Civil Engineering and Development Department

EP-337/2009 - New Distributor Roads Serving the Planned KTD

Contract No. KL/2012/02
Kai Tak Development –Stage 3A Infrastructure at Former
North Apron Area

Monthly EM&A Report

February 2015

(version 2.0)

Approved By

(Environmental Team Leader)

REMARKS:

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

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

CINOTECH CONSULTANTS LTD

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

TABLE OF CONTENTS

	EXECUTIVE SUMMARY	
	Introduction	
	Environmental Monitoring Works	
	Environmental Licenses and Permits	
	Key Information in the Reporting Month	
	Future Key Issues	3
1.	INTRODUCTION	4
	Background	4
	Project Organizations	4
	Construction Activities undertaken during the Reporting Month	
	Summary of EM&A Requirements	6
2.	AIR QUALITY	7
	Monitoring Requirements	7
	Monitoring Locations	
	Monitoring Equipment	
	Monitoring Parameters, Frequency and Duration	7
	Monitoring Methodology and QA/QC Procedure	8
	Results and Observations	10
3.	NOISE	12
	Monitoring Requirements	12
	Monitoring Locations	
	Monitoring Equipment	
	Monitoring Parameters, Frequency and Duration	12
	Monitoring Methodology and QA/QC Procedures	13
	Maintenance and Calibration	
	Results and Observations	13
4.	COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS	16
5.	LANDSCAPE AND VISUAL	18
	Monitoring Requirements	18
	Results and Observations	
6.	ENVIRONMENTAL AUDIT	19
	Site Audits	
	Review of Environmental Monitoring Procedures	
	Status of Environmental Licensing and Permitting	
	Status of Waste Management	
	Implementation Status of Environmental Mitigation Measures	
	Summary of Mitigation Measures Implemented	
	Implementation Status of Event Action Plans	
	Summary of Complaint, Warning, Notification of any Summons and Successful	
	Prosecution	22
7.	FUTURE KEY ISSUES	23
	Key Issues for the Coming Month	23
	Monitoring Schedule for the Next Month	
	-	

8.	CONCLUSIONS AND RECOMMENDATIONS	25
	Conclusions	25
	Recommendations	

LIST OF TABLES

Table I	Air Quality and Noise Monitoring Stations for this Project
Table II	Non-compliance Recorded for the Project in the Reporting Month
Table III	Summary Table for Key Information in the Reporting Month
Table 1.1	Key Project Contacts
Table 1.2	Construction Programme Showing the Inter-Relationship with Environmental
	Protection/Mitigation Measures
Table 2.1	Locations for Air Quality Monitoring
Table 2.2	Air Quality Monitoring Equipment
Table 2.3	Impact Dust Monitoring Parameters, Frequency and Duration
Table 2.4	Summary Table of Air Quality Monitoring Results during the reporting month
Table 3.1	Noise Monitoring Stations
Table 3.2	Noise Monitoring Equipment
Table 3.3	Noise Monitoring Parameters, Frequency and Duration
Table 3.4	Baseline Noise Level and Noise Limit Level for Monitoring Stations
Table 3.5	Summary Table of Noise Monitoring Results during the Reporting Month
Table 4.1	Comparison of 1-hr TSP data with EIA predictions
Table 4.2	Comparison of 24-hr TSP data with EIA predictions
Table 4.3	Comparison of Noise Monitoring Data with EIA predictions
Table 6.1	Summary of Environmental Licensing and Permit Status
Table 6.2	Observations and Recommendations of Site Inspections

LIST OF FIGURES

Figure 1	Layout Plan of the Project Site
Figure 2	Locations of Air Quality Monitoring Stations
Figure 3	Locations of Construction Noise Monitoring Stations
Figure 4	Locations of Wind Anemometer
Figure 3	Locations of Construction Noise Monitoring Statio

LIST OF AP	PPENDICES
A	Action and Limit Levels for Air Quality and Noise
В	Copies of Calibration Certificates
C	Weather Information
D	Environmental Monitoring Schedules
E	1-hour TSP Monitoring Results, Graphical Presentations
F	24-hour TSP Monitoring Results, Graphical Presentations
G	Noise Monitoring Results and Graphical Presentations
H	Summary of Exceedance
I	Site Audit Summary
J	Event Action Plans
K	Environmental Mitigation Implementation Schedule (EMIS)
L	Summaries of Environmental Complaint, Warning, Summon and Notification
	of Successful Prosecution
M	Summary of Waste Generation and Disposal Records

Monthly EM&A Report – February 2015

EXECUTIVE SUMMARY

Introduction

- 1. This is the 17th Monthly Environmental Monitoring and Audit Report prepared by Cinotech Consultants Ltd. for "Contract No. KL/2012/02 Kai Tak Development Stage 3A Infrastructure at Former North Apron Area" (Hereafter referred to as "the Project"). This contract comprises one Schedule 2 designated project (DP), namely the new distributor road D1 serving the planned KTD. The DP is part of the designated project under Environmental Permit (EP) No.: EP-337/2009 ("New distributor roads serving the planned Kai Tak Development") respectively. This report documents the findings of EM&A Works conducted from 1 28 February 2015.
- 2. With reference to the same principle of EIA report of the Project, 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 I (see Figure 2 and 3 for their locations).

Table I – Air Quality and Noise Monitoring Stations for this Project

Locations	Monitoring Stations In accordance with EM&A Manual	Alternative Monitoring Stations		
Air Quality Monitoring Stations				
AM1 - Rhythm Garden	No	AM1(B) - Contractor Site Office (KL/2012/02)		
AM2 - Lee Kau Yan Memorial School	Yes N/A			
AM6 – Site 1B4 (Planned)	N/A			
Noise Monitoring Stations				
M3 - Cognitio College	Yes	N/A		
M4 - Lee Kau Yan Memorial School	Yes	N/A		
M9 – Tak Long Estate	Yes	N/A		
M10 – Site 1B4 (Planned)		N/A		

- 3. 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, have been conducted in Contract No. KLN/2013/16 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 Contract No. KLN/2013/16 will be adopted for the Project. Therefore, this report presents the air quality and noise monitoring works extracted from Contract No. KLN/2013/16.
- 4. The major site activities undertaken in the reporting month included:
 - Site Clearance:
 - Drainage Works at Portion F2, G & B6;
 - Trial Pit Excavation for SW3;

- Ground Investigation;
- Erection of Site Boundary Fencing;
- PERE Stage 3 works;
- Sheet piling and earthworks for VT1;
- RC works for VT1 at Portion G; and
- Landscaping Work at Portion F2.

Environmental Monitoring Works

- 5. 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.
- 6. Summary of the non-compliance in the reporting month for the Project is tabulated in Table II.

Table II Non-compliance Record for the Project in the Reporting Month

Parameter	No. of Project-rela	No. of Project-related Exceedance		
1 at afficter	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

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

Construction Noise Monitoring

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

Environmental Licenses and Permits

- 9. Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, EP-337/2009 issued on 23 April 2009.
- 10. Registration of Chemical Waste Producer (License: 5213-286-K3022-04).
- 11. Water Discharge License (License No.: WT00016873-2013 and WT00016723-2013).
- 12. Construction Noise Permit (License No.: GW-RE0964-14, GW-RE1233-14, GW-RE1247-14 and GW-RE0059-15).

Key Information in the Reporting Month

13. Summary of key information in the reporting month is tabulated in Table III.

Table III Summary Table for Key Information in the Reporting Month

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	

Future Key Issues

- 14. 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;
 - Wastewater and runoff discharge from site;
 - Regular removal of silt, mud and sand along u-channels and sedimentation tanks; 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 3A Infrastructure at Former North Apron Area is one of the construction stages of KTD. It contains one Schedule 2 DP including new distributor roads serving the planned KTD. The general layout of the Project is shown in **Figure 1.**
- 1.2 One Environmental Permit (EP) No. EP-337/2009 was also issued on 23 April 2009 for new distributor roads serving the planned KTD to Civil Engineering and Development Department as the Permit Holder.
- 1.3 A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and identify possible mitigation measures associated with the works. An 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) was commissioned by Kaden Construction Ltd. (the Contractor) to undertake the role of the Environmental Team (ET) for the Contract No. KL/2012/02 Stage 3A Infrastructure at Former North Apron Area. The construction work under KL/2012/02 comprises the construction of part of the Road D1 under the EP (EP-337/2009).
- 1.5 Cinotech Consultants Limited was commissioned by Kaden Construction Ltd. to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The construction commencement of this Contract was on 24th October 2013 for Road D1. This is the 17th Monthly EM&A report summarizing the EM&A works for the Project from 1 28 February 2015.

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) Ove Arup & Partners (ARUP).
 - Environmental Team (ET) Cinotech Consultants Limited (CCL).
 - Independent Environmental Checker (IEC) ANewR Consulting Limited (ANewR).
 - Contractor Kaden Construction Ltd. (Kaden).

1.7 The key contacts of the Project are shown in **Table 1.1**.

Table 1.1 Key Project Contacts

Party	Role	Contact Person	Position	Phone No.	Fax No.
CEDD	Project	Mr. Mike Cho /	Engineer	2301 1465 /	2301 1277
CEDD	Proponent	Mr. Thomas Fu		2301 1473	
ADIID	Engineer's	Mr. Keith Cheung	SRE	2716 0122	2716 0232
ARUP	Representative	Ms. Edith Fung	RE		
		Dr. Priscilla Choy	Environmental	2151 2089	
	Environmental Team		Team Leader	2131 2089	
Cinotech		Ms. Ivy Tam	Project Coordinator		3107 1388
	1 Calli		and Audit Team	2151 2090	
			Leader		
	Independent	Mr. Adi Lee	Independent		
ANewR	Environmental		Environmental	2618 2836	3007 8648
	Checker		Checker		
Kaden	Contractor	Mr. Osbert Sit	Project Manager		

Construction Activities undertaken during the Reporting Month

- 1.8 The site activities undertaken in the reporting month included:
 - Site Clearance;
 - Drainage Works at Portion F2, G & B6;
 - Trial Pit Excavation for SW3;
 - Ground Investigation;
 - Erection of Site Boundary Fencing;
 - PERE Stage 3 works;
 - Sheet piling and earthworks for VT1;
 - RC works for VT1 at Portion G; and
 - Landscaping Work at Portion F2.
- 1.9 The construction programme showing the inter-relationship with environmental protection/mitigation measures are presented in Table 1.2.

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

Construction Works	Major Environmental Impact	Control Measures
As mentioned in Section 1.8	Noise, dust impact, water quality and waste generation	Sufficient watering of the works site with active dust emitting activities; Properly cover the stockpiles; On-site waste sorting and implementation of trip ticket system Appropriate desilting/sedimentation devices provided on site for treatment before discharge; Use of quiet plant and well-maintained construction plant; Provide movable noise barrier; Well maintain the drainage system to prevent the spillage of wastewater during

heavy rainfall; Provide sufficient mitigation measures as
recommended in Approved EIA
Report/Lease requirement.

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 monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely air quality and noise levels and audit works for the Project from 1-28 February 2015.

2. AIR QUALITY

Monitoring Requirements

2.1 According to EM&A Manual under the EPs, 1-hour and 24-hour 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 Three designated monitoring stations were selected for air quality monitoring programme. Impact dust monitoring was conducted at two air quality monitoring stations, Contractor Site Office (KL/2012/02) AM1(B), Lee Kau Yan Memorial School (AM2) in the reporting month. Table 2.1 describes the air quality monitoring locations, which are also depicted in **Figure 2**.

