window	N/A
	 (i) avoid any sensitive facades with openable window facing the existing To Kwa Wan Road or (ii) provision of 17.5m high noise tolerant building fronting To Kwa Wan Road and restrict the height of the residential block(s) located at less than 55m 	N/A N/A
	 (i) away from To Kwa Wan Road to no more than 25m above ground. (i) avoid any sensitive facades with openable window facing the slip road connecting Prince Edward Road East and San Po Kong or other alternative mitigation measures and at-source mitigation measures for the surrounding new local roads to minimise the potential traffic noise impacts from the slip road 	N/A
	All the ventilation fans installed in the below will be provided with silencers or acoustics treatment. (i) SPS (ii) ESS (iii) Tunnel Ventilation Shaft (iv) EFTS depot	N/A N/A N/A N/A
	Installation of retractable roof or other equivalent measures	N/A
	The following mitigation measures are proposed to be incorporated in the design of the SPS at KTD, including:	
	 Dual power supply or emergency generator should be provided at all the SPSs to secure electrical power supply; 	N/A
	 Standby pumps should be provided at all SPSs to ensure smooth operation of the SPS during maintenance of the duty pumps; 	N/A
	 An alarm should be installed to signal emergency high 	N/A
Construction Water	 water level in the wet well at all SPSs; and For all unmanned SPSs, a remote monitor system connecting SPSs with the control station through telemetry system should be provided so that swift actions could be taken in case of malfunction of unmanned facilities. 	N/A
Quality	Land-based Construction	
	Construction Runoff	
	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include:	^ ^ ^
	 adequate maintenance of drainage systems to prevent flooding and overflow 	

Construction site should be provided with adequately designed perimeter channel and pre-treatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	Λ
Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	^
Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m ³ capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	٨
Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m ³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	٨
Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.	۸
Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events.	^
Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	۸

All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	*
Drainage	
It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There should be no direct discharge of effluent from the site into the sea.	^
All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	^
All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters of the Victoria Harbour WCZ.	^
Sewage Effluent	
Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets should be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor should also be responsible for waste disposal and maintenance practices.	^
Stormwater Discharges	
Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes	N/A

Debie and Litter	
Debris and Litter	Λ
In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of contract, to ensure that site management is optimised and that disposal of any solid materials. litter or wastes to marine waters does not occur	
Construction Works at or in Close Proximity of Storm Culvert or Seafront	
The proposed works should preferably be carried out within the dry season where the flow in the drainage channel /storm culvert/ nullah is low.	۸
The use of less or smaller construction plants may be specified to reduce the disturbance to the bottom sediment at the drainage channel /storm culvert / nullah.	٨
Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works.	۸
Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.	۸
Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby water receivers.	Λ
Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.	۸
Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts. Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff.	٨
Construction effluent, site run-off and sewage should be properly collected and/or treated.	٨
Any works site inside the storm water courses should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the storm water quality.	۸
Silt curtain may be installed around the construction activities at the seafront to minimize the potential impacts due to accidental spillage of construction materials.	٨
Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea.	۸
K 6	

Supervisory staff should be assigned to station on site to	٨
closely supervise and monitor the works	
Marine water quality monitoring and audit programme shall be implemented for the proposed sediment treatment operation.	^
Good Site Practices It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to. Recommendations for good site practices during construction activities include:	
 Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site 	^
 Training of site personnel in proper waste management and chemical waste handling procedures 	^
 Provision of sufficient waste disposal points and regular collection for disposal 	^
 Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers 	^
 A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) 	^
Waste Reduction Measures Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:	
 Sort C&D waste from demolition of the remaining structures to recover recyclable portions such as metals 	^
 Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal 	^
 Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force 	^
 Any unused chemicals or those with remaining functional capacity should be recycled 	^
 Proper storage and site practices to minimise the potential for damage or contamination of construction materials 	^
K-7	

Construction and Demolition Material Mitigation measures and good site practices should be incorporated into contract document to control potential environmental impact from handling and transportation of C&D material. The mitigation measures include: • Where it is unavoidable to have transient stockplies of C&D material within the Project work site pending collection for disposal, the transient or storm drains as far as possible • Open stockplies of construction materials or construction waters on-site should be covered with tarpaulin or similar fabric • • Skip hoist for material transport should be totally enclosed by impervious sheeting • • Every vehicle should be washing takes place and the section of the road between the washing facilities and the exit form its body and wheels before leaving a construction site should be paved with concrete, bituminous materials or hardcores • • The load of dusty materials carried by vehicle • • • All dusty materials schuld be covered entirely by clean impervious sheeting or ensure dust materials do not leak from the vehicle • • All dusty materials should be covered not materials are foroped should be construction site as to maintain the dusty materials are for poperation so as to maintain the dusty materials are foroped should be construction site as to material to public fill reception from unloading • • Where delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or otherr size as agreed with the Secretary of the Public Fill Committe		
incorporated into contract document to control potential environmental impact from handling and transportation of C&D material. The mitigation measures include: • Where it is unavoidable to have transient stockpiles of CAB material within the Project work site pending collection for disposal, the transient stockpiles should be located away from waterfront or storm drains as far as possible • Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric • Skip hoist for material transport should be totally enclosed by impervious sheeting • Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site • The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be covered entirely by clean impervious sheeting • The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle • All dusty materials should be sprayed with water operation so as to maintain the dusty materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading • The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading • When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or other size as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system for Disposal of Construction and Demoliton Materials' should be included as one of the contractual requirements and implemented by an Environmental Checker should be responsible for audit	Construction and Demolition Material	
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(General) Regulation	solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the CWTF or other licensed facility, in accordance with the Waste Disposal (Chemical Waste)	Λ

	General Refuse	
	General refuse should be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Effective collection and storage methods (including enclosed and covered area) of site wastes would be required to prevent waste materials from being blown around by wind, wastewater discharge by flushing or leaching into the marine environment, or creating odour nuisance or pest and vermin problem	٨
	CM1 All existing trees should be carefully protected during construction.	^
Landscape and Visual	CM2 Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work.	N/A
	CM3 Control of night-time lighting.	^
	CM4 Erection of decorative screen hoarding.	٨

Remarks:	Compliance of mitigation measure;
	X Non-compliance of mitigation measure;
	N/A Not Applicable at this stage;
	N/A(1) Not observed;
	• Non-compliance but rectified by the contractor;
	* Recommendation was made during site audit but improved/rectified by the contractor.

APPENDIX L SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFICATION OF SUCCESSFUL PROSECUTION

Contract No. KL/2012/03 Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area

Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution

Reporting Month: January 2016

Log Ref.	Received Date	Details of Warning / Summons and Successful Prosecutions	Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A

Warnings / Summons and Successful Prosecutions received in the reporting month

Remarks: No warning/summon and prosecution were received in the reporting period.

Complaint Log

EPD Complaint Ref No.	Date of Complaint	Complaint Details	Investigation / Mitigation Action	Status
15-14258	10/6/2015	Complainant said dust emission from the construction work affecting him/her. The stockpiles was not covered properly such that dust emission was observed. Some muddy water was found in To Kwa Wan Typhoon Shelter.	Complaint cases referred to the Contractor. Investigation conducted by the Contract ET. The investigation results showed that no major construction activities were conducted at the time of complaint on the day - 10 th June 2015. Since no marine works or land-based construction activities near the To Kwa Wan Typhoon Shelter were conducted, muddy effluent discharged to the To Kwa Wan Typhoon Shelter is not anticipated. The regular impact air monitoring results in the first three weeks of June 2015 were in full compliance with the Action and Limit levels. No major environmental deficiencies were observed related to the air quality and water quality, and the deficiencies as mentioned in the complaint were not recorded during the site inspections.	Closed

APPENDIX M WASTE GENERATED QUANTITY

APPENDIX IV Monthly Summary Waste Flow Table

(PS Clause 1.86)

Name of Department: CEDD

Contract No. : KL/2012/03

Monthly Summary Waste Flow Table for January 2016 (year) (in tons)