Table 2.1 Locations for Air Quality Monitoring

Monitoring Stations	Locations	Location of Measurement
AM1(B)	Contractor Site Office (KL/2012/02)	Ground Floor Area
AM2	Lee Kau Yan Memorial School	Rooftop (about 8/F) Area
#AM6	PA 15	Site 1B4 (Planned)

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

Monitoring Equipment

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

Table 2.2 Air Quality Monitoring Equipment

Equipment	Model and Make	Quantity
Calibrator	G25A	1
1-hour TSP Dust Meter	Laser Dust Monitor – Model LD-3, LD-3B, AEROCET-531	7
HVS Sampler	GMWS 2310 c/w of TSP sampling inlet	2
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1

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	Three times / 6 days	
24-hr TSP	Once / 6 days	

Monitoring Methodology and 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 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 (HVS) samplers (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 dust 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 TSP sampling, fiberglass filters have a collection efficiency of > 99% for particles of 0.3μm 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. 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 sampling, the filter was removed and sent to the HOKLAS laboratory (Wellab Ltd.) for weighing. The elapsed time was also recorded.
- 2.17 Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary

by more than $\pm 3^{\circ}$ C; the relative humidity (RH) should be < 50% and not vary by more than $\pm 5\%$. 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.

Results and Observations

- 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 was 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 reporting month is shown in **Appendix H**. No exceedance 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 are as follows:

Station	Major Dust Source
AM1(B) – Contractor Site Office (KL/2012/02)	Road Traffic Dust
	Exposed site area and open stockpiles
	Site vehicle movement
AM2 – Lee Kau Yan Memorial School	Road Traffic Dust
	Exposed site area and open stockpiles
	Excavation works
	Site vehicle movement

2.25 Table 2.4 shows the summary of air quality monitoring results during the reporting month.

Table 2.4 Summary Table of Air Quality Monitoring Results during the reporting month

Parameter	Date	Concentration (µg/m3)	Action Level, µg/m3	Limit Level, µg/m3
AM1(B) – Contractor Site Off	ice (KL/2012/02)			
	2-Feb-15	221.4		
	2-Feb-15	218.0		
	2-Feb-15	217.9		
	6-Feb-15	193.5		
	6-Feb-15	236.0		
	6-Feb-15	212.5		
	12-Feb-15	161.0		
1-hr TSP	12-Feb-15	170.2	342	500
	12-Feb-15	158.0		
	18-Feb-15	339.5		
	18-Feb-15	341.4		
	18-Feb-15	332.0		
	24-Feb-15	245.7		
	24-Feb-15	261.6		
	24-Feb-15	254.9		
	5-Feb-15	87.9		
	11-Feb-15	117.3	159	260
24-hr TSP	17-Feb-15	99.9		
	23-Feb-15	57.0		
	27-Feb-15	44.1		
.M2 – Lee Kau Yan Memoria	l School			
	2-Feb-15	244.8		
	2-Feb-15	252.0		
	2-Feb-15	258.0		
	6-Feb-15	220.9		
	6-Feb-15	215.8		
	6-Feb-15	234.1		
	12-Feb-15	204.2		
1-hr TSP	12-Feb-15	156.4	346	500
	12-Feb-15	150.0		
	18-Feb-15	81.2		
	18-Feb-15	77.7		
	18-Feb-15	73.0		
	24-Feb-15	263.6		
	24-Feb-15	248.8		
	24-Feb-15	264.3		
	5-Feb-15	122.2		
	11-Feb-15	137.9		
24-hr TSP	17-Feb-15	134.9	157	260
	23-Feb-15	73.4		
	27-Feb-15	76.8		

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 and 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 Four designated monitoring stations were selected for noise monitoring programme. Noise monitoring was conducted at three designated monitoring stations (M3, M4, M9). **Figure 3** shows the locations of these stations.

Table 3.1 Noise Monitoring Stations

Monitoring Stations	Locations	Location of Measurement
M3	Cognitio College	Rooftop (about 6/F) Area
M4	Lee Kau Yan Memorial School	Rooftop (about 7/F) Area
M9	Tak Long Estate	Car Park Building (about 2/F)
#M10	Site 1B4 (Planned)	-

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

Monitoring Equipment

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

Table 3.2 Noise Monitoring Equipment

Equipment	Model and Make	Qty.
Integrating Sound Level Meter	SVAN 955 & 957	7
Calibrator	SVAN 30A, B&K4231	6

Monitoring Parameters, Frequency and Duration

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

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Monitoring Stations	Parameter	Period	Frequency	Measurement
M3 M4 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

Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was set on a tripod at a height of 1.2 m above the ground.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

frequency weighting
time weighting
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

- 3.5 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.6 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.7 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 and Observations

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

Monitoring Stations	Locations	Major Noise Source
M3	Cognitio College	Traffic Noise
	<u> </u>	Daily school activities
		Traffic Noise
	Lee Kau Yan Memorial School	Site vehicle movement
M4		Excavation works
		Piling works
		Daily school activities
	_ , _	Traffic Noise
M9	Tak Long Estate	Construction works

Table 3.4 Baseline Noise Level and Noise Limit Level for Monitoring Stations

Station	Baseline Noise Level, dB (A)	Noise Limit Level,dB (A)
M3	76.3/78.6 ⁽¹⁾ (at 0700 – 1900 hrs on normal weekdays) /	70* (at 0700 – 1900 hrs on
M4	76.7 (at 0700 – 1900 hrs on normal weekdays)	normal weekdays)
M9	59.9 (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.

Note (1): The baseline noise review report submitted under KLN/2013/16 for M3 was approved by EPD on 23rd August 2013. (Baseline Level was found to be 78.6 dB(A)at Rooftop of Cognitio College)

Table 3.5 Summary Table of Noise Monitoring Results during the Reporting Month

Date	Measured Noise Level, Leq(30min) dB (A)	Baseline Level dB (A)	Construction Noise Level (1): Leq(30min) dB (A)			
M3 - Cognitio	College					
		Background Noise ⁽²⁾				
2-Feb-15	80.1	80.2	$80.1 \text{ Measured} \leq \text{Background}$			
12-Feb-15	79.7	79.6	63.3			
18-Feb-15	79.4	79.2	65.9			
24-Feb-15	76.4	77.6	$76.4 \text{ Measured} \leq \text{Background}$			
M4 – Lee Kau	M4 – Lee Kau Yan Memorial School					
2-Feb-15	74.6		74.6 Measured ≤ Baseline			
12-Feb-15	76.9	767	63.4			
18-Feb-15	74.5	76.7	74.5 Measured \leq Baseline			
24-Feb-15	68.3		68.3 Measured ≤ Baseline			
M9 – Tak Long	M9 – Tak Long Estate					
5-Feb-15	61.8		57.3			
11-Feb-15	65.1	50.0	63.5			
17-Feb-15	59.1	59.9	59.1 Measured ≤ Baseline			
23-Feb-15	55.7		55.7 Measured ≤ Baseline			

Note (1) The noise level due to the construction work (CNL) was calculated by the following formula:

 $\mathrm{CNL} = 10 \; \mathrm{log} \; (10^{\mathrm{MNL/10}} - 10^{\mathrm{BNL/10}})$

Remarks: MNL = Measured Noise Level BNL = Baseline Noise Level

(2): The background Noise Level was recorded during the Lunch Hour of Construction Site (i.e. 12:00-13:00) and to be used as the referencing value for compliance checking for Noise Action and Limit Level.

4. COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

4.1 The EM&A data was compared with the EIA predictions as summarized in 4.1 to 4.3.

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

Station	Predicted 1-hr TSP conc.			
	Scenario1 (Mid Scenario2 (Mid 2009 to Mid 2013 to Late 2013), μg/m3 2016), μg/m3		Reporting Month (Feb 15), µg/m3	
AM1(B) – Contractor Site Office of KL/2008/09	192	298	237.6	
AM 2 – Lee Kau Yan Memorial School	290	312	196.3	

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

Station	Predicted 24-hr TSP conc.			
	Scenario1 (Mid Scenario2 (Mid 2009 to Mid 2013 to Late 2013), μg/m3 2016), μg/m3		Reporting Month (Feb 15), μg/m3	
AM1(B) – Contractor Site Office of KL/2008/09	121	156	81.2	
AM2 – Lee Kau Yan Memorial School	145	169	109.0	

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

Stations	Predicted Mitigated Construction Noise Levels during Normal Working Hour (Leq (30min) dB(A))	Reporting Month (Feb 15), Leq (30min) dB(A)
M3 – Cognitio College	47 - 75	$63.3 - 80.1^{(1)}$
M4 – Lee Kau Yan Memorial School	47 – 74	$63.4 - 74.6^{(2)}$
M9 – Tak Long Estate	Not Predicted in EIA Report	55.7 – 63.5

Remark:

- (1) Since the background noise level recorded during 12:00 to 13:00 was higher than those recorded during the construction period, the recorded noise levels were considered non-valid exceedance of Noise Limit Level.
- (2) Since the baseline noise level was higher than those recorded during the construction period, the recorded noise levels were considered non-valid exceedance of Noise Limit Level.
- 4.2 The 1-hour TSP concentrations in the reporting month at AM1(B) were within the prediction in the approved Environmental Impact Assessment (EIA) Report. The 1-hour TSP concentrations at AM2 were below to the prediction.
- 4.3 The 24-hour TSP concentrations in the reporting month were below to the prediction in the approved Environmental Impact Assessment (EIA) Report.

Monthly EM&A Report – February 2015

4.4 Mitigated construction noise levels at M9 were not predicted in EIA Report. The noise monitoring results in the reporting month at noise monitoring stations (M3 and M4) were not within the range of predicted mitigated construction noise levels in the EIA report. For M3, please refer to remark in Table 4.3. The noise data at M4 exceeds the prediction of mitigated scenario in EIA report but did not exceed the baseline level.

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 operation during the construction period on a weekly basis, and to report on the contractor's compliance.

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 Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in **Appendix J** shall be performed.

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 4th, 13th, 16th and 25th February 2015 in the reporting month. IEC site inspections were conducted on 13th February 2015. No non-compliance was observed during the site audits.

Review of Environmental Monitoring Procedures

6.3 The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

Air Quality Monitoring

- The monitoring team recorded all observations around the monitoring stations within and outside the construction site.
- The monitoring team recorded the temperature and weather conditions on the monitoring days.

Noise Monitoring

- 1. The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- 2. Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

Status of Environmental Licensing and Permitting

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

 Table 6.1
 Summary of Environmental Licensing and Permit Status

	Volid	Period	Jamental Dicensing and I climit Status	
Permit No.			Details	Status
	From	To		
Environmental Peri	mit (EP)			
EP-337/2009	23/04/09	N/A	Construction of new distributor roads serving the planned Kai Tak development.	Valid
Effluent Discharge Li	cense			
WT00016873-2013	-	31/08/18	Wastewater from the construction site	Valid
WT00016723-2013	-	31/08/18	including contaminated surface run-off	Valid
Registration of Chem	Registration of Chemical Waste Producer			
5213-286-K3022-04	-	N/A	Chemical Waste Types: Spent lubricating oil, Soil contaminated with lubricating oil, Spent battery containing heavy metals, Surplus paint, Spend solvent, Spend alkali and acid	Valid
Construction Noise P	Construction Noise Permit (CNP)			
GW-RE0964-14	01/09/14	27/02/15	Construction Noise Permit for the use of powered mechanical equipment for	Expired in reporting month
GW-RE1233-14	11/11/14	10/05/15	carrying out construction work other than	Valid
GW-RE1247-14	11/11/14	10/05/15	percussive pilling and performing prescribed construction work.	Valid
GW-RE0059-15	24/01/15	15/03/15	•	Valid

Status of Waste Management

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

Implementation Status of Environmental Mitigation Measures

6.7 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.