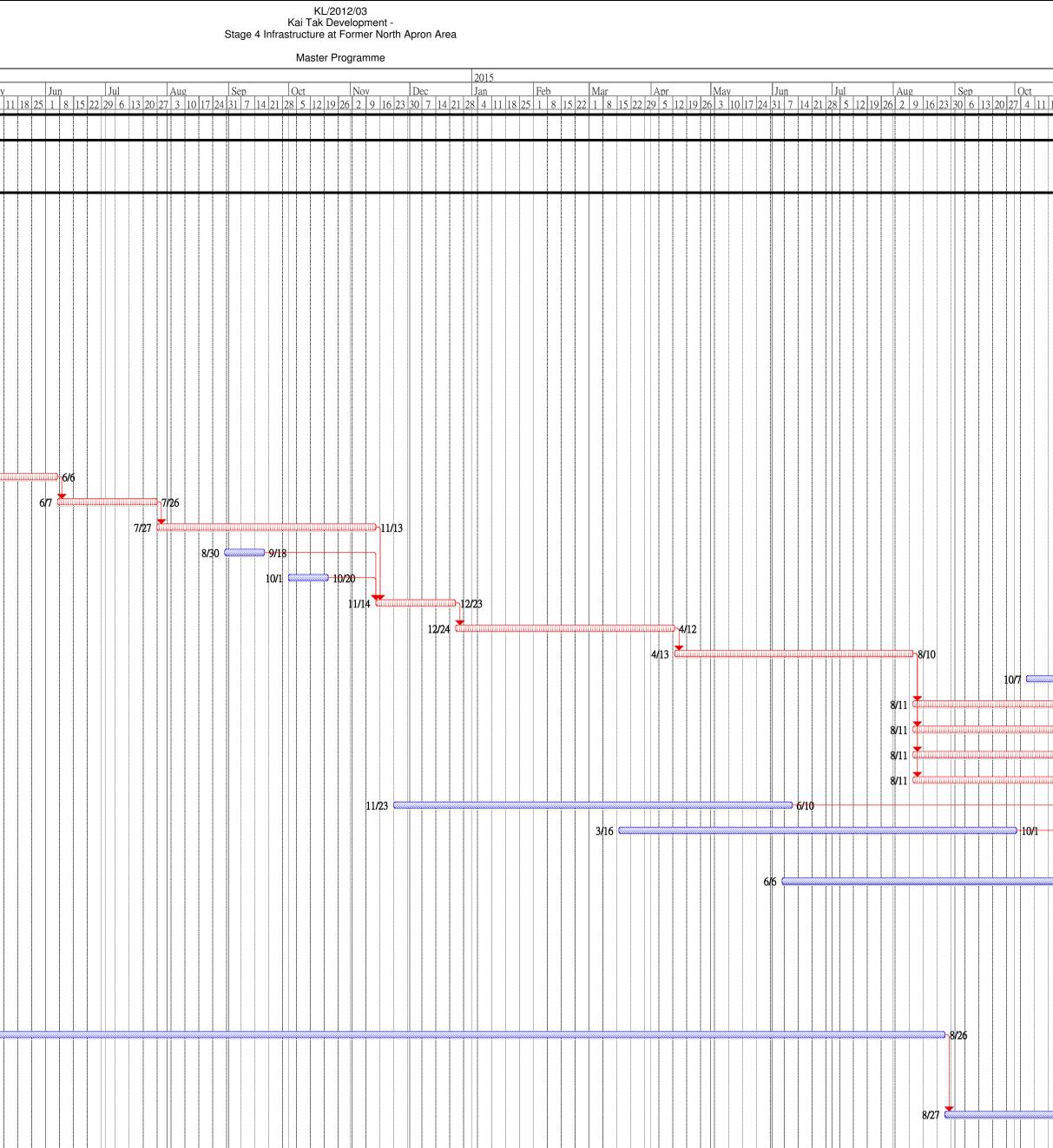
	m . 1		Actual (Quantities of Ind	ert C&D Mater	ials Generated N	Aonthly	Actu	al Quantities o	f C&D Wastes	Generated Mo	nthly
Month	Total Disposal Loads	Total Quantity Generated	Hard Rock & Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemicals Waste	Others, e.g. general refuse
	(No.s)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)
2013 (Oct - Dec) Sub-Total	108	463.69	0	0	0	0	0	0	0	0	0	463.69
2014 (Jan – Dec) Sub-Total	24	16925.7	0	0	16798.93	83.66	1804.27	0	0	0	0	43.11
Jan-15	3	38301.47	0	0	38291.91	0	2064	0	0	0	0	9.56
Feb-15	2	7.8	0	0	0	0	1776	0	0	0	0	7.8
Mar-15	7	21.46	0	0	0	0	2450	0	0	0	0	21.46
Apr-15	26	2041.48	0	0	0	2230.43	2610	0	0	0	0	10.46
May-15	7	647.2	0	0	0	640.58	1550	0	0	0	0	6.62
Jun-15	60	516.9	0	0	0	501.45	0	0	0	0	0	15.45
Jul-15	9	27.74	0	0	0	0	510	0	0	0	0	27.74
Aug-15	12	45.39	0	0	0	0	2410	0	0	0	0	45.39
Sep-15	51	398.77	0	0	0	359.78	1120	0	0	0	0	38.99
Oct-15	54	367.55	0	0	0	323.83	240	0	0	0	0	43.72
Nov-15	24	119.28	0	0	0	81.64	1920	0	0	0	0	37.64
Dec-15	29	39364.93	0	0	0	39319.5	3270	0	0	0	0	45.43
Jan-16	22	119.94	0	0	0	81.77	2930	0	0	0	0	38.15
Total	416	99249.36	0	0	55090.84	43622.64	24654.27	0	0	0	0	855.21

APPENDIX N CONSTRUCTION PROGRAMME

ID I	Name	Duration	Start			Oct	Nov	Dec	2014 Jan	Feb	Mar	Apr	May	Jui	m j	Tul	Aug	Sep	Oct	Nov	Dec	2015 Jan	Feb	Mar	Apr	Ma	ay J	Tun .	Jul	Aug	Sep	Oct	Nov	Dec J	Jan	Feb	Mar Ar	pr May	ıy Jun	1 Jul	Aug	3 Sep	
1 1	nence KL/2012/03 construction	1080 davs	Thu 9/19/13	 Fri 9/2/16		2 29 6 13 20 27	7 3 10 17 2	24 1 8 15 22	2 29 5 12 19	26 2 9.	16 23 2 9 1	6 23 30 6 13	3 20 27 4 1	11 18 25 1	8 15 22 2.	9 6 13 20.	27 3 10 17	24 31 7 14	121 28 5 12	1926 2 9 1	16 23 30 7 1	4 21 28 4 11	18 25 1 8 1.	5 22 1 8 1.	15 22 29 5	5 12 19 26 3	3 10 17 24	31 7 14 21 2	28 5 12 19	26 2 9 16 2.	3 30 6 13 2	0 27 4 11 18 25		29 6 13 20 27	7 3 10 17 2.	24 31 7 14 21		3 10 17 24 1	8 15 22 29 :	5 12 19 26 3	10 17 24 31	7 14 21 28 4	11 18 25
2	Section 1: Works within Portion 1 and 3		Thu 9/19/13	Fri 9/2/16																																							2
3	Site possession and preparation works			Wed 10/2/13																																							
4	Setting out site boundary and site clearance	30 days	Thu 10/3/13	Fri 11/1/13	10/3	13	11/1																																				
5	Initial joint survey		Sun 10/13/13			10/13		12/11																																			
0	Obtain underground utilities plans			Thu 11/28/13				■ 11/28																																			
/	Erect hoarding, chain link fence and vehicular gate		Sun 10/27/13			10/27			12/25																																		
8	Works for Road L6	1037 days	Fri 11/1/13	Fri 9/2/16																																						9/	4
9	Submission / approval of construction materials, method statements and temporary work design for box culverts B5	50 days	Tue 10/22/13	Tue 12/10/13		10/22		12/10																																			
10	Plant mobilization	7 days	Wed 12/11/13	Tue 12/17/13			1	12/11 12/1	17																																		
11	Submission / approval of construction materials and delivery of materials and method statements for stormdrain and sewerage drain	40 days	Fri 11/1/13	Tue 12/10/13		11/1 💈		12/10																																			
12	Install 2x750mm dia sewerage drain from FMH10_345 to FMH10_350 under box culvert B5	60 days	Wed 12/11/13	18/13 Mon 5/26/14 20/14 Sat 6/28/14 26/14 Sun 11/2/14																																							
13	Temporary works for box culverts B5	160 days	Wed 12/18/13	Mon 5/26/14				12/18							5																												
14	Excavation to the formation level for box culverts B5	160 days	Mon 1/20/14	Sat 6/28/14												1/28																											
15	Construct drainage box culverts B5 (total length: 231m)	250 days	Wed 2/26/14	Sun 11/2/14											<u>_</u>]]					11/2																							
16	Submission / approval of construction materials and method statements for watermains	30 days	Sat 2/8/14	Sun 3/9/14						2/8	3/9																																
17	Delivery of FWM and SWM pipes and fittings and valves	60 days	Mon 3/10/14	Thu 5/8/14							3/10		<u> </u>	5/8																													
18	Install 250mm, 300mm 450mm dia.FWM CHD0-CHD394 and 200mm SWM CHC0-CHC394	300 days	Sat 6/14/14	Thu 4/9/15										6/	5/1 <mark>4)</mark>											D-4/9																	
19	Pressure test, swabbing, sterilization and connection	100 days	Tue 4/14/15	Wed 7/22/15																					4/14					7/22													
20	Construct valve, air-valve and wash-out chambers and fire hyrdants for watermain	100 days	Thu 3/26/15	Fri 7/3/15																				3/.	3/26				7/3														
21	Install irrigation system	200 days	Mon 1/26/15	Thu 8/13/15																			/26							8/13													
22	Install different dia. of stormwater drain, sewerage drain and manhole		Sat 6/14/14	Thu 4/9/15										6/1	/14											D-4/9																	
23	Liaison meeting with UU	60 days	Mon 1/27/14	Thu 3/27/14					1/27			3/27																															
24	Installation of utility by the utility undertakers along proposed		Fri 3/28/14								3,	/28											1/21																				
25	footpath Construct u-channel and drainpit at footpath	150 dave	Thu 1/22/15	Sat 6/20/15																		1/22						-6/20															
26	Construct road gully and gully pipe		Fri 4/10/15	Wed 2/3/16																					4/10											2/3							
27	Construct road kerb		Tue 7/14/15																										7/14								3/19						
28	Construct footpath, planting area and concrete run-in		Tue 10/6/15	Fri 4/22/16																												10/5						4/22					
29	Construct flexible carriageway			Tue 5/3/16																																			_{/3}				
30	Constrict stormwater drain and manhole at pedestrian street			Thu 6/19/14							3/12 📖				6/19																												
21															6/01																												
20	Construct u-channel and drainpit at pedestrian street			Sun 9/28/14 Eri 1/9/15											6/21				9/28															•									
32	Install irrigation system at pedestrian street		Thu 10/2/14	Fri 1/9/15															10/2			1/13	1											•									
33	Construct pedestrian street			Sun 6/21/15																		/13 🍒						6/21	Z IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII										5/19				
25	Road marking Plants delivery for landscaping works			Thu 5/19/16 Wed 5/25/16																																							
35	Plants delivery for landscaping works		Tue 4/26/16																																				5/25				
30	Preparatory works for landscaping works			Sat 5/28/16																																		5/1	14) 5/28 5/20 5/28				
37	Hydroseeding		Sun 5/29/16	Thu 6/2/16																																			5/29 5/29 6/				
	Tree and shurb planting		Fri 6/3/16	Sat 7/2/16																																			6/3 🏧	7/	2		
59	Terminal float	62 days	Sun 7/3/16	Fri 9/2/16																																				7/3		S	72