Table 6.2 Observations and Recommendations of Site Inspections

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality		1	
	27 Jan, 4 Feb 15	Sand deposited under water barrier near entrance of car park should be removed. (near Tsat Po Street)	Rectification/improvement was observed during the follow-up audit session.
27 Jan 15		Dusty stockpile should be properly covered to suppress dust generation. (near Tsat Po Street)	Rectification/improvement was observed during the follow-up audit session.
Air Quality	4 Feb 15	Dusty stockpile should be properly covered to suppress dust generation. (at Kai Tak area near Tsat Po Street)	Rectification/improvement was observed during the follow-up audit session.
Air Quainy	16 Feb 15	Unpaved area should be covered with impervious sheet where practicable to reduce dust generation during holiday.	Rectification/improvement was observed during the follow-up audit session.
25 Feb 15		Mud and silty trail at work area near KTOB should be removed.	Follow up action will be reported in next reporting month.
	25 Feb 15	Dusty stockpile and debris at work area adjacent to Concorde Road should be properly covered.	Follow up action will be reported in next reporting month.
Noise	4 Feb 2015	Noise mitigation measure should be improved for breaker at Prince Edward Road East.	Rectification/improvement was observed during the follow-up audit session.
Waste/Chemical Management	13 Feb 15	Empty cement bags should be placed inside tarpaulin coverage and regularly removed. (near KTOB)	Rectification/improvement was observed during the follow-up audit session.
Landscape and Visual			
Permits /Licences			

Summary of Mitigation Measures Implemented

6.8 The monthly IEC audit was carried out on 13th February 2015, the observations were recorded and they are presented as follows:

Observations:

Work area opposite to Operational Base –
 Empty cement bags were found on ground. The contractor should dispose of the cement bags properly.

Follow up of last observation:

- Work site area at Tsat Po Street –
 Dusty stockpile were proper cover with tarpaulin sheet. Last observation closed.
- Work site area at Tsat Po Street –
 Silt / sand was cleared up. Last observation closed.
- 6.9 An updated summary of the EMIS is provided in **Appendix K**.

Implementation Status of Event Action Plans

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

1-hr TSP Monitoring

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

24-hr TSP Monitoring

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

Construction Noise

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

Landscape and visual

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

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

6.15 The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix L**.

7. FUTURE KEY ISSUES

- 7.1 Major site activities undertaken for the coming two months include:
 - Site Clearance for all possessed portion;
 - PERE Stage 3 works;
 - ELS for VT1 at Portion G;
 - Ground Investigation and predrilling works at Portion C, B5 & B6;
 - Sheet piling and earthworks for VT1;
 - Sheet piling for SW2 and SW3;
 - Tree Transplanting;
 - RC works for VT1 at Portion G;
 - Drainage works at Portion F2, G & B6; and
 - Waterworks at Portions G and B6.

Key Issues for the Coming Month

- 7.2 Key environmental issues in the coming month include:
 - Wastewater and runoff discharge from site;
 - Overflow of the sedimentation tanks;
 - Regular removal of silt, mud and sand along u-channels and sedimentation tanks;
 - Review and implementation of temporary drainage system for the surface runoff;
 - Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site;
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
 - Dust generation should be mitigated by adequate water spraying, especially in dry days;
 - Watering 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.
- 7.3 The tentative program of major site activities and the impact prediction and control measures for the coming two months, i.e. March and April 2015 are summarized as follows:

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 perimeter protection 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 stream. 	
	Noise Impact	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; andk) Use of acoustic barriers if necessary.	

Monitoring Schedule for the Next Month

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

8. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

8.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.

1-hr TSP Monitoring

8.2 All 1-hr TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

24-hr TSP Monitoring

8.3 All 24-hr TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

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

Landscape and visual

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

Complaint and Prosecution

8.6 No environmental complaints and environmental prosecution were received in the reporting month.

Recommendations

8.7 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 and breaking works.
- To keep site entrance/exit and area near site boundary clean by regularly removal of sand and dusty trail.

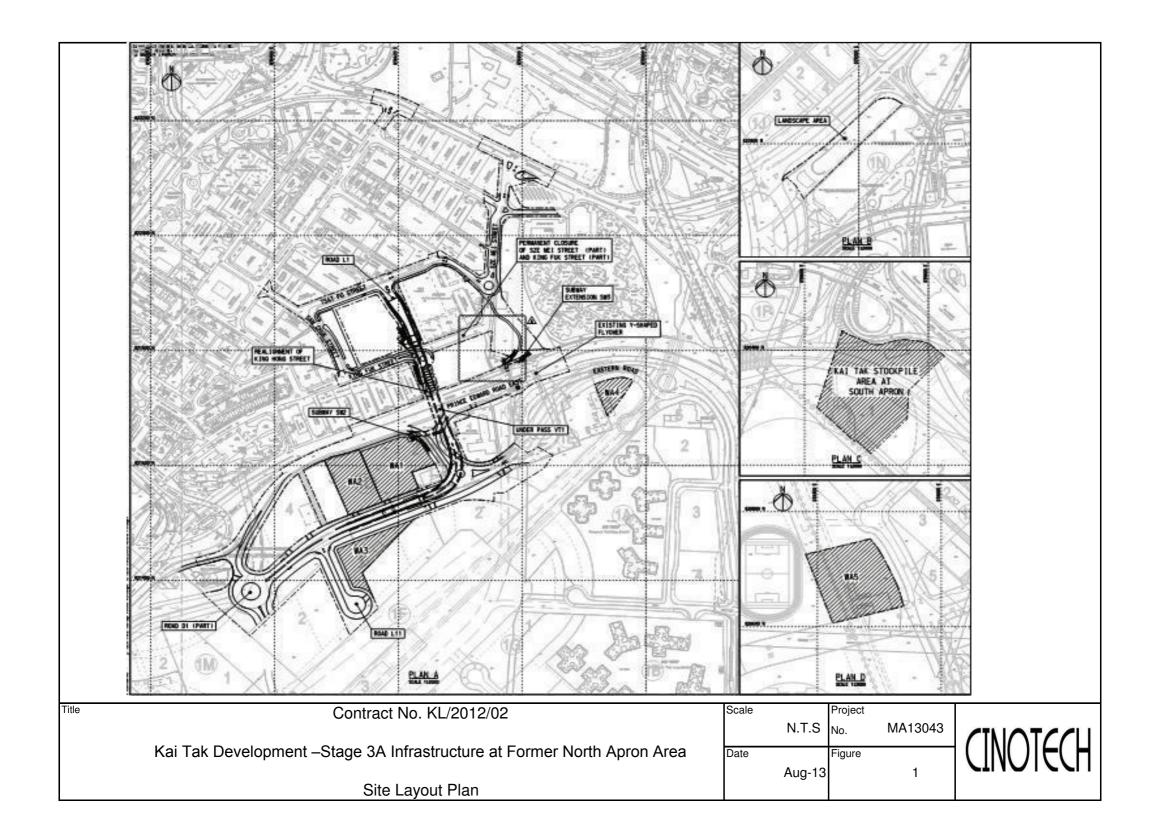
Construction Noise Impact

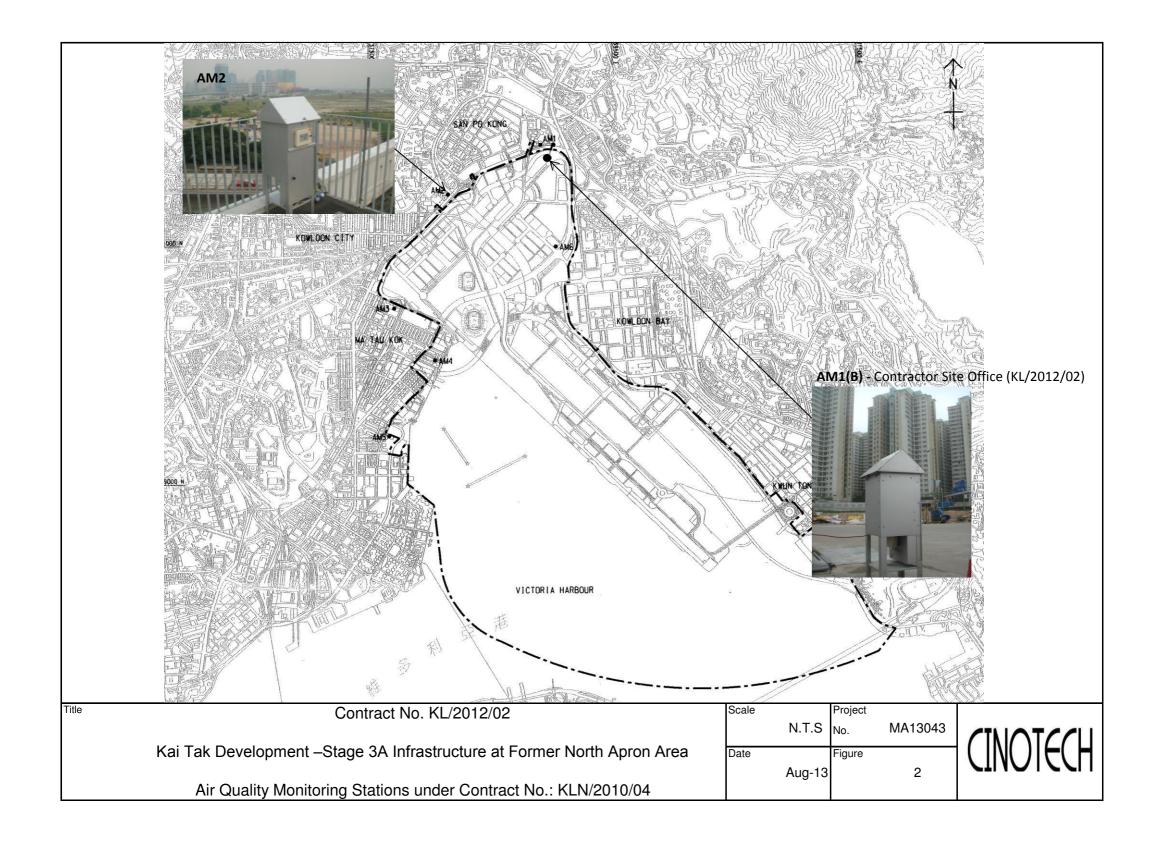
• To regularly review on the noise mitigation measures and properly maintain the conditions of the implemented noise mitigation measures.

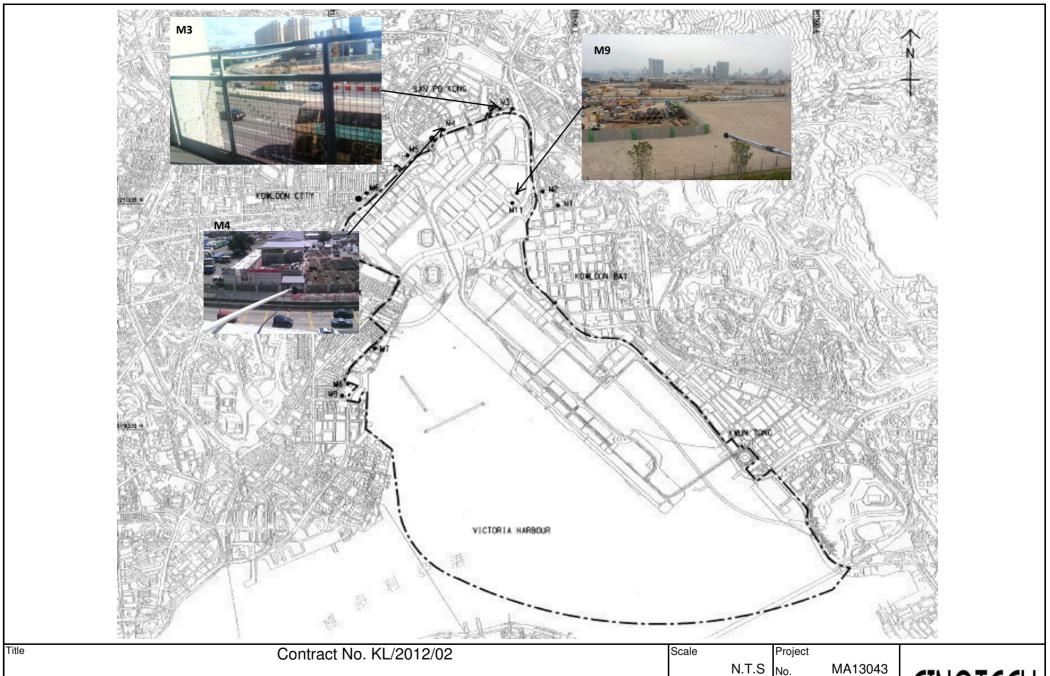
Waste / Chemical Management

• To regularly remove empty cement bags and construction waste to avoid accumulation.