KL/2012/03 Kai Tak Development -Stage 4 Infrastructure at Former North Apron Area

ID	Task Name	Duration	Start	Finish	2014 Sep Oct Nov Dec Jan Feb Mar Apr Ma
1	Commence KL/2012/03 construction	1080 days	Thu 9/19/13	 Fri 9/2/16	Sep Oct Nov Dec Jan Feb Mar Apr Ma 25 1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 2 9 16 23 2 9 16 23 30 6 13 20 27 4
2	Section 1: Works within Portion 1 and 3	1080 days	Thu 9/19/13	Fri 9/2/16	9/19
Z	Scalon 1. Works within Fortion 1 and 3	1000 days	111u <i>3</i> /13/13	111 9/2/10	9/19
2	Construction of Commence Donneiro Station DS2	1000 .1	The 0/10/12	E.: 0/2/16	
3	Construction of Sewerage Pumping Station PS2	1080 days	Thu 9/19/13	Fri 9/2/16	9/19
4	Site possession and preparation works	14 days	Thu 9/19/13	Wed 10/2/13	9/19
5	Site clearance and setting out pumping station	14 days	Thu 10/3/13	Wed 10/16/13	
6	Initial survey	20 days	Wed 10/16/13	Mon 11/4/13	10/16
7	Submission of baseline monitoring for EPD approval	30 days	Thu 10/10/13	Fri 11/8/13	
8	Approval of baseline monitoring by EPD	30 days	Sat 11/9/13	Sun 12/8/13	
9	Submission / approval of method statements and temporary works design	40 days	Fri 10/18/13	Tue 11/26/13	10/18
10	Mobilization of plant and delivery of materials	10 days	Wed 11/27/13	Fri 12/6/13	11/27
11	Construct sheet piling system	50 days	Mon 12/9/13	Mon 1/27/14	
12	Install waling and strut, excavation to the formation level	130 days	Tue 1/28/14	Fri 6/6/14	
13	Construct the base slab	50 days	Sat 6/7/14	Sat 7/26/14	
14	Construct the basement	110 days	Sun 7/27/14	Thu 11/13/14	
15	Install cast-in pipe for intake pipe	20 days	Sat 8/30/14	Thu 9/18/14	
16	Install cast-in pipe for overflow pipe and rising main	20 days	Wed 10/1/14	Mon 10/20/14	
17	Remove sheet piling and backfilling works	40 days	Fri 11/14/14	Tue 12/23/14	
18	Construct upper part wall and column up to beam level	110 days	Wed 12/24/14	Sun 4/12/15	
19	Construct the beam and roof	120 days	Mon 4/13/15	Mon 8/10/15	
20	Construct green roof system	180 days	Wed 10/7/15	Sun 4/3/16	
21	Architectural finishes and erect cladding	200 days	Tue 8/11/15	Fri 2/26/16	
22	Erect handrailing, louvre, door, roller shutter etc.	200 days	Tue 8/11/15	Fri 2/26/16	
23	Install rising main CHA0-CHA100	200 days	Tue 8/11/15	Fri 2/26/16	
24	Construct intake and overflow pipes	200 days	Tue 8/11/15	Fri 2/26/16	
25	Construct sewerage, drainage drain and manholes	200 days	Sun 11/23/14	Wed 6/10/15	
26	Construct u-channel with cover	200 days	Mon 3/16/15	Thu 10/1/15	
27	Construct access road inside PS	95 days	Sat 2/27/16	Tue 5/31/16	
28	Erect fence wall, mini bollard light, vehicular and man access	150 days	Sat 6/6/15	Mon 11/2/15	
29	Plants delivery for landscaping works	30 days	Wed 2/17/16	Thu 3/17/16	
30	Hydroseeding	2 days	Wed 6/1/16	Thu 6/2/16	
31	Tree and shurb planting	30 days	Fri 6/3/16	Sat 7/2/16	
32	Terminal float	62 days	Sun 7/3/16	Fri 9/2/16	
33	Submission / approval of E&M services materials and delivery	650 days	Fri 11/15/13	Wed 8/26/15	11/15
	(Detailed programme will be submitted separately)				
34	E&M building service installation. (Detailed programme will be	250 days	Thu 8/27/15	Mon 5/2/16	
	submitted separately)				



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	-		Fri 9/2/16																																	
2 Section 1: Works within Portion 1 and 3	1080 days	Thu 9/19/13	Fri 9/2/16	9/19																																
3 Site possession and preparation works	14 days	Thu 9/19/13	Wed 10/2/13	9/19 🚥 🕮	J <mark>10/2</mark>																															
4 Setting out site boundary and site clearance	30 days	Thu 10/3/13	Fri 11/1/13	10/3		1/1																														
5 Initial joint survey		Fri 11/1/13			11/1		12/30																													
6 Obtain underground utilities plans			Sun 11/17/13	9/19		11/17																														
7 Erect hoarding, chain link fence and vehicular gate 8 Works for Northbound of Road D2.		Tue 11/5/13 Tue 10/15/13	Fri 1/3/14 Fri 9/2/16		11/5		1/3																													
	100-1 UAYS	10/13/13	• • • <i>714</i> 10		μ μ																															
9 Submission of baseline monitoring for EPD approval	30 days	Mon 10/7/13	Tue 11/5/13	10/7	1 💷 1	11/5																														
10 Approval of baseline monitoring by EPD		Wed 11/6/13			11/6		12/5																													
11 Submission / approval of condition survey and TDMP for work within existing Kai Tak Tunnel	120 days	Tue 10/15/13	Tue 2/11/14		10/15			2	2/11																											
12 Submission / approval of construction materials and method	40 dave	Sun 10/13/13	Thu 11/21/13	10	0/13	11/21																														
statements for rising mains	is anyo	- m 10110110																																		
13 Delivery of materials for rising mains	60 days	Fri 11/22/13	Mon 1/20/14			11/22		1/20 ⊡																												
14 Install 2x500mm dia. HDPE rising main CHA100-CHA441	300 days	Sun 1/5/14	Fri 10/31/14				1/5										10/31																			
15 Construct 750mm dia. concrete pipes CHA716-CHA745 and 450mm dia. concrete pipes	100 days	Sat 11/1/14	Sun 2/8/15														11/1			2/ 8																
16 Construct sewerage manhole, discharge chamber, wash-out	300 davs	Thu 10/30/14	Tue 8/25/15														10/30										<u>≫ 8/25</u>									
chamber, air-valve chamber for rising main	500 u uj5	114 10/20/11																																		
17 Submission / approval of construction materials and method	30 days	Sun 11/3/13	Mon 12/2/13		11/3	 12	2/2																													
statements for watermains																																				
18 Delivery of materials for watermains		Tue 12/3/13	Fri 1/31/14			12/3																														
19 Install 400mm, 450 & 600 dia. FWM CHC250-CHC921 and 450mm dia. SWM CHB250-CHB920	370 days	Tue 2/4/14	Sun 2/8/15					2/4												11111 2/ 8																
20 Pressure test, swabbing, sterilization and connection	100 days	Thu 2/12/15	Fri 5/22/15																	2/12			5/29													
21 Construct valve, fire hydrant, air-valve and wash-out chambers		Wed 11/19/14															11/19					4/17														
for watermain																																				
22 Install irrigation system	-		Mon 5/18/15															12/20					5/18													
23 Submission / approval of construction materials and delivery of materials and method statements for stormdrain and sewerage	60 days	Wed 11/6/13	Sat 1/4/14		11/6 📶		1/4																													
drain																																				
24 Install different dia. of stormwater drain and construct manhole	400 days	Sun 1/5/14	Sun 2/8/15				1/5													2/8																
25 Install different dia. of sewerage drain and construct manhole	400 days	Sun 1/5/14	Sun 2/8/15				1/5													2/ 8																
26 Reconstruct existing box culvert for addition of DWFI 27 Liaison meeting with UIL		Mon 1/26/15 Thu 11/7/13																	1/26				5/2	25												
27 Liaison meeting with UU 28 Installation of utility by the utility undertakers along proposed		Mon 1/6/14					1/5												<u>■12/31</u>																	
footpath	-																																			
29 Construct drainpit and u-channel	200 days	Thu 1/1/15	Sun 7/19/15															1/	4						7	/19										
30 Install traffic signal at the Junction of Road D2/ Slip Road of KCR	100 days	Sat 3/14/15	Sun 6/21/15																		3/14				21											
	100 J	Sun 2/15/15	Man 6/02/15																		0/15															
31 Install traffic signal at the Junction of Road D2/ Road D3	100 days	Sun 3/15/15	ivion 0/22/15																		3/15				/22											
32 Install traffic signal at the Junction of Road D2/ Eastern Access	100 days	Fri 3/13/15	Sat 6/20/15																		3/13			6/2	20											
Road																																				
33 Install traffic signal at the Junction of Road D2/ Western Access Road	100 days	Sat 3/14/15	Sun 6/21/15																		3/14			6/2	21											
34 Construct road gully and gully pipe		Sat 2/14/15																		2/14										12/10						
35 Construct road kerb 36 Construct footpath, planting area and concrete run-in		Thu 7/9/15 Mon 8/3/15																								8/3						2/18				
37 Construct central divider		Mon 9/7/15																									9/7						3/24			
38 Construct flexible carriageway	200 days	Wed 10/7/15	Sat 4/23/16																									10/7					4/2 3			
39 Road marking			Fri 5/13/16																														4/24			
40 Plants delivery for landscaping works		Thu 4/14/16																															4/14			
41 Preparatory works for landscaping works 42 Hydroseeding		Sat 5/14/16 Sat 5/28/16																																/14 5/27 5/28 6/2		
42 Hydroseeding 43 Tree and shurb planting																																		6/3	7/2	
44 Terminal float		Sun 7/3/16																																	7/3	
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Critical tasks Working days