FIGURES







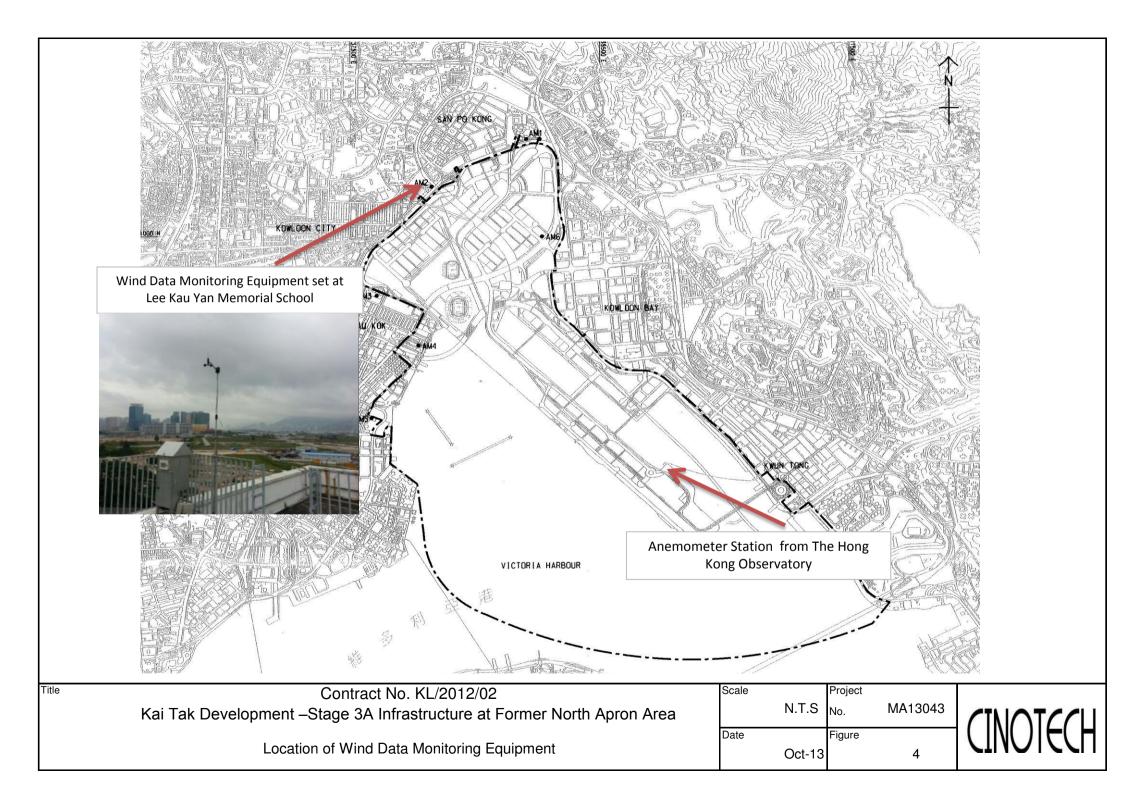
Kai Tak Development –Stage 3A Infrastructure at Former North Apron Area

Noise Monitoring Stations under Contract No.: KLN/2013/16

N.T.S No. MA13043

Date Apr-14 Figure 3





APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

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

Location	Action Level, μg/m ³	Limit Level, μg/m³
AM1(B)	342	500
AM2	346	500

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

Location	Action Level, μg/m ³	Limit Level, μg/m³
AM1(B)	159	260
AM2	157	260

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

CINOTECH

						File No.	MA14008/58/0025
Station	AMI(B) - Outsie	de RLJV site offi	ce (KL/2008/09)	Operator:	WK		
Date:	22-Dec-14		1	- Next Due Date:	21-Feb	-15	
Equipment No.:	A-01-58			Serial No.	2357		
			Ambient (Condition			·
Temperatu	re, Ta (K)	285.1	Pressure, Pa	(mmHg)		771.8	
		Or	ifice Transfer Sta	ndard Inform	ation		
Equipme	ent No.:	A-04-04	Slope, mc	0.0582	Intercept		-0.0249
Last Calibr	ation Date:	27-Sep-14			$oc = [\Delta H x (Pa/76)]$		
Next Calibr	ation Date:	26-Sep-15		$Qstd = \{ [\Delta H :$	x (Pa/760) x (298	/Ta)] ^{1/2} -bc} /	me
			Calibration of	TSP Sampler			
Calibration		Ort	fice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of oil		60) x (298/Ta)] ^{1/2} Y- axis
1	11.8	3	3.54	61.24	8.1		2.93
2	9.7	3	3.21	55.56	6.7		2.67
3	7.6	2	2.84	49.23	5.2	2.35	
4	5.1	2	2.33	40.41	3.4	1.90	
5	3.3	1	.87	32.59	2.2		1.53
Slope , mw = Correlation of	coefficient < 0.99	0.9	999	Intercept, bw :	-0.084	48	
		ek da augusta a magasa a sa		one en estado estado en entre de entre		9.509.594.195.554.48	
			Set Point C	Calculation			
From the TSP F	ield Calibration C	Curve, take Qstd =	= 43 CFM				
From the Regres	ssion Equation, th	e "Y" value acco	rding to				
		mw x C	$Qstd + bw = [\Delta W]$	x (Pa/760) x (2	98/Ta)] ^{1/2}		
Therefore, S	Set Point; W = (m	w x Qstd + bw) ²	² x (760 / Pa) x (′	Γa / 298) =	3,91		
Remarks:		·					
Conducted by: Checked by:	WK-lang	Signature: Signature:	<u>Ku</u>	mil D	- -	Date:	22/12/14 2d December de



						File No	MA14008/58/002	26
Station	AM1(B) - Outsic	le RLJV site offi	ce (KL/2008/09)	_ Operator:	WK			
Date:	18-Feb-15			Next Due Date:	17-Apr	-15		
Equipment No.:	A-01-58			Serial No.	2357			
			Ambient	Condition				
Temperatu	ire, Ta (K)	290.4	Pressure, P	a (mmHg)		768.5		
•								
		Or	ifice Transfer St	andard Inform	ation			
Equipme	ent No.:	A-04-06	Slope, mc	0.0593	Intercep	t, bc	-0.0218	
Last Calibr		4-Feb-15		mc x Qstd + l	$\mathbf{c} = [\Delta \mathbf{H} \times (\mathbf{Pa}/76)]$	60) x (298/Ta)	1/2	
Next Calibr		3-Feb-16			x (Pa/760) x (298			
					•			
			Calibration o	f TSP Sampler				
Calibration		Ori	ice			HVS		
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760	0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of oil		50) x (298/Ta)] ^{1/2} axis	Y -
1	11.7	3	.48	59.13	8.2		2.92	
2	9.6	3	.16	53.59	6.4		2.58	
3	7.4	2	.77	47.10	5.2		2.32	
4	5.1	2	.30	39.16	3.3		1.85	
5	3.4	1	.88	32.04	2.2		1.51	
Slope, mw =	ression of Y on X 0.0516 coefficient* =		984	Intercept, bw	-0.148	34		
*If Correlation (Coefficient < 0.99	0, check and reca	llibrate.	_				
			Set Point	Calculation				
From the TSP F	ield Calibration C	urve, take Qstd =	43 CFM					
From the Regres	ssion Equation, th	e "Y" value acco	rding to					
			No.4-3 Instruction 1.433	i (Da/760) (1	100 /Fa\11/2			
		mw x C	$Qstd + bw = [\Delta W]$	' X (Pa//60) X (2	298/1a)]			
Therefore, S	Set Point; W = (m	$w \times Qstd + bw)^2$	x (760/Pa)x(Ta / 298)=	4.13			
<u> </u>								
Remarks:	<u></u>							
	B-1							
	47.		1.	/		D /	10/2 lir	
Conducted by:	Whilang	Signature:	<u> </u>	sai /	-	Date:	18/2/15 18 February	
Checked by	:	Signature:		+	-	Date:	1 () Flanky	<u> </u>
				~			U	



-		Yan Memorial Sc				_	
			hool	Operator:	WK		
Equipment No.:	24-Dec-14		Next Due Date:		23-Feb-	15	
	A-01-59			Serial No.	2354		
							V-X (
			Ambient (Condition			
Temperature,	Ta (K)	288.8	Pressure, Pa	(mmHg)		770.7	

		Ori	fice Transfer Sta	ındard İnform	ation		
Equipment	No.:	A-04-04	Slope, mc	0.0582	Intercept		-0.0249
Last Calibratio	n Date:	27-Sep-14			$bc = [\Delta H \times (Pa/76)]$		
Next Calibratio	on Date:	26-Sep-15		$\mathbf{Qstd} = \{ [\Delta \mathbf{H}] \}$	x (Pa/760) x (298	/Ta)] ^{1/2} -bc} / 1	me
		•		***********	and a second		
			Calibration of	TSP Sampler			
Calibration —		Orfi	ce			HVS	• La
Point 4	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of oil		0) x (298/Ta)] ^{1/2} Y- axis
1	11.6	3.	48	60.29	8.0		2.89
2	9.7	3.	19	55.17	6.5		2.61
3	7.8	2.	86	49.52	5.1		2.31
4	5.4	2.	38	41.27	3.4		1.89
5	3.1	1.	80	31.37	2.0		1.45
By Linear Regress Slope, mw = Correlation coef	0.0501 fficient* = _	- 0.99	90	Intercept, bw	-0.152	21	
*If Correlation Coe	efficient < 0.99	0, check and reca	iibrate.			u o granduo agribaga y haga af	
			Set Point C	Calculation			
From the TSP Field							
From the Regressio	n Equation, th	e "Y" value accor	ding to				
		mu v A	$std + bw = [\Delta W]$	v (Pa/760) v (1	998/Ta\l ^{1/2}		
		mw x Q	sta : νπ [ΔΨ	A (1 11 1 1 1 1 1) A (4			
	Point; W = (m	$(\mathbf{w} \times \mathbf{Q})^2$	x(760/Pa)x(Γa / 298)=	3.83		
Therefore, Set I							



						File No	MA14008/59/0028
Station	AM2 - Lee Kau	Yan Memorial S	chool	_ Operator:	WK		
Date:	18-Feb-15		_	Next Due Date:	17-Apr	-15	
Equipment No.:	A-01-59		_	Serial No.	2354		

			Ambient	Condition	T		
Temperatu	ıre, Ta (K)	291,5	Pressure, P	a (mmHg)		767.9	
					regeneral Portal Control (Novel) and a feet for each reserve		
		O ı	rifice Transfer St	andard Inform	ation		
Equipme	ent No.:	A-04-06	Slope, mc	0.0593	Intercep		-0.0218
Last Calibra	ation Date:	4-Feb-15	1		$bc = [\Delta H \times (Pa/76)]$		
Next Calibr	ration Date:	3-Feb-16		$Qstd = \{ [\Delta H :$	x (Pa/760) x (298	/Ta)] ^{1/2} -bc} /	me
		•					
			Calibration o	f TSP Sampler			
Calibration		Or	fice			HVS	
Point	ΔH (orifice),	[ΛΗ v (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM)	ΔW		50) x (298/Ta)] ^{1/2} Y-
	in, of water	[211 X (1 167)	(250/14)]	X - axis	(HVS), in. of oil		axis
1	11.9		3.51	59.49	8.1		2.89
2	9.6		3.15	53.47	6.7		2.63
3	7.4		2.76	46.99	5.2		2.32
4	5.1		2.30	39.07	3.3		1.85
5	3.4		1.87	31.97	2.1		1.47
Slope, mw = Correlation of	coefficient* =	0.9	9985	Intercept, bw	-0.185	37	
*If Correlation (Coefficient < 0.99	0, check and rec	alibrate.				
			Set Point	Calculation			
From the TSP F	ield Calibration C	urve. take Ostd			-		
	ssion Equation, the						
rom with reaging	ssion Equation, m						
		mw x	$Qstd + bw = [\Delta W$	x (Pa/760) x (2	298/Ta)] ^{1/2}		
			2 (50 (5))	m (000)			
Therefore, S	Set Point; W = (m	w x Qstd + bw)	*x(760/Pa)x(Ta / 298)=	4.13		
n							
Remarks:							
				ì			
0111	14 7000	Ol-	Y.			Date	18/2/15
Conducted by: Checked by:	WK Tang	Signature:		vai		Date:	18/2/15 18 February 20



WELLAB LIMITED

Rms 816, 1516 & 1701, Technology Park,
18 On Lai Street, Shatin, N.T, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

Description Calibration Orifice

Serial No.