Commencement Date: 19 September 2013 Completion Date: 2 September 2016

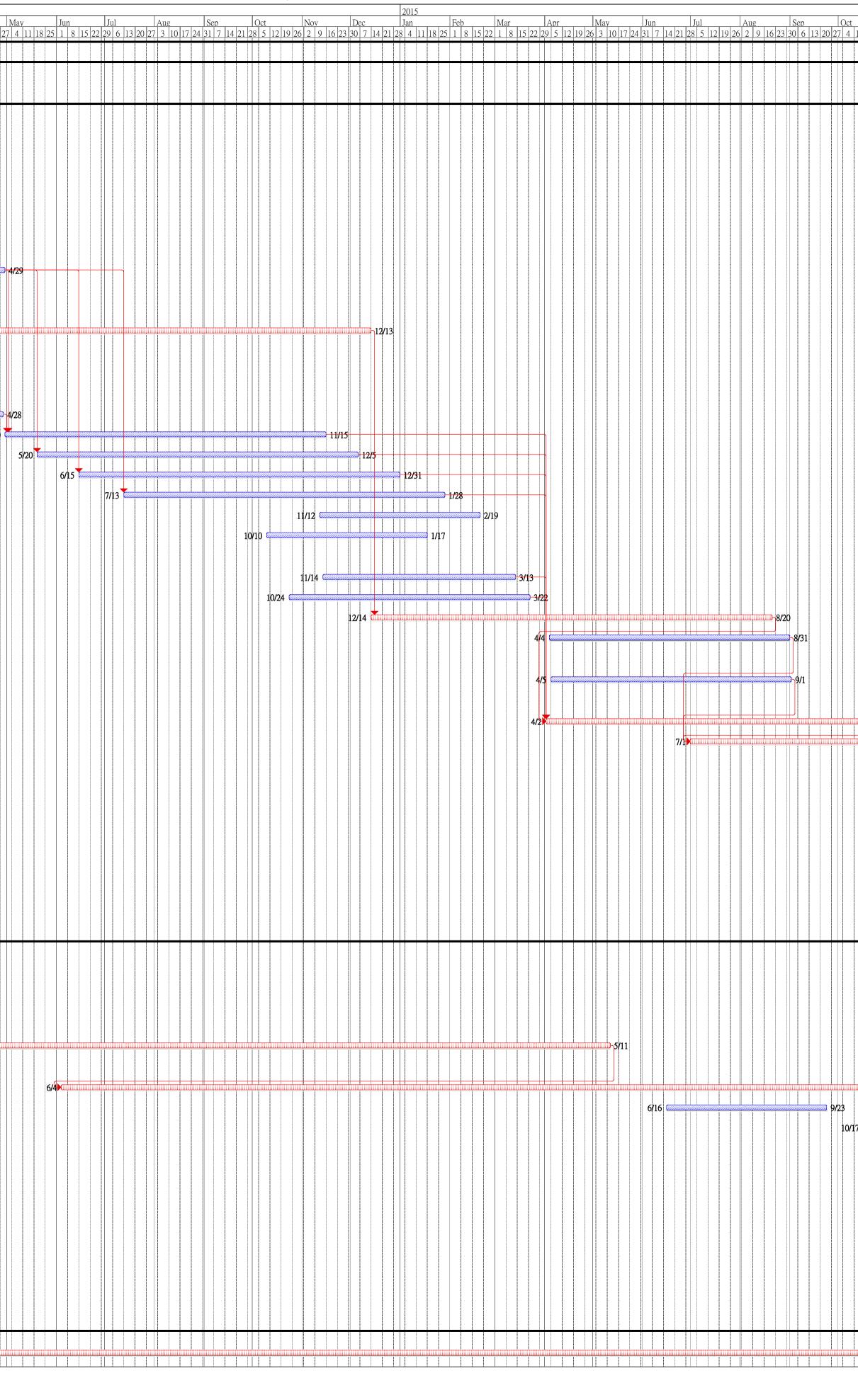
KL/2012/03 Kai Tak Development -Stage 4 Infrastructure at Former North Apron Area

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ID	Task Name	Duration	Start	Finish	Sep 1 18 25 1 8	15 22	Oct	20 27	Nov	I7 24 1)ec	2014 Jan		Feb	16 22	Mar	16 2	Ar	or 6 12		- \ T
1	Commence KL/2012/03 construction	1445 days	Thu 9/19/13	Sat 9/2/17	1 10 23 1 0	13 22	29 0 13	20 27	5 10	17 24 1	0 13 22	29 3	12 19 2) 2 9	10 23	29	10 2.	5 50	0 15	20 27	
2	Section 1: Works within Portion 1 and 3	1080 days	Thu 9/19/13	Fri 9/2/16	9/19	-															
3	Widening of Existing Footpaths at Sung Wong Toi Road and	1080 days	Thu 9/19/13	Fri 9/2/16	9/19																······ e ·····
	To Kwa Wan Road																				
4	Site possession and preparation works	21 days	Thu 9/19/13	Wed 10/9/13	9/19		 10/s)													
5	Setting out site boundary and site clearance	30 days	Thu 10/10/13	Fri 11/8/13		10	0/10			/8											
6	Initial joint survey Obtain underground utilities plans	25 days 60 days	Tue 11/12/13 Thu 9/19/13	Fri 12/6/13 Sun 11/17/13	9/19			11	1/12 🖾	11/17	12/6										
8	Erect hoarding, chain link fence and vehicular gate	60 days	Thu 12/5/13	Sun 2/2/14	5/13					12/5				2/2							
9	Apply XP for roadworks	210 days	Wed 10/2/13	Tue 4/29/14		10/2															4
10	Approval of TTA drawings	90 days	Mon 11/18/13	Sat 2/15/14					11/ <mark>1</mark> 8						2/15						
11	Liaison meeting with UU	60 days	Sat 11/9/13	Tue 1/7/14				11/	19 🊈				1/7								
12	Installation of utility by the utility undertakers along proposed footpath, XP to be applied by UU	340 days	Wed 1/8/14	Sat 12/13/14								1/8 ₫									
13	Submission / approval of construction materials and method	30 days	Wed 1/29/14	Thu 2/27/14									1/29			2/27					
	statements for watermains	Jo auyo											1167								
14	Delivery of materials for watermains	60 days	Fri 2/28/14	Mon 4/28/14											2/28						H
15	Install 300mm dia. fresh water main CHA0-CHA283	200 days	Wed 4/30/14	Sat 11/15/14															4	/30 👗	
16	Install 300mm dia. fresh water main CHB0-CHB555	200 days	Tue 5/20/14	Fri 12/5/14																	
17	Install 450mm dia. salt water main CHA0-CHA555	200 days	Sun 6/15/14	Wed 12/31/14																	
18 19	Install 800mm dia. salt water main CHD0-CHD52 Pressure test, swabbing, sterilization and connection	200 days	Sun 7/13/14 Wed 11/12/14	Wed 1/28/15 Thu 2/19/15																	
20	Construct valve, fire hydrant, air-valve and wash-out chambers	100 days	Fri 10/10/14	Sat 1/17/15																	
	for watermain																				
21	Install irrigation system	120 days	Fri 11/14/14	Fri 3/13/15																	
22	Construct u-channel, drainpit and stormwater drain	150 days	Fri 10/24/14	Sun 3/22/15																	
23	Construct road gully and gully pipe	250 days	Sun 12/14/14	Thu 8/20/15																	
24	Application and install traffic signal at the Junction of Sung Wong Toi Road / To Kwa Wan Road	150 days	Sat 4/4/15	Mon 8/31/15																	
25	Application and install traffic signal at the Junction along Sung	150 days	Sun 4/5/15	Tue 9/1/15																	
25	Wong Toi Road	150 days	5un 4/3/13	140 9/1/15																	
26	Construct road kerb and new footpath	240 days	Thu 4/2/15	Fri 11/27/15																	
27	Construct carriageway at the existing footpath	270 days	Wed 7/1/15	Sat 3/26/16																	
28	Erect traffic sign	100 days	Sun 1/17/16	Mon 4/25/16																	
29	Re-surface existing carriageway	60 days	Sun 3/27/16	Wed 5/25/16																	
30	Road marking Plants delivery for landscaping works	10 days 30 days	Wed 5/4/16 Mon 4/25/16	Fri 5/13/16 Tue 5/24/16																	
31	Preparatory works for landscaping works	14 days	Thu 5/26/16	Wed 6/8/16																	
33	Hydroseeding	4 days	Thu 6/9/16	Sun 6/12/16																	
34	Tree and shurb planting	20 days	Mon 6/13/16	Sat 7/2/16																	
35	Terminal float	62 days	Sun 7/3/16	Fri 9/2/16																	
36	Construction of Por Culturate DC	070 1	Mon 9/30/13	Fri 6/3/16		0.000															
37	Construction of Box Culverts B6 Site possession and preparation works	978 days 15 days	Mon 9/30/13 Mon 9/30/13	Mon 10/14/13		9/30 9/30		0/14													
39	Submission / approval of construction materials and method	60 days	Tue 10/15/13	Fri 12/13/13		2,50	10/15				12/13										
	statements for box culverts B6																				
40	Plant mobilization	14 days	Sat 12/14/13	Fri 12/27/13						12	/14	12/27									
41	Construct temporary works and excavation to the formation level for box culverts B6	500 days	Sat 12/28/13	Mon 5/11/15							12/28										
40	Construct during on her sub-site D1	E00 2	111- 1 61414	E- 104747																	
42	Construct drainage box culverts B6 Precast box culvert preparation works	500 days 100 days	Wed 6/4/14 Tue 6/16/15	Fri 10/16/15 Wed 9/23/15																	
44	Modification of seawall	100 days	Sat 10/17/15	Sun 1/24/16																	
45	Soil backfilling works	160 days	Mon 1/25/16	Sat 7/2/16																	
46	Terminal float	62 days	Sun 7/3/16	Fri 9/2/16																	
47																					
48	Demolition of Kowloon East DWFI pumping station	120 days	Sun 2/28/16	Sun 6/26/16																	
49	Submission / approval of method statements	60 days	Tue 12/22/15	Fri 2/19/16																	
50	Demolish Kowloon East DWFI pumping station (To be carried	120 days	Sun 2/28/16	Sun 6/26/16																	
	out after completion of NPS)																				
51																					
52	Section 1A	1445 days	Thu 9/19/13	Sat 9/2/17	9/19	-															
53	Establishment works for Section 1	1445 days	Thu 9/19/13	Sat 9/2/17	9/19																1

Critical tasks Working days

Commencement Date: 19 September 2013 Completion Date: 2 September 2016





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ID Task Name	Duration	Start		Jul Aug	Sep (Oct N	lov De	c Ia	n Feb	Mar	Apr	May	Jun Jul	Aug	Sep	Oct	Nov	Dec	2015 Jan	Feb I	Mar Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	2016 Dec Jan	Feb	Mar	Apr	May	Jun Ju	<u>_l</u>
1 Commence KL/2012/03 construction	1325 days	Thu 9/19/13	16 23 30	0 7 14 21 28 4 11 18 2	25 1 8 15 22 29	9 6 13 20 27	3 10 17 24 1	8 15 22 29	5 12 19 26 2 9 1	6 23 2 9 16 23 3	0 6 13 20 27	7 4 11 18 25	1 8 15 22 29 6	13 20 27 3	10 17 24 31 7	14 21 28 5 12 19 2	26 2 9 16 23	3 30 7 14 21 28	8 4 11 18 25	5 1 8 15 22	1 8 15 22 29 5	12 19 26 3	10 17 24 31	7 14 21 28 5 1	2 19 26 2 9 16 2	3 30 6 13 20	0 27 4 11 18 25	5 1 8 15 2	22 29 6 13 20 27 3	10 17 24 31 7	14 21 28 6 1	3 20 27 3 10 17 2	4 1 8 15 22	29 5 12 19 26 3	10 17
2 Section 2: Works within Portion 1 and 4	960 days	Thu 9/19/13	Thu 5/5/16		9/19																												 5 <i>1</i> 5		
3 Setting out site boundary 4 Obtain underground utilities plans		Thu 9/19/13 Thu 9/19/13			9/19																														
5 Site clearance		Sat 10/19/13				10/18	511/17																												
6 Initial survey		Mon 11/18/13					.1/18	2/1																											
7 Erect hoarding, chain link fence and vehicular gate	30 days	Mon 12/2/13	Tue 12/31/13						2/31																										
8 Installation of rising main along To Kwa Wan Road	899 days	Thu 9/19/13	Sat 3/5/16		9/19																										3/5	5			
9 Application of XP and TTA for approval		Sat 10/19/13				10/19					4/16																								
10 Submission / approval of method statement, temporary works design and delivery of materials to site	100 days	Sat 12/28/13	Sun 4/6/14					12/28			◎ 4/6																								
11 Increation with familiation the allowment of vising mains	60 dour	Thu 4/17/14	Sum 6/15/14								4/17		chr.																						
11 Inspection pits for determining the alignment of rising mains	ou days	1 nu 4/1 //14	Sun 0/15/14								4/17		6/15																						
12 Allow for utilities diversion works by the UU	60 days	Mon 6/16/14	Thu 8/14/14										6/16		₩ 8/14																				
13 Construct jacking pits at different locations (Locations will be		Sun 6/29/14											6/29									4/24													
subject to TMLG requirements. Detailed programme will be submitted after approval of TTA)																																			
14 Install 2x630mm HDPE rising main CHB0-CHB1050 (Alignment will be subject to TMLG requirements. Detailed	500 days	Mon 9/1/14	Wed 1/13/16												9/1															□ <mark>□</mark> 1/13					
(Alignment will be subject to TMLG requirements. Detailed programme will be submitted after approval of TTA)																																			
15 Construct sewerage manhole, discharge chamber, wash-out chamber, air-valve chamber for rising main	300 days	Mon 5/11/15	Sat 3/5/16																			5/11									3/5				
16 Terminal float	61 days	Sun 3/6/16	Thu 5/5/16																												216				
10 17	01 days	Sull 5/0/10																													3/0				
18 Construction of Road L19	899 days	Thu 9/19/13	Sat 3/5/16		9/19																										3/5				
19 Application of XP and TTA for approval	210 days	Thu 9/19/13	Wed 4/16/14		9/19						4/16																								
20 Submission / approval of construction materials and method statements for rising mains	30 days	Wed 10/16/13	Thu 11/14/13		1	10/16	11/14																												
statements for fishing mains																																			
21 Delivery of materials for rising mains		Fri 11/15/13				11	/15		1/13																										
22 Install 2x630mm HDPE rising main CHB1089-CHB1159	170 days	Tue 1/14/14	Wed 7/2/14					1/	14				7/2 	2																					
23 Install 2x750mm dia. concrete pipes CHB1159-CHB1300	170 days	Tue 1/14/14	Wed 7/2/14					1/	14				7/2	,																					
	170 days	140 1/1 //1						11																											
24 Install 600mm and 750 dia. stormwater drain	200 days	Thu 7/3/14	Sun 1/18/15										7/3						1/18		h														
25 Install 300mm dia. sewerage drain	200 days	Thu 7/3/14	Sun 1/18/15										7/3						1/18																
26 Install 200mm dia. fresh water main CHE0-CHE402	200 days	Thu 7/3/14	Sun 1/18/15										7/3						1/18																
27 Install NS125 & NS63 salt water main CHE0-CHE100		Thu 7/3/14											7/3						1/18																
28 Pressure test, swabbing, sterilization and connection		Mon 3/9/15 Thu 12/18/14																			/9			6/16											
29 Construct sewerage manhole, discharge chamber, wash-out chamber, air-valve chamber for rising main	160 days	Inu 12/18/14	Tue 5/20/15															12/18					5/26												
30 Install 2x630mm HDPE rising main CHB1050-CHB1089 by	200 days	Thu 4/17/14	Sun 11/2/14								4/17						<mark></mark>																		
trenchless method	<i>j</i>																11/2																		
31 Install 2x750mm and 2x900mm dia. concrete pipes	150 days	Mon 11/3/14	Wed 4/1/15													11/	3				4/1														
CHB1300-CHB1398																																			
32 Liaison meeting with UU	30 days	Sat 12/7/13	Sun 1/5/14				12/7		1/5																										
33 Installation of utility by the utility undertakers along proposed footpath	200 days	Mon 1/6/14	Thu 7/24/14					1/6						7/24																					
34 Utilities diversion works by the UU 35 Construct road gully and gully pipe		Fri 7/25/14 Thu 4/2/15												7/25					12/31		4/2					0 /0									
35 Construct road guily and guily pipe 36 Construct road kerb		Wed 6/10/15																					6/16												
37 Construct footpath, planting area and concrete run-in		Sat 7/25/15																						7	125				12/11						
38 Construct central refuge	100 days	Tue 7/28/15	Wed 11/4/15																						7/28			11/4							
39 Construct flexible carriageway		Thu 11/5/15																										./5		2/2					
40 Road marking		Mon 2/1/16																												2/1					
41 Relocate existing directional sign 42 Planta dolivory for landacoping works		Thu 10/29/15	Fri 2/5/16																								10/29 (2/5					
42 Plants delivery for landscaping works 43 Preparatory works for landscaping works	30 days 14 days		Tue 2/2/16 Tue 2/16/16																										1/4	2/2					
43 Freparatory works for fandscaping works 44 Hydroseeding		Wed 2/3/16 Wed 2/17/16																													2/10 2/18				
45 Tree and shurb planting	16 days		Sat 3/5/16																												9 3 /5				
46 Terminal float	61 days	Sun 3/6/16	Thu 5/5/16																												3/6		5 /5		
47																																			
		Thu 9/19/13	Fri 5/5/17		9/19																														
49 Establishment works for Section 2	1325 days	Thu 9/19/13	Fri 5/5/17		9/19																														