0993

Model No.

TE-5025A

Date

27 September 2014

Manufacturer

TISCH

Temperature,Ta (K)

299

Pressure, Pa (mmHg)

761.8

Equipment No.:

A-04-04

Plate	Diff.Vol (m ³)	Diff.Time (min)	Diff.Hg (mm)	Diff.H ₂ O (in.)
1	1.00	1.4230	3.3	2.00
2	1.00	1.0050	6.5	4.00
3	1.00	0.8950	8.2	5.00
4	1.00	0.8570	9.0	5.50
5	- 1.00	0.7080	13.0	8.00

DATA TABULATION

Vstd	(X axis) Qstd	(Y axis)
0.9947	0.6990	1.4135
0.9905	0.9856	1.9990
0.9883	1.1042	2.2350
0.9872	1.1519	2.3441
0.9820	1.3870	2.8270

Y axis= SQRT[H₂O(Pa/760)(298/Ta)]

Qstd Slope (m) = 2.05398

Intercept (b) = -0.02487

Coefficient (r) = 0.99996

Va	(X axis)	(Y axis)
	Qa	
0.9957	0.6997	0.8860
0.9915	0.9865	1.2530
0.9892	1.1053	1.4009
0.9882	1.1531	1.4693
0 9829	1 3883	1 7720

Y axis= SQRT[H₂O(Ta/Pa)]

Qa Slope (m) = 1.28617

Intercept (b) = -0.01559

Coefficient (r) = 0.99996

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=I/m{[SQRT(H₂O(Pa/760)(298/Ta))]-b}

Qa=I/m{[SQRT H₂O(Ta/Pa)]-b}

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager

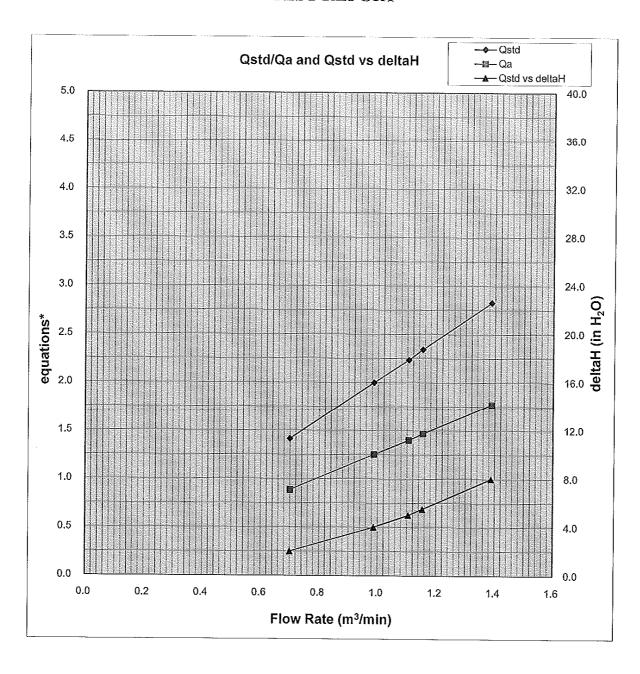
This report may not be reproduced except with prior written approval from WELLAB LIMITED and the results relate only to the items calibrat or tested.





Website: www.wellab.com.hk

TEST REPORT



Y-axis equations:

Qstd series: SQRT[\(\Delta\)H(Pa/Pstd)(Tstd/Ta)]

Qa series: SQRT[Δ H(Ta/Pa)]

This report may not be reproduced except with prior written approval from WELLAB LIMITED and the results relate only to the items calibrat or tested.



Egriphent No. A. 04-06

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

Date - Fe Operator	eb 04, 2015 Tisch	Rootsmeter Orifice I.I		438320 2896	Ta (K) - Pa (mm) -	293 756.92
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00	1.4590 1.0330 0.9250 0.8800 0.7260	3.2 6.4 7.9 8.8 12.7	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

	the state of the s		77.740			
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	= (b) $=$	1.31071 -0.01357 0.99997
y axis =	SQRT [H20 (1	Pa/760)(298/5	 Γa)]	y axis =	SQRT [H2O (7	Га/Ра)]

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:



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/141011A
Date of Issue: 2014-10-11
Date Received: 2014-10-11
Date Tested: 2014-10-11
Date Completed: 2014-10-11
Next Due Date: 2015-04-10

ATTN:

Mr. W.K. Tang

Page:

1 of 2

Certificate of Calibration

Item for calibration:

Description

: Weather Monitor II

Manufacturer

: Davis Instruments

Model No.

: 7440

Serial No.

: MC20813A11

Test conditions:

Room Temperature

: 22 degree Celsius

Relative Humidity

: 54%

Test Specifications:

- 1. Performance check of anemometer
- 2. Performance check of wind direction sensor

Methodology:

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

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE



TEST REPORT

Test Report No.:	C/141011A
Date of Issue:	2014-10-11
Date Received:	2014-10-11
Date Tested:	2014-10-11
Date Completed:	2014-10-11
Next Due Date:	2015-04-10

Page: 2 of 2

Results:

1. Performance check of anemometer

Air Velo	Difference D (m/s)	
Instrument Reading (V1)	Reference Value (V1)	D = V1 - V2
2.00	2.00	0.00

2. Performance check of wind direction sensor

Wind Dire	Difference D (°)	
Instrument Reading (W1)	Reference Value (W2)	D = W1 - W2
0	0	0
45.1	45	0.1
90.3	90.5	-0.2
134.8	135	-0.2
180.1	180	0.1
225.2	225	0.2
270.2	270	0.2
315	315	0
359.8	360	-0.2



WELLAB LIMITED Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/150102/1

Date of Issue: 2015-01-05 Date Received: 2015-01-02

Date Tested: 2015-01-02

Date Completed: 2015-01-05

Next Due Date: 2015-03-04

ATTN:

Mr. W.K. Tang

Page:

1 of 1

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 mg/m³
Sen. Adjustment Scale Setting : 550 CPM

Equipment No.

: A-02-01

Test Conditions:

Room Temperature : 20 degree Celsius

Relative Humidity : 55%

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

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/141219/1
Date of Issue: 2014-12-22
Date Received: 2014-12-19
Date Tested: 2014-12-19
Date Completed: 2014-12-22
Next Due Date: 2015-02-21

ATTN:

Mr. WK Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description

: Laser Dust Monitor

Manufacturer

: Sibata : LD-3B

Model No. Serial No.

: 954253

Sensitivity (K) 1 CPM

 $: 0.001 \text{ mg/m}^3$

Sen. Adjustment Scale Setting

: 772 CPM

Equipment No.

: A-02-05

Test Conditions:

Room Temperature

: 21 degree Celsius

Relative Humidity

: 60%

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)	0.0030

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager

This report may not be reproduced except with prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested.



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/150102/3
Date of Issue: 2015-01-05
Date Received: 2015-01-02
Date Tested: 2015-01-02

Date Completed: 2015-01-05 Next Due Date: 2015-03-04

Page:

1 of 1

ATTN: Mr. W. K. Tang

Certificate of Calibration

Item for Calibration:

Description : Laser Dust Monitor

Manufacturer: SibataModel No.: LD-3BSerial No.: 014750

Sensitivity (K) 1 CPM : 0.001 mg/m³
Sen. Adjustment Scale Setting : 790 CPM
Equipment No. : A-02-06

Test Conditions:

Room Temperature : 20 degree Celsius

Relative Humidity : 55%

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)	0.0030	

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE



ATTN:

WELLAB LIMITED

Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Mr. W. K. Tang

Shatin, NT, Hong Kong

Test Report No.: C/141231/1
Date of Issue: 2015-01-02

Date Received: 2014-12-31 Date Tested: 2014-12-31

Date Completed: 2015-01-02 Next Due Date: 2015-03-01

1 of 1

Next Due Date:

Page:

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 mg/m³

Sen. Adjustment Scale Setting : 764 CPM Equipment No. : A-02-08

Test Conditions:

Room Temperature : 21 degree Celsius

Relative Humidity : 60%

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) 0.0029

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE
Laboratory Manager



WELLAB LIMITED Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong.

Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/141231/2

Date of Issue: 2015-01-02

Date Received: 2014-12-31 Date Tested: 2014-12-31

Date Completed: 2015-01-02

Next Due Date: 2015-03-01

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description : Laser Dust Monitor

Manufacturer: SibataModel No.: LD-3BSerial No.: 095050

Sensitivity (K) 1 CPM : 0.001 mg/m³
Sen. Adjustment Scale Setting : 577 CPM
Equipment No. : A-02-09

Test Conditions:

Room Temperature : 21 degree Celsius

Relative Humidity : 60%

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



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Websiter www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/141231/3 Date of Issue: 2015-01-02

Date Received: 2014-12-31

Date Tested: 2014-12-31

Date Completed: 2015-01-02 2015-03-01

Next Due Date:

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. : 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 : 21 degree Celsius

Relative Humidity : 60%

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.



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

Cinotech Consultants Limited APPLICANT:

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/141231/4 Date of Issue: 2015-01-02

Date Received: 2014-12-31

Date Tested: 2014-12-31

Date Completed: 2015-01-02 2015-03-01

Next Due Date:

Page: 1 of 1

ATTN:

Mr. W. K. Tang

Certificate of Calibration

Item for Calibration:

Description : Dust Monitor

Manufacturer : Met One Instruments : AEROCET-531 Model No.

Serial No. : N6734 :0.1 cfm Flow rate

:0 mg (The result of the 2-minute sample) Zero Count Test

Equipment No. : A-02-13

Test Conditions:

: 21 degree Celsius Room Temperature

Relative Humidity : 60%

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)	1,1//
نځه دڅه دڅه دڅه دځه وځه دځه وځه وځه وځه وځه وځه وځه وځه وځه وځه و	***********

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/140919/1
Date of Issue: 2014-09-21
Date Received: 2014-09-19
Date Tested: 2014-09-21
Date Completed: 2014-09-21
Next Due Date: 2015-09-20

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 955

Serial No.

: 12553

Microphone No.

: 35222

Equipment No.

: N-08-02

Test conditions:

Room Temperatre

: 23 degree Celsius

Relative Humidity

: 55%

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



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/150103 Date of Issue: 2015-01-05

Date Received: 2015-01-03

Date Tested: 2015-01-03

Date Completed: 2015-01-05

Next Due Date:

2016-01-04

ATTN:

Mr. W. K. Tang

Page:

1 of 1

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

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 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

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.



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

 Test Report No.:
 C/N/140829/1

 Date of Issue:
 2014-09-01

 Date Received:
 2014-08-29

 Date Tested:
 2014-08-29

 Date Completed:
 2014-09-01

ATTN:

Mr. W.K. Tang

Page:

Next Due Date:

1 of 1

2015-08-31

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

: 24 degree Celsius

Relative Humidity

: 60%

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



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/140822/3 2014-08-25 Date of Issue: 2014-08-22 Date Received: 2014-08-22 Date Tested:

Date Completed:

2014-08-25

Next Due Date:

2015-08-24

ATTN:

Mr. W.K. Tang

Page:

1 of 1

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

: 22 degree Celsius

Relative Humidity

: 55%

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.