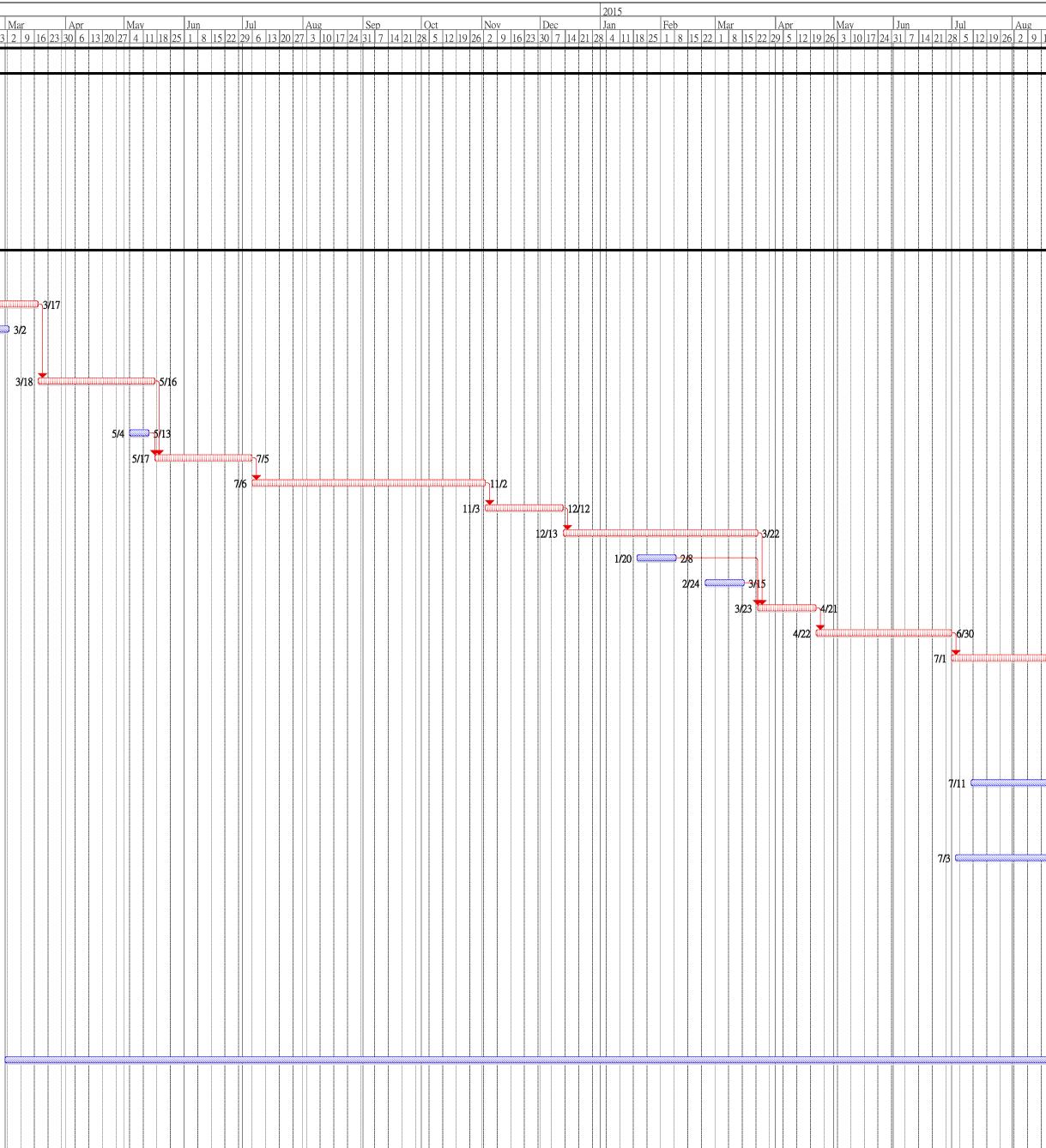
Critical tasks Working days

Commencement Date: 19 September 2013 Completion Date: 5 May 2016

KL/2012/03 Kai Tak Development -Stage 4 Infrastructure at Former North Apron Area

ID	Task Name	Duration	Start	Finish
U.			Start	
1	Commence KL/2012/03 construction	960 days	Thu 9/19/13	Thu 5/5/16
2	Section 2: Works within Portion 1 and 4	960 days	Thu 9/19/13	Thu 5/5/16
3	Setting out site boundary	30 days	Thu 9/19/13	Fri 10/18/13
4	Obtain underground utilities plans	30 days	Thu 9/19/13	Fri 10/18/13
5	Site clearance	30 days	Sat 10/19/13	Sun 11/17/13
6	Initial survey	14 days	Mon 11/18/13	Sun 12/1/13
7	Erect hoarding, chain link fence and vehicular gate	60 days	Mon 12/2/13	Thu 1/30/14
8	Construction of sewrage pumping station NPS	960 days	Thu 9/19/13	Thu 5/5/16
9	Site Possession	180 days	Thu 9/19/13	Mon 3/17/14
10	Submission / approval of method statements and temporary	165 days	Thu 9/19/13	Sun 3/2/14
	work design			
11	Demolition work of ex-EMSD Sung Wong Toi vehicle repair	60 days	Tue 3/18/14	Fri 5/16/14
	and maintenance workshop by others	Jo aujo		
12	Mobilization	10 days	Sun 5/4/14	Tue 5/13/14
12	Construct sheet piling system	50 days	Sat 5/17/14	Sat 7/5/14
15	Install waling and strut, excavation to the formation level	120 days	Sun 7/6/14	Sun 11/2/14
14	Construct the base slab	40 days	Mon 11/3/14	Fri 12/12/14
15	Construct the basement	100 days	Sat 12/13/14	Sun 3/22/15
17	Install cast-in pipe for intake pipe	20 days	Tue 1/20/15	Sun 2/8/15
18	Install cast-in pipe for overflow pipe and rising main	20 days	Tue 2/24/15	Sun 3/15/15
19	Remove sheet piling and backfilling works	30 days	Mon 3/23/15	Tue 4/21/15
20	Construct upper part wall and column up to roof level	70 days	Wed 4/22/15	Tue 6/30/15
21	Construct the beam and roof	80 days	Wed 7/1/15	Fri 9/18/15
22	Establishment of green roof system	100 days	Fri 12/4/15	Sat 3/12/16
23	Architectural finishes and erect granite tile	130 days	Sat 9/19/15	Tue 1/26/16
24	Erect handrailing, louvre, door, roller shutter etc.	130 days	Sat 9/19/15	Tue 1/26/16
25	Install rising main	60 days	Sat 9/19/15	Tue 11/17/15
26	Construct inlet and overflow pipes	60 days	Sat 7/11/15	Tue 9/8/15
27	Construct sewerage, drainage drain and manhole	70 days	Wed 11/18/15	Tue 1/26/16
28	Construct assess road	30 days	Thu 1/28/16	Fri 2/26/16
29	Construct u-channel with cover	60 days	Fri 7/3/15	Mon 8/31/15
30	Erect fence wall, vehicular and man access and mini bollard light	100 days	Fri 9/18/15	Sat 12/26/15
31	Plants delivery for landscaping works	30 days	Wed 1/20/16	Thu 2/18/16
32	Preparatory works for landscaping works	7 days	Sat 2/27/16	Fri 3/4/16
33	Hydroseeding	1 day	Sat 3/5/16	Sat 3/5/16
34	Tree and shurb planting	20 days	Sun 3/6/16	Fri 3/25/16
35	Terminal float	41 days	Sat 3/26/16	Thu 5/5/16
36	Submission / approval of E&M services materials and delivery (Detailed programme will be submitted separately)	570 days	Sat 3/1/14	Mon 9/21/15
37	E&M building service installation. (Details programme will be submitted separately)	180 days	Tue 9/22/15	Sat 3/19/16



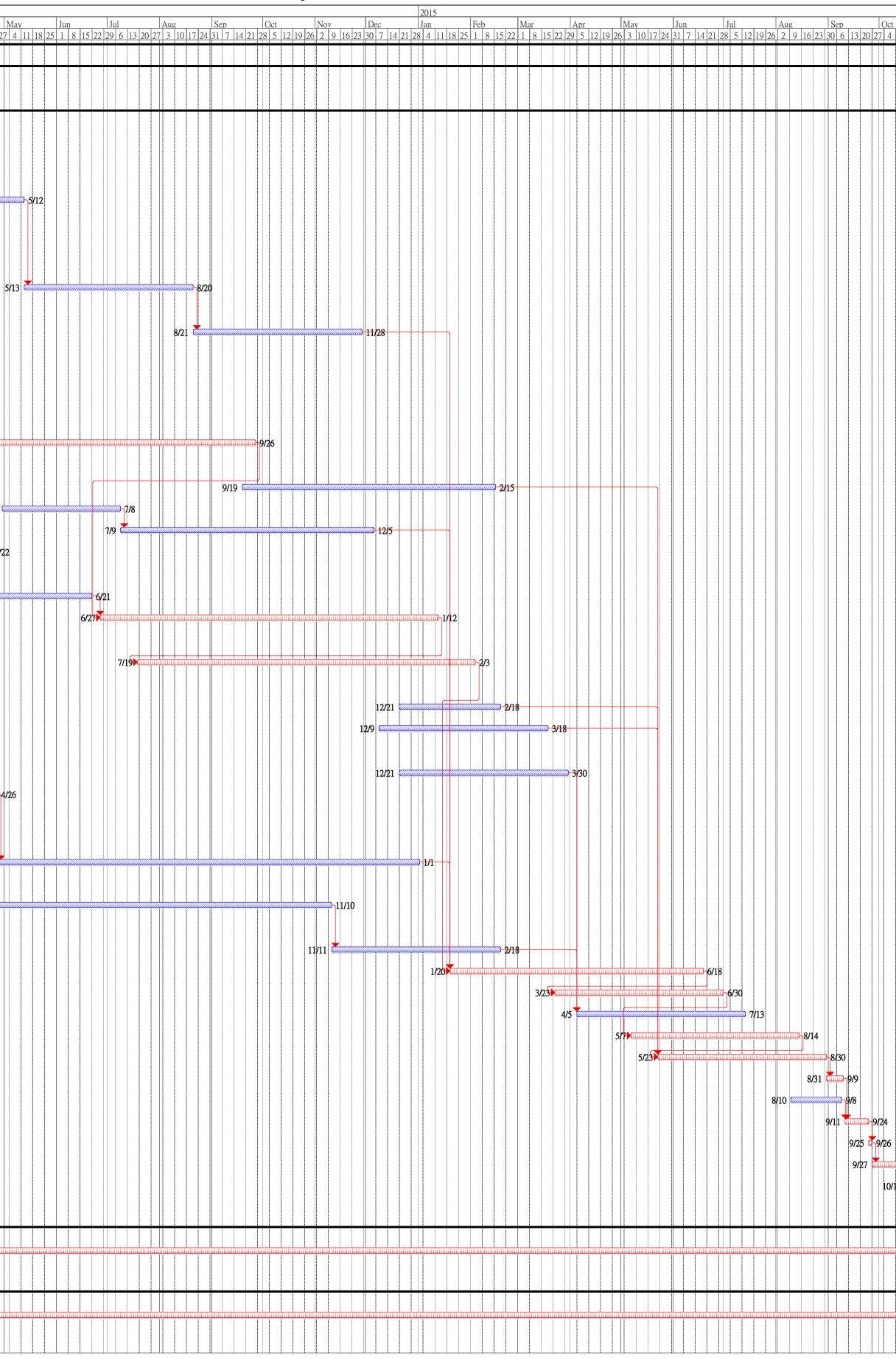


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ID	Task Name	Duration	Start	Finish									2014											
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1	Commence KL/2012/03 construction	1173 days	Thu 9/19/13	Sun 12/4/16			29 0 13 20		10 1	1 24	1 0	13 22 1	29 5	12 1	9 20	2 9			. 7	10 23	30	0 1.	5 20	27 4
2	Section 3: Works within Portion 1.	808 days	Thu 9/19/13	Sat 12/5/15	9/19	~																		
3	Works for Part of Road D2.	808 days	Thu 9/19/13	Sat 12/5/15	9/19	~																		
4	Site possession and preparation works	15 days	Thu 9/19/13	Thu 10/3/13	9/19	a	<mark>□</mark>]10/3																	
5	Site clearance and setting out site boundary	20 days	Fri 10/4/13	Wed 10/23/13		10/	4	10/23																
6	Apply XP for roadworks at junction of SWTR and TKWR and TTA approval	210 days	Tue 10/15/13	Mon 5/12/14			10/15																	
7	Submission of baseline monitoring for EPD approval	30 days	Mon 10/7/13	Tue 11/5/13		10)/7		11/5															
8	Approval of baseline monitoring by EPD	30 days	Wed 11/6/13	Thu 12/5/13				11/6 🟅			<mark>∞ 12</mark>	5												
9	Install 400mm dia. fresh water main CHC0-CHC30	100 days	Tue 5/13/14	Wed 8/20/14																				5/1
10	Install 300 and 450mm dia. salt water main CHB0-CHB30	100 days	Thu 8/21/14	Fri 11/28/14																				
11	Submission / approval of construction materials and method statements for rising mains	40 days	Sat 10/12/13	Wed 11/20/13			10/12			11/2	0													
12	Delivery of materials for rising mains	60 days	Thu 11/21/13	Sun 1/19/14				1	11/21	*					1/19									
13	Construct 750mm dia. concrete pipes CHA450-CHA630	250 days	Mon 1/20/14	Fri 9/26/14									1/	20 🛍										
14	Construct sewerage manhole for rising main	150 days	Fri 9/19/14	Sun 2/15/15																				
15	Construct jacking pits	70 days	Wed 4/30/14	Tue 7/8/14																			4/30	
16	Install 2x750mm dia. rising main CHA636-CHA716	150 days	Wed 7/9/14	Fri 12/5/14																				
17	Submission / approval of construction materials and method statements for watermains	30 days	Mon 3/24/14	Tue 4/22/14															3/2	24 🖾			<u></u> 4	/22
18	Delivery of materials for watermains	60 days	Wed 4/23/14	Sat 6/21/14																		4/2	:3 👗	
19	Install 400mm dia. fresh water main CHC30-CHC250	200 days	Fri 6/27/14	Mon 1/12/15																				
20	Install 300 and 450mm dia. salt water main CHB30-CHB250	200 days	Sat 7/19/14	Tue 2/3/15																				
21	Pressure test, swabbing, sterilization and connection	60 days	Sun 12/21/14	Wed 2/18/15																				
22	Construct valve, air-valve and wash-out chambers for watermain	100 days	Tue 12/9/14	Wed 3/18/15																				
23	Install irrigation system Submission / approval of construction materials and delivery of	100 days 40 days	Sun 12/21/14 Tue 3/18/14	Mon 3/30/15 Sat 4/26/14															2/10					100
24	materials and method statements for stormdrain drain	40 uays	100 5/16/14	Sat 4/20/14															3/18					4/26
25	Install stormwater drain and manhole	250 days	Sun 4/27/14	Thu 1/1/15																		4	/27	
26	Liaison meeting with UU	30 days	Thu 10/17/13	Fri 11/15/13			10/17		1	1/15														
27	Installation of utility by the utility undertakers along proposed footpath and CLP tunnel	360 days	Sat 11/16/13	Mon 11/10/14				11/	/16 📥															
28	Construct drainpit and u-channel	100 days	Tue 11/11/14	Wed 2/18/15																				
29	Construct road gully and gully pipe	150 days	Tue 1/20/15	Thu 6/18/15																				
30	Construct road kerb	100 days	Mon 3/23/15 Sun 4/5/15	Tue 6/30/15 Mon 7/13/15																				
31	Construct footpath, planting area and concrete run-in Construct central divider	100 days 100 days	Thu 5/7/15	Fri 8/14/15																				
33	Construct flexible carriageway	100 days	Sat 5/23/15	Sun 8/30/15																				
34	Road marking	10 days	Mon 8/31/15	Wed 9/9/15																				
35	Plants delivery for landscaping works	30 days	Mon 8/10/15	Tue 9/8/15																				
36	Preparatory works for landscaping works	14 days	Fri 9/11/15	Thu 9/24/15																				
37	Hydroseeding	2 days	Fri 9/25/15	Sat 9/26/15																				
38	Tree and shurb planting	20 days	Sun 9/27/15	Fri 10/16/15																				
39 40	Terminal float	50 days	Sat 10/17/15	Sat 12/5/15																				
41	Section 3A	1173 days	Thu 9/19/13	Sun 12/4/16	9/19	-																		+
42	Establishment works for Section 3	1173 days	Thu 9/19/13	Sun 12/4/16	9/19																			
43																								
44	Section 4	1080 days	Thu 9/19/13	Fri 9/2/16	9/19																			
45	Perservation and preotection of trees within Portions 1 to 4	1080 days	Thu 9/19/13	Fri 9/2/16	9/19																			