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/140822/1 Date of Issue: 2014-08-25 Date Received: 2014-08-22 Date Tested: 2014-08-22

Date Completed: 2014-08-25 Next Due Date: 2015-08-24

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No. Serial No.

: SVAN 957 : 21460

Microphone No. Equipment No.

: 43679 : N-08-09

Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 55%

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



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/141129/1 v1 Date of Issue: 2014-12-01

Date Received: 2014-11-29 Date Tested: 2014-11-29

Date Completed: 2014-12-01 Next Due Date: 2015-11-30

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No. Serial No.

: SVAN 957 : 23853

Microphone No.

: 48530

Equipment No.

: N-08-10

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 64%

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



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/141129/3
Date of Issue: 2014-12-01
Date Received: 2014-11-29
Date Tested: 2014-11-29
Date Completed: 2014-12-01

Next Due Date:

2014-12-01

ATTN:

Mr. W.K. Tang

Page:

1 of 1

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

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 64%

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



WELLAB LIMITED Rms 816, 1516 & 1701, Technology Park,

18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/140919/4
Date of Issue: 2014-09-21
Date Received: 2014-09-19
Date Tested: 2014-09-21
Date Completed: 2014-09-21

ATTN:

Mr. W.K. Tang

Page:

Next Due Date:

1 of 1

2015-09-20

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A

Serial No.

: 10929

Dellai ivo.

. 102*m*2

Equipment No.

: N-09-01

Test conditions:

Room Temperatre

: 23 degree Celsius

Relative Humidity

: 55%

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



WELLAB LIMITED Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Control of the Contro	1753.04(Amorphisa)-175.55(Amorphisa)-175.55
Test Report No.:	C/N/141101/1
Date of Issue:	2014-11-03
Date Received:	2014-11-01
Date Tested:	2014-11-01
Date Completed:	2014-11-03
Next Due Date:	2015-11-02

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A

Serial No.

: 10965

Equipment No.

: N-09-02

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 55%

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



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/141003/1
Date of Issue: 2014-10-04
Date Received: 2014-10-03
Date Tested: 2014-10-03
Date Completed: 2014-10-04
Next Due Date: 2015-10-03

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A

Serial No. Equipment No.

: 24803 : N-09-03

Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 56%

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



WELLAB LIMITED Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/N/141003/2
Date of Issue:	2014-10-04
Date Received:	2014-10-03
Date Tested:	2014-10-03
Date Completed:	2014-10-04
Next Due Date:	2015-10-03

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer Model No.

: SVANTEK

Serial No.

: SV30A : 24791

Equipment No.

: N-09-04

Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 56%

Methodology:

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

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	$114.0 \pm 0.1 \text{ dB}$

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/141003/3 Date of Issue: 2014-10-04 Date Received: 2014-10-03 2014-10-03 Date Tested: Date Completed: 2014-10-04 Next Due Date: 2015-10-03

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer Model No.

: SVANTEK

: SV30A

Serial No.

: 24780

Equipment No.

: N-09-05

Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 56%

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



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/140822/2 Date of Issue: 2014-08-25

Date Received: 2014-08-22 Date Tested: 2014-08-22

Date Completed: 2014-08-25 2015-08-24

Next Due Date:

1 of 1

ATTN:

Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description

: Acoustical Calibrator

Page:

Manufacturer

: Brüel & Kjær

Model No.

: 4231

Serial No.

: 2412367

Equipment No.

: N-02-03

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 64%

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

This report may not be reproduced except with prior written approval from WELLAB LIMITED and the results relate only to the items calibrated

APPENDIX C WEATHER INFORMATION

I. General Information

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 February 2015	14.2 – 17.2	68 – 83	Trace
2 February 2015	14.7 – 19.1	63 – 85	0
3 February 2015	15.5 – 19.8	68 – 86	0
4 February 2015	14.2 – 17.9	68 – 88	0
5 February 2015	12.5 – 16.5	55 – 73	Trace
6 February 2015	11.0 – 15.7	59 – 81	0.3
7 February 2015	14.4 – 18.4	64 – 80	0
8 February 2015	13.9 – 19.5	37 – 75	0
9 February 2015	13.7 – 17.2	57 – 74	0
10 February 2015	12.8 – 17.1	61 – 77	0
11 February 2015	13.6 – 18.0	57 – 81	0
12 February 2015	14.6 – 21.4	37 – 72	0
13 February 2015	14.4 – 21.5	35 – 66	0
14 February 2015	16.8 – 20.5	43 – 71	0
15 February 2015	18.1 – 19.8	72 – 96	3.3
16 February 2015	17.8 – 21.6	81 – 97	0
17 February 2015	18.2 – 21.6	67 – 96	Trace
18 February 2015	17.1 – 19.4	68 – 88	Trace
19 February 2015	16.4 – 17.9	72 – 87	Trace

I. General Information

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
20 February 2015	15.9 – 19.1	76 – 90	Trace
21 February 2015	17.6 – 21.0	85 – 95	0.2
22 February 2015	18.9 – 22.0	87 – 98	15.6
23 February 2015	17.9 – 19.1	90 – 98	10.2
24 February 2015	17.8 – 19.6	89 – 97	Trace
25 February 2015	18.9 – 20.5	91 – 98	0.8
26 February 2015	19.5 – 23.8	81 – 97	0
27 February 2015	17.9 – 21.5	92 – 95	1.2
28 February 2015	17.2 – 19.5	86 – 94	0.4

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

II. Mean Wind Speed and Wind Direction

Date	Time	Wind Speed m/s	Direction
1-Feb-2015	00:00	0.5	NE
1-Feb-2015	01:00	0.5	NE
1-Feb-2015	02:00	0.3	NNE
1-Feb-2015	03:00	0.5	NNE
1-Feb-2015	04:00	0.1	NNE
1-Feb-2015	05:00	0.3	NNE
1-Feb-2015	06:00	0.5	NNE
1-Feb-2015	07:00	0.3	NNE
1-Feb-2015	08:00	0.1	NNE
1-Feb-2015	09:00	1.1	NE
1-Feb-2015	10:00	1.3	NNE
1-Feb-2015	11:00	1.7	ENE
1-Feb-2015	12:00	2.8	ENE
1-Feb-2015	13:00	2.4	E
1-Feb-2015	14:00	2.2	WNW
1-Feb-2015	15:00	2.2	W
1-Feb-2015	16:00	2.1	SW
1-Feb-2015	17:00	1.4	SW
1-Feb-2015	18:00	1.4	W
1-Feb-2015	19:00	1.4	WNW
1-Feb-2015	20:00	1	W
1-Feb-2015	21:00	1	WNW
1-Feb-2015	22:00	0.7	WNW
1-Feb-2015	23:00	1.1	SW
2-Feb-2015	00:00	0.8	WNW
2-Feb-2015	01:00	0.8	W
2-Feb-2015	02:00	0.6	WSW
2-Feb-2015	03:00	0.7	WSW
2-Feb-2015	04:00	1.1	WSW
2-Feb-2015	05:00	1	WSW
2-Feb-2015	06:00	0.5	SW
2-Feb-2015	07:00	0.3	WSW
2-Feb-2015	08:00	0.8	WSW
2-Feb-2015	09:00	1.1	WSW
2-Feb-2015	10:00	1.3	WSW
2-Feb-2015	11:00	1.1	WSW

II. Mean Wind Speed and Wind Direction

2-Feb-2015	12:00	2	WSW
2-Feb-2015	13:00	1.5	W
2-Feb-2015	14:00	2.1	W
2-Feb-2015	15:00	1.8	WNW
2-Feb-2015	16:00	2	WNW
2-Feb-2015	17:00	1.4	W
2-Feb-2015	18:00	1.4	WNW
2-Feb-2015	19:00	1.7	W
2-Feb-2015	20:00	1.5	N
2-Feb-2015	21:00	1.7	SE
2-Feb-2015	22:00	1	SE
2-Feb-2015	23:00	1.4	SE
3-Feb-2015	00:00	1.4	SE
3-Feb-2015	01:00	1.4	SW
3-Feb-2015	02:00	1.1	SW
3-Feb-2015	03:00	1	SW
3-Feb-2015	04:00	1.3	W
3-Feb-2015	05:00	1.3	WNW
3-Feb-2015	06:00	1.1	W
3-Feb-2015	07:00	1.3	WNW
3-Feb-2015	08:00	1.5	NNE
3-Feb-2015	09:00	1.8	NNE
3-Feb-2015	10:00	1.8	NNE
3-Feb-2015	11:00	2	S
3-Feb-2015	12:00	2.7	S
3-Feb-2015	13:00	2.5	WNW
3-Feb-2015	14:00	2.2	WNW
3-Feb-2015	15:00	2.5	WSW
3-Feb-2015	16:00	2.1	NNW
3-Feb-2015	17:00	1.7	W
3-Feb-2015	18:00	1.1	NW
3-Feb-2015	19:00	0.8	W
3-Feb-2015	20:00	0.6	W
3-Feb-2015	21:00	1.3	WNW
3-Feb-2015	22:00	0.8	WNW
3-Feb-2015	23:00	1	W
4-Feb-2015	00:00	1.4	WSW

II. Mean Wind Speed and Wind Direction

4 Fab 0015	01.00	1.4	WSW
4-Feb-2015	01:00	1.1	
4-Feb-2015	02:00	1.4	SW
4-Feb-2015	03:00	1.1	WSW
4-Feb-2015	04:00	0.7	W
4-Feb-2015	05:00	0.1	W
4-Feb-2015	06:00	0.6	W
4-Feb-2015	07:00	1	SW
4-Feb-2015	08:00	1.7	W
4-Feb-2015	09:00	2	WNW
4-Feb-2015	10:00	2	WNW
4-Feb-2015	11:00	2	WNW
4-Feb-2015	12:00	2	WNW
4-Feb-2015	13:00	1.5	SW
4-Feb-2015	14:00	1.2	SSW
4-Feb-2015	15:00	1.1	SSW
4-Feb-2015	16:00	1.4	SSW
4-Feb-2015	17:00	1.8	WNW
4-Feb-2015	18:00	1.5	WNW
4-Feb-2015	19:00	1.2	N
4-Feb-2015	20:00	1.4	N
4-Feb-2015	21:00	1	SE
4-Feb-2015	22:00	1.1	NW
4-Feb-2015	23:00	0.3	N
5-Feb-2015	00:00	0.1	NE
5-Feb-2015	01:00	0.6	NE
5-Feb-2015	02:00	0.6	N
5-Feb-2015	03:00	1.1	N
5-Feb-2015	04:00	1.1	NNE
5-Feb-2015	05:00	1.5	Е
5-Feb-2015	06:00	1.5	NE
5-Feb-2015	07:00	1.8	NE
5-Feb-2015	08:00	0.6	NE
5-Feb-2015	09:00	2.3	NE
5-Feb-2015	10:00	2.2	NE
5-Feb-2015	11:00	3.1	NE
5-Feb-2015	12:00	2.8	NE
5-Feb-2015	13:00	2.2	NE
		I.	

5-Feb-2015	14:00	2	NW
5-Feb-2015	15:00	1.8	NE
5-Feb-2015	16:00	1.1	NE
5-Feb-2015	17:00	1.4	NE
5-Feb-2015	18:00	0.9	WSW
5-Feb-2015	19:00	0.3	W
5-Feb-2015	20:00	0.3	WSW
5-Feb-2015	21:00	0.3	WSW
5-Feb-2015	22:00	0.3	WSW
5-Feb-2015	23:00	0.1	W
6-Feb-2015	00:00	0.4	W
6-Feb-2015	01:00	0.1	W
6-Feb-2015	02:00	0.4	W
6-Feb-2015	03:00	0.3	W
6-Feb-2015	04:00	0.4	SSW
6-Feb-2015	05:00	0.4	SSW
6-Feb-2015	06:00	0.3	SSW
6-Feb-2015	07:00	0.1	WSW
6-Feb-2015	08:00	0.1	W
6-Feb-2015	09:00	0.4	W
6-Feb-2015	10:00	1	W
6-Feb-2015	11:00	1.2	W
6-Feb-2015	12:00	1.3	WSW
6-Feb-2015	13:00	2	WNW
6-Feb-2015	14:00	1.8	NW
6-Feb-2015	15:00	1.7	NNE
6-Feb-2015	16:00	2.2	W
6-Feb-2015	17:00	2.3	WNW
6-Feb-2015	18:00	2	W
6-Feb-2015	19:00	1.2	W
6-Feb-2015	20:00	0.7	W
6-Feb-2015	21:00	1	S
6-Feb-2015	22:00	0.5	SW
6-Feb-2015	23:00	0.3	W
7-Feb-2015	00:00	0.1	W
7-Feb-2015	01:00	0.1	W
7-Feb-2015	02:00	0.8	WSW

7-Feb-2015	03:00	0.1	W
7-Feb-2015	04:00	0.1	W
7-Feb-2015	05:00	0.3	W
7-Feb-2015	06:00	0.6	W
7-Feb-2015	07:00	0.5	NNE
7-Feb-2015	08:00	1.3	NW
7-Feb-2015	09:00	1.8	S
7-Feb-2015	10:00	2.5	W
7-Feb-2015	11:00	2.1	SSW
7-Feb-2015	12:00	2	WSW
7-Feb-2015	13:00	2	WSW
7-Feb-2015	14:00	1.4	WNW
7-Feb-2015	15:00	1.4	WNW
7-Feb-2015	16:00	1.5	W
7-Feb-2015	17:00	1.8	W
7-Feb-2015	18:00	0.9	W
7-Feb-2015	19:00	0.1	WNW
7-Feb-2015	20:00	0.1	SSW
7-Feb-2015	21:00	0.9	WSW
7-Feb-2015	22:00	0.8	W
7-Feb-2015	23:00	0.1	W
8-Feb-2015	00:00	0.1	W
8-Feb-2015	01:00	0.1	WSW
8-Feb-2015	02:00	0.1	WNW
8-Feb-2015	03:00	0.1	WSW
8-Feb-2015	04:00	0.1	WSW
8-Feb-2015	05:00	0.1	W
8-Feb-2015	06:00	0.1	WSW
8-Feb-2015	07:00	0.1	WSW
8-Feb-2015	08:00	0.1	WSW
8-Feb-2015	09:00	0.9	WSW
8-Feb-2015	10:00	1.1	W
8-Feb-2015	11:00	1.1	WSW
8-Feb-2015	12:00	1.4	WSW
8-Feb-2015	13:00	1.8	WSW
8-Feb-2015	14:00	2	WSW
8-Feb-2015	15:00	1.7	W
		•	

8-Feb-2015	16:00	1.3	WSW
8-Feb-2015	17:00	1.4	W
8-Feb-2015	18:00	0.7	W
8-Feb-2015	19:00	0.1	N
8-Feb-2015	20:00	0.1	N
8-Feb-2015	21:00	0.1	N
8-Feb-2015	22:00	0.1	WSW
8-Feb-2015	23:00	0.1	W
9-Feb-2015	00:00	0.5	W
9-Feb-2015	01:00	0.8	WNW
9-Feb-2015	02:00	0.6	W
9-Feb-2015	03:00	0.6	SW
9-Feb-2015	04:00	0.7	WSW
9-Feb-2015	05:00	0.7	W
9-Feb-2015	06:00	0.8	W
9-Feb-2015	07:00	0.8	W
9-Feb-2015	08:00	0.4	W
9-Feb-2015	09:00	0.7	WNW
9-Feb-2015	10:00	0.9	NNE
9-Feb-2015	11:00	1.8	NNE
9-Feb-2015	12:00	1.5	W
9-Feb-2015	13:00	1.5	W
9-Feb-2015	14:00	1.4	W
9-Feb-2015	15:00	1.8	W
9-Feb-2015	16:00	1.3	WNW
9-Feb-2015	17:00	1.3	W
9-Feb-2015	18:00	0.8	W
9-Feb-2015	19:00	0.8	W
9-Feb-2015	20:00	0.3	W
9-Feb-2015	21:00	0.1	W
9-Feb-2015	22:00	0.1	W
9-Feb-2015	23:00	0.3	W
10-Feb-2015	00:00	0.5	W
10-Feb-2015	01:00	0.1	SW
10-Feb-2015	02:00	0.2	W
10-Feb-2015	03:00	0.6	W
10-Feb-2015	04:00	0.8	WSW

		1	1
10-Feb-2015	05:00	0.5	W
10-Feb-2015	06:00	0.6	W
10-Feb-2015	07:00	0.6	WSW
10-Feb-2015	08:00	0.7	WSW
10-Feb-2015	09:00	0.6	WSW
10-Feb-2015	10:00	1.4	W
10-Feb-2015	11:00	1.2	WSW
10-Feb-2015	12:00	1.1	WSW
10-Feb-2015	13:00	1.8	WSW
10-Feb-2015	14:00	1.7	WSW
10-Feb-2015	15:00	1.5	W
10-Feb-2015	16:00	1	WSW
10-Feb-2015	17:00	0.7	WSW
10-Feb-2015	18:00	0.3	W
10-Feb-2015	19:00	0.4	W
10-Feb-2015	20:00	0.3	WSW
10-Feb-2015	21:00	0.7	W
10-Feb-2015	22:00	0.1	WSW
10-Feb-2015	23:00	0.5	SW
11-Feb-2015	00:00	0.3	W
11-Feb-2015	01:00	0.6	SSW
11-Feb-2015	02:00	0.3	SSW
11-Feb-2015	03:00	0.1	SSW
11-Feb-2015	04:00	0.6	SSW
11-Feb-2015	05:00	0.1	W
11-Feb-2015	06:00	0.1	W
11-Feb-2015	07:00	0.1	WNW
11-Feb-2015	08:00	0.5	NW
11-Feb-2015	09:00	0.3	W
11-Feb-2015	10:00	0.4	W
11-Feb-2015	11:00	1	WNW
11-Feb-2015	12:00	1.3	WNW
11-Feb-2015	13:00	1.1	W
11-Feb-2015	14:00	0.5	WNW
11-Feb-2015	15:00	0.5	W
11-Feb-2015	16:00	0.4	WNW
11-Feb-2015	17:00	0.1	NW
	<u> </u>	i	

11-Feb-2015	18:00	0.4	W
11-Feb-2015	19:00	0.4	W
11-Feb-2015	20:00	0.6	W
11-Feb-2015	21:00	0.3	W
11-Feb-2015	22:00	0.4	WSW
11-Feb-2015	23:00	1	WSW
12-Feb-2015	00:00	1.1	SW
12-Feb-2015	01:00	0.5	SW
12-Feb-2015	02:00	0.4	WNW
12-Feb-2015	03:00	0.1	W
12-Feb-2015	04:00	0.1	W
12-Feb-2015	05:00	0.6	WNW
12-Feb-2015	06:00	0.9	WNW
12-Feb-2015	07:00	1.1	WNW
12-Feb-2015	08:00	1.5	WNW
12-Feb-2015	09:00	1.5	WNW
12-Feb-2015	10:00	1.8	W
12-Feb-2015	11:00	2.5	W
12-Feb-2015	12:00	2.7	W
12-Feb-2015	13:00	2.2	WSW
12-Feb-2015	14:00	1.7	SSW
12-Feb-2015	15:00	2.4	WSW
12-Feb-2015	16:00	2.8	SSW
12-Feb-2015	17:00	2.4	W
12-Feb-2015	18:00	2	SW
12-Feb-2015	19:00	2	W
12-Feb-2015	20:00	1.3	W
12-Feb-2015	21:00	1.1	W
12-Feb-2015	22:00	1.1	W
12-Feb-2015	23:00	1	W
13-Feb-2015	00:00	1.1	W
13-Feb-2015	01:00	1	W
13-Feb-2015	02:00	1.4	W
13-Feb-2015	03:00	1.5	SW
13-Feb-2015	04:00	1.3	SW
13-Feb-2015	05:00	1.4	WNW
13-Feb-2015	06:00	1.1	W
		i	i .