Commencement Date: 19 September 2013 Completion Date: 5 December 2015

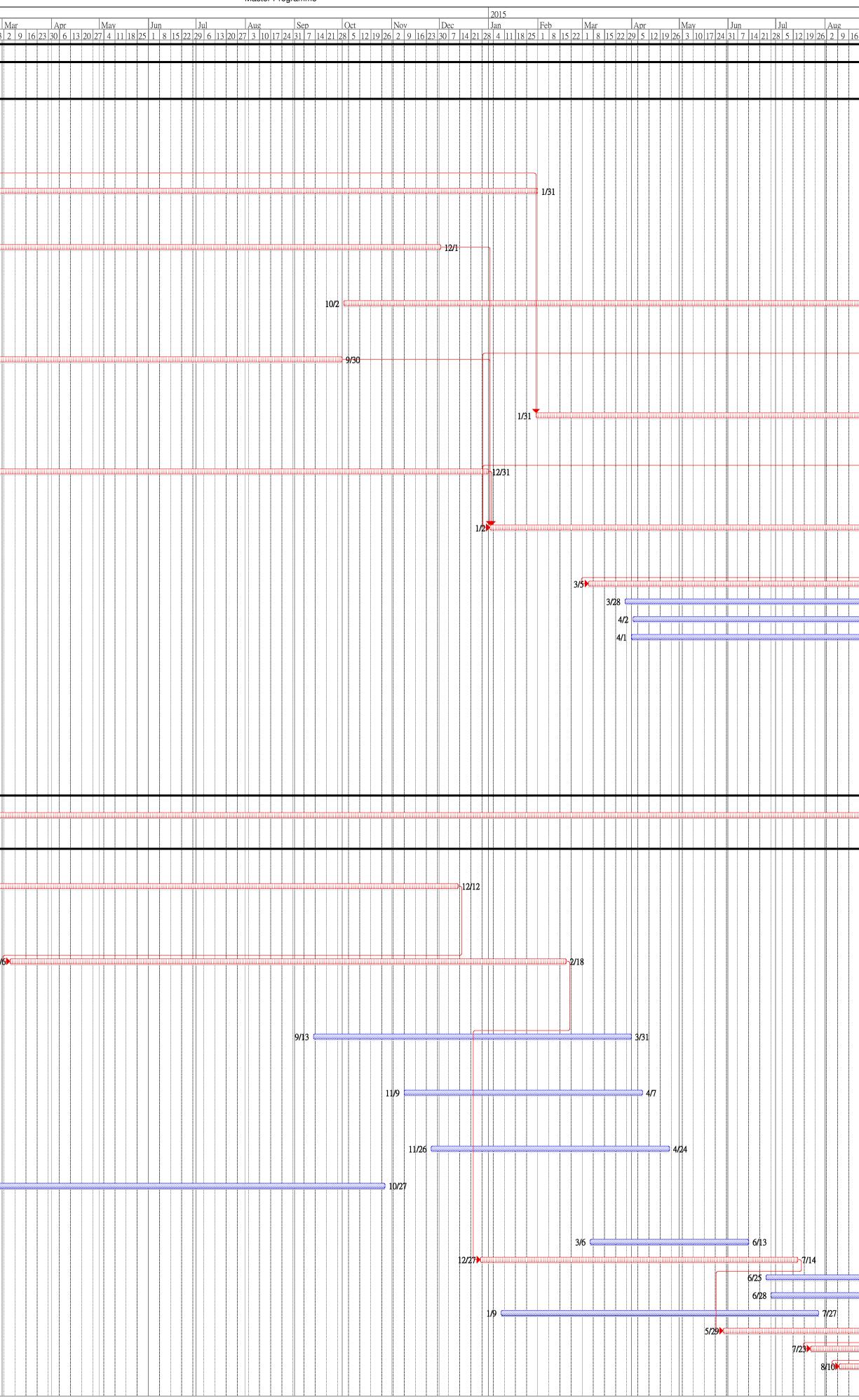




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1 C	ommence KL/2012/03 construction	1345 days	Thu 9/19/13	Thu 5/25/17	0 23 30 7 14 21	20 4	111 10 2	.5 1 0	<u>-15</u> 22	. 27 0	15 20			1 24		5 15			217	20 2		.012.	Ť
2	Section 5: Portion 1 (Subject to Excision).	980 days	Thu 9/19/13	Wed 5/25/16				9/19) 													—	+
3	Works for Part of Road D2 (Footpath only)	980 days	Thu 9/19/13	Wed 5/25/16				9/19	,									<u> </u>					
4	Site possession and preparation works	15 days	Mon 9/30/13	Mon 10/14/13				9/19		(₽_10/1	4											
5	Awaiting for the notification of commencement of works by the	100 days	Mon 9/30/13	Tue 1/7/14					9/30									 1/	7				
	Engineer																						
6	Interface works meeting with CLP	30 days	Tue 10/15/13	Wed 11/13/13						10/15	5 📥		<mark>⊡_11</mark>	./13				\downarrow					
7	Construct of CLP tunnel by CLP CH67 to CH250 (Exact duration will be agreed with CLP)	444 days	Thu 11/14/13	Sat 1/31/15								11/1	بال ر	щин					щщ			шш	
	duration will be agreed with CLP)																						
8	Construct of CLP tunnel by CLP CH527 to CH585 (Exact duration will be agreed with CLP)	383 days	Thu 11/14/13	Mon 12/1/14								11/1	••										Ħ
9	Construct of CLP tunnel by CLP CH385 to CH527(Exact	395 days	Thu 10/2/14	Sat 10/31/15																			
9	duration will be agreed with CLP)	555 days	111u 10/2/14	Sat 10/51/15																			
10	Construct of CLP tunnel by CLP CH250 to CH385 (Exact	321 days	Thu 11/14/13	Tue 9/30/14								11/1	4 📥					mmr				шш	m
	duration will be agreed with CLP)																						
11	Construct of CLP tunnel by CLP CH0 to CH67 Exact duration	275 days	Sat 1/31/15	Sun 11/1/15																			
	will be agreed with CLP)																						
12	Construct of CLP tunnel by CLP CH585 to CH724 (Exact duration will be agreed with CLP)	365 days	Wed 1/1/14	Wed 12/31/14													1/1						
10	Installation of utilize the difference of the	250 1	T · · · · · · ·	The 10/10/17																			
13	Installation of utility by the utility undertakers along proposed footpath (Exact duration will be agreed with UU)	350 days	Fri 1/2/15	Thu 12/17/15																			
14	Construct drainpit and u-channel	340 days	Thu 3/5/15	Sun 2/7/16																			
15	Install stormwater drain, sewerage drain and manholes	300 days	Sat 3/28/15	Thu 1/21/16																			
16	Install FWM and SWM and chambers	300 days	Thu 4/2/15	Tue 1/26/16																			
17	Install irrigation system	300 days	Wed 4/1/15	Mon 1/25/16																			
18	Install fire hydrant	50 days	Tue 12/8/15	Tue 1/26/16																			
19	Install street lighting	70 days	Mon 2/8/16	Sun 4/17/16																			
20	Construct footpath, planting area and concrete run-in	70 days	Mon 2/8/16	Sun 4/17/16																			
21	Plants delivery for landscaping works	15 days	Sun 3/27/16	Sun 4/10/16																			
22 23	Preparatory works for landscaping works Hydroseeding	14 days 2 days	Mon 4/18/16 Mon 5/2/16	Sun 5/1/16 Tue 5/3/16																			
23	Tree and shurb planting	22 days	Wed 5/4/16	Wed 5/25/16																			
25																							
26	Section 5A: (Subject to Excision)	1345 days	Thu 9/19/13	Thu 5/25/17				9/19	,					_			-		-		++	—	╈
27	Establishment works for Section 5	1345 days	Thu 9/19/13	Thu 5/25/17				9/1	• 📖					щшш				фици	щщ				#
28	Oration 7.4. Dention 1 (Orbiest to Ersteiner)	900 1	The 0/10/12	E: 11/07/15																			
29 30	Section 7A: Portion 1 (Subject to Excision) Awaiting for the notification of commencement of works by the l	800 days	Thu 9/19/13 Thu 9/19/13	Fri 11/27/15 Fri 12/27/13				9/19 9/1										2/27					
31	Construct one 500mm dia., two 1000mm dia. District Cooling	350 days	Sat 12/28/13	Fri 12/12/14				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								12/2	Ш						d m
	System (DCS) chilled water pipes and four 1400mm dia. seawater pipes																						
32	Construct two DCS chilled water pipes tee to the building lots. The diameter of DCS chilled water pipes are 200mm, 500mm	350 days	Thu 3/6/14	Wed 2/18/15																		3	/61
	and 800mm subject to various locations																						
- 22			a																				
33	Construct valve chambers, instrumentation chambers, access manhole, thrust blocks, insulation provision for the DCS chilled	200 days	Sat 9/13/14	Tue 3/31/15																			
	water pipes																						
34	Construct the leakage detection system for DCS chilled water	150 days	Sun 11/9/14	Tue 4/7/15																			
54	pipes	150 days	5un 11/9/14	140 477713																			
35	Construct the cable ducts and associated draw pits for the	150 days	Wed 11/26/14	Fri 4/24/15																			
	communication system																						
36	Interfacing works with EMSD 1020EM12A Contractor for	300 days	Wed 1/1/14	Mon 10/27/14													1/1						
	connection of the proposed four seawater pipes and three chilled water pipes in Section C to their construction of seawater pipes																						
	and chilled water pipes																						
37	Testing and commissioning of the works	100 days	Fri 3/6/15	Sat 6/13/15																			
38	Install FWM and SWM and chambers	200 days	Sat 12/27/14	Tue 7/14/15																			
39 40	Pressure test, swabbing, sterilization and connection Construct valve, fire hydrant, air-valve and wash-out chambers f	70 days 80 days	Thu 6/25/15 Sun 6/28/15	Wed 9/2/15 Tue 9/15/15																			
40	Install stormwater drain, sewerage drain and construct manhole	200 days	Fri 1/9/15	Mon 7/27/15																			
42	Construct road gully and gully pipe	150 days	Fri 5/29/15	Sun 10/25/15																			
43	Construct road kerb	100 days	Thu 7/23/15	Fri 10/30/15																			
44	Construct flexible carriageway	100 days	Mon 8/10/15	Tue 11/17/15																			
45	Road marking	10 days	Wed 11/18/15	Fri 11/27/15																			
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