13-Feb-2015	10 5 1 0015	07.00		0014
13-Feb-2015 09:00 2 WNW 13-Feb-2015 10:00 2.2 ENE 13-Feb-2015 11:00 2.4 SW 13-Feb-2015 12:00 2.5 WSW 13-Feb-2015 13:00 2.4 W 13-Feb-2015 14:00 2.3 SW 13-Feb-2015 15:00 2.1 WSW 13-Feb-2015 16:00 1.8 WSW 13-Feb-2015 17:00 1.4 WSW 13-Feb-2015 17:00 1.4 WSW 13-Feb-2015 18:00 1.3 WSW 13-Feb-2015 19:00 0.7 WSW 13-Feb-2015 20:00 1 WSW 13-Feb-2015 20:00 1.1 SW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 20:00 1.1 ENE 14-Feb-2015 00:00 1.1 ENE <t< td=""><td>13-Feb-2015</td><td>07:00</td><td>1</td><td>SSW</td></t<>	13-Feb-2015	07:00	1	SSW
13-Feb-2015 10:00 2.2 ENE 13-Feb-2015 11:00 2.4 SW 13-Feb-2015 12:00 2.5 WSW 13-Feb-2015 13:00 2.4 W 13-Feb-2015 14:00 2.3 SW 13-Feb-2015 15:00 2.1 WSW 13-Feb-2015 16:00 1.8 WSW 13-Feb-2015 17:00 1.4 WSW 13-Feb-2015 18:00 1.3 WSW 13-Feb-2015 19:00 0.7 WSW 13-Feb-2015 20:00 1 WSW 13-Feb-2015 21:00 1.1 SW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 23:00 0.8 NNE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 01:00 1.1 ENE 14-Feb-2015 03:00 1.4 ENE				
13-Feb-2015 11:00 2.4 SW 13-Feb-2015 12:00 2.5 WSW 13-Feb-2015 13:00 2.4 W 13-Feb-2015 14:00 2.3 SW 13-Feb-2015 15:00 2.1 WSW 13-Feb-2015 15:00 1.8 WSW 13-Feb-2015 16:00 1.8 WSW 13-Feb-2015 17:00 1.4 WSW 13-Feb-2015 18:00 1.3 WSW 13-Feb-2015 19:00 0.7 WSW 13-Feb-2015 20:00 1 WSW 13-Feb-2015 21:00 1.1 SW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 23:00 0.8 NNE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 01:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE		+		
13-Feb-2015 12:00 2.5 WSW 13-Feb-2015 13:00 2.4 W 13-Feb-2015 14:00 2.3 SW 13-Feb-2015 15:00 2.1 WSW 13-Feb-2015 16:00 1.8 WSW 13-Feb-2015 17:00 1.4 WSW 13-Feb-2015 18:00 1.3 WSW 13-Feb-2015 19:00 0.7 WSW 13-Feb-2015 20:00 1 WSW 13-Feb-2015 20:00 1 WSW 13-Feb-2015 21:00 1.1 SW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 23:00 0.8 NNE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 05:00 0.8 ENE <	13-Feb-2015	10:00	2.2	ENE
13-Feb-2015 13:00 2.4 W 13-Feb-2015 14:00 2.3 SW 13-Feb-2015 15:00 2.1 WSW 13-Feb-2015 16:00 1.8 WSW 13-Feb-2015 17:00 1.4 WSW 13-Feb-2015 18:00 1.3 WSW 13-Feb-2015 19:00 0.7 WSW 13-Feb-2015 20:00 1 WSW 13-Feb-2015 21:00 1.1 SW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 23:00 0.8 NNE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 06:00 1.5 N <	13-Feb-2015	11:00	2.4	SW
13-Feb-2015 14:00 2.3 SW 13-Feb-2015 15:00 2.1 WSW 13-Feb-2015 16:00 1.8 WSW 13-Feb-2015 17:00 1.4 WSW 13-Feb-2015 18:00 1.3 WSW 13-Feb-2015 19:00 0.7 WSW 13-Feb-2015 20:00 1 WSW 13-Feb-2015 21:00 1.1 SW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 23:00 0.8 NNE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N	13-Feb-2015	12:00	2.5	WSW
13-Feb-2015 15:00 2.1 WSW 13-Feb-2015 16:00 1.8 WSW 13-Feb-2015 17:00 1.4 WSW 13-Feb-2015 18:00 1.3 WSW 13-Feb-2015 19:00 0.7 WSW 13-Feb-2015 20:00 1 WSW 13-Feb-2015 21:00 1.1 SW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 23:00 0.8 NNE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 01:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 07:00 0.7 N	13-Feb-2015	13:00	2.4	W
13-Feb-2015 16:00 1.8 WSW 13-Feb-2015 17:00 1.4 WSW 13-Feb-2015 18:00 1.3 WSW 13-Feb-2015 19:00 0.7 WSW 13-Feb-2015 20:00 1 WSW 13-Feb-2015 21:00 1.1 SW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 23:00 0.8 NNE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 01:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N 14-Feb-2015 07:00 0.7 N 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE	13-Feb-2015	14:00	2.3	SW
13-Feb-2015 17:00 1.4 WSW 13-Feb-2015 18:00 1.3 WSW 13-Feb-2015 19:00 0.7 WSW 13-Feb-2015 20:00 1 WSW 13-Feb-2015 21:00 1.1 SW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 23:00 0.8 NNE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 01:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N 14-Feb-2015 06:00 1.5 N 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 11:00 1.8 ENE	13-Feb-2015	15:00	2.1	WSW
13-Feb-2015 18:00 1.3 WSW 13-Feb-2015 19:00 0.7 WSW 13-Feb-2015 20:00 1 WSW 13-Feb-2015 21:00 1.1 SW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 23:00 0.8 NNE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 01:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N 14-Feb-2015 07:00 0.7 N 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE	13-Feb-2015	16:00	1.8	WSW
13-Feb-2015 19:00 0.7 WSW 13-Feb-2015 20:00 1 WSW 13-Feb-2015 21:00 1.1 SW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 23:00 0.8 NNE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 01:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N 14-Feb-2015 07:00 0.7 N 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 13:00 2.4 ENE	13-Feb-2015	17:00	1.4	WSW
13-Feb-2015 20:00 1 WSW 13-Feb-2015 21:00 1.1 SW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 23:00 0.8 NNE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 01:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N 14-Feb-2015 07:00 0.7 N 14-Feb-2015 08:00 1 ENE 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 13:00 2.4 ENE 14-Feb-2015 14:00 2.4 ENE <t< td=""><td>13-Feb-2015</td><td>18:00</td><td>1.3</td><td>WSW</td></t<>	13-Feb-2015	18:00	1.3	WSW
13-Feb-2015 21:00 1.1 SW 13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 23:00 0.8 NNE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 01:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N 14-Feb-2015 07:00 0.7 N 14-Feb-2015 08:00 1 ENE 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 13:00 2.4 ENE 14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE	13-Feb-2015	19:00	0.7	WSW
13-Feb-2015 22:00 1.1 WSW 13-Feb-2015 23:00 0.8 NNE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 01:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N 14-Feb-2015 07:00 0.7 N 14-Feb-2015 08:00 1 ENE 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 13:00 2.4 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 15:00 2.1 NNE	13-Feb-2015	20:00	1	WSW
13-Feb-2015 23:00 0.8 NNE 14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 01:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N 14-Feb-2015 07:00 0.7 N 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 13:00 2.4 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 16:00 1.5 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 <	13-Feb-2015	21:00	1.1	SW
14-Feb-2015 00:00 1.1 ENE 14-Feb-2015 01:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N 14-Feb-2015 07:00 0.7 N 14-Feb-2015 08:00 1 ENE 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 12:00 2.4 ENE 14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	13-Feb-2015	22:00	1.1	WSW
14-Feb-2015 01:00 1.1 ENE 14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N 14-Feb-2015 07:00 0.7 N 14-Feb-2015 08:00 1 ENE 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 12:00 2.4 ENE 14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	13-Feb-2015	23:00	0.8	NNE
14-Feb-2015 02:00 1.3 ENE 14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N 14-Feb-2015 07:00 0.7 N 14-Feb-2015 08:00 1 ENE 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 12:00 2.4 ENE 14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	00:00	1.1	ENE
14-Feb-2015 03:00 1.4 ENE 14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N 14-Feb-2015 07:00 0.7 N 14-Feb-2015 08:00 1 ENE 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 12:00 2.4 ENE 14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	01:00	1.1	ENE
14-Feb-2015 04:00 1.1 ENE 14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N 14-Feb-2015 07:00 0.7 N 14-Feb-2015 08:00 1 ENE 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 12:00 2.4 ENE 14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	02:00	1.3	ENE
14-Feb-2015 05:00 0.8 ENE 14-Feb-2015 06:00 1.5 N 14-Feb-2015 07:00 0.7 N 14-Feb-2015 08:00 1 ENE 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 12:00 2.4 ENE 14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	03:00	1.4	ENE
14-Feb-2015 06:00 1.5 N 14-Feb-2015 07:00 0.7 N 14-Feb-2015 08:00 1 ENE 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 12:00 2.4 ENE 14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	04:00	1.1	ENE
14-Feb-2015 07:00 0.7 N 14-Feb-2015 08:00 1 ENE 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 12:00 2.4 ENE 14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	05:00	0.8	ENE
14-Feb-2015 08:00 1 ENE 14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 12:00 2.4 ENE 14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	06:00	1.5	N
14-Feb-2015 09:00 1.4 ENE 14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 12:00 2.4 ENE 14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	07:00	0.7	N
14-Feb-2015 10:00 1.7 ENE 14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 12:00 2.4 ENE 14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	08:00	1	ENE
14-Feb-2015 11:00 1.8 ENE 14-Feb-2015 12:00 2.4 ENE 14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	09:00	1.4	ENE
14-Feb-2015 12:00 2.4 ENE 14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	10:00	1.7	ENE
14-Feb-2015 13:00 2.6 ENE 14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	11:00	1.8	ENE
14-Feb-2015 14:00 2.4 ENE 14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	12:00	2.4	ENE
14-Feb-2015 15:00 2.1 NNE 14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	13:00	2.6	ENE
14-Feb-2015 16:00 1.4 NNE 14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	14:00	2.4	ENE
14-Feb-2015 17:00 1.5 NNE 14-Feb-2015 18:00 2.1 N	14-Feb-2015	15:00	2.1	NNE
14-Feb-2015 18:00 2.1 N	14-Feb-2015	16:00	1.4	NNE
	14-Feb-2015	17:00	1.5	NNE
14-Feb-2015 19:00 1.3 ENE	14-Feb-2015	18:00	2.1	N
	14-Feb-2015	19:00	1.3	ENE

<u> </u>			1
14-Feb-2015	20:00	1.3	ENE
14-Feb-2015	21:00	0.9	E
14-Feb-2015	22:00	0.7	ENE
14-Feb-2015	23:00	0.7	ENE
15-Feb-2015	00:00	0.8	ENE
15-Feb-2015	01:00	1.1	NNE
15-Feb-2015	02:00	1.3	NNE
15-Feb-2015	03:00	1.4	NNE
15-Feb-2015	04:00	1.2	NE
15-Feb-2015	05:00	1.1	NE
15-Feb-2015	06:00	0.8	ENE
15-Feb-2015	07:00	0.9	NNE
15-Feb-2015	08:00	1.4	ENE
15-Feb-2015	09:00	1.7	ENE
15-Feb-2015	10:00	1.5	ENE
15-Feb-2015	11:00	2	WNW
15-Feb-2015	12:00	1.8	N
15-Feb-2015	13:00	2.2	ENE
15-Feb-2015	14:00	2.4	N
15-Feb-2015	15:00	2	ESE
15-Feb-2015	16:00	2.1	ESE
15-Feb-2015	17:00	2.1	W
15-Feb-2015	18:00	1.5	SW
15-Feb-2015	19:00	1.5	SSW
15-Feb-2015	20:00	1.5	WNW
15-Feb-2015	21:00	1.7	S
15-Feb-2015	22:00	1.7	W
15-Feb-2015	23:00	1.4	W
16-Feb-2015	00:00	1	W
16-Feb-2015	01:00	0.8	W
16-Feb-2015	02:00	0.7	W
16-Feb-2015	03:00	0.8	W
16-Feb-2015	04:00	0.9	W
16-Feb-2015	05:00	0.9	SSW
16-Feb-2015	06:00	1	SW
16-Feb-2015	07:00	1.1	SSE
16-Feb-2015	08:00	1.3	WNW
		-	

16-Feb-2015	09:00	1.7	W
16-Feb-2015	10:00	1.5	WNW
16-Feb-2015	11:00	1.4	W
16-Feb-2015	12:00	1.5	N
16-Feb-2015	13:00	1.5	ENE
16-Feb-2015	14:00	1.1	NE
16-Feb-2015	15:00	1.5	WNW
16-Feb-2015	16:00	1.4	N
16-Feb-2015	17:00	0.8	NNE
16-Feb-2015	18:00	1	N
16-Feb-2015	19:00	0.4	NNE
16-Feb-2015	20:00	0.1	NE
16-Feb-2015	21:00	0.8	NNE
16-Feb-2015	22:00	0.9	NNE
16-Feb-2015	23:00	0.1	NNE
17-Feb-2015	00:00	0.1	ENE
17-Feb-2015	01:00	0.6	NE
17-Feb-2015	02:00	0.7	N
17-Feb-2015	03:00	0.1	N
17-Feb-2015	04:00	0.1	N
17-Feb-2015	05:00	0.3	NE
17-Feb-2015	06:00	0.6	NE
17-Feb-2015	07:00	0.4	NE
17-Feb-2015	08:00	0.1	NE
17-Feb-2015	09:00	0.1	S
17-Feb-2015	10:00	0.4	SE
17-Feb-2015	11:00	0.6	E
17-Feb-2015	12:00	0.4	SSW
17-Feb-2015	13:00	1.1	WNW
17-Feb-2015	14:00	0.9	ENE
17-Feb-2015	15:00	1.5	NW
17-Feb-2015	16:00	1.7	NE
17-Feb-2015	17:00	0.8	ENE
17-Feb-2015	18:00	0.7	E
17-Feb-2015	19:00	0.8	E
17-Feb-2015	20:00	0.3	NNE
17-Feb-2015	21:00	0.1	NE
	<u>.i</u>	1	į.

17-Feb-2015	22:00	0.3	NNE
17-Feb-2015	23:00	0.1	NNE
18-Feb-2015	00:00	0.5	NNE
18-Feb-2015	01:00	0.5	NE
18-Feb-2015	02:00	0.9	NE
18-Feb-2015	03:00	0.9	NE
18-Feb-2015	04:00	0.2	NE
18-Feb-2015	05:00	0.4	NE
18-Feb-2015	06:00	2	ENE
18-Feb-2015	07:00	1.7	ENE
18-Feb-2015	08:00	1.1	ENE
18-Feb-2015	09:00	1.4	N
18-Feb-2015	10:00	2	N
18-Feb-2015	11:00	1.5	NNE
18-Feb-2015	12:00	1.4	ENE
18-Feb-2015	13:00	1.7	ENE
18-Feb-2015	14:00	1.5	ENE
18-Feb-2015	15:00	1	NE
18-Feb-2015	16:00	1.1	NE
18-Feb-2015	17:00	1	ENE
18-Feb-2015	18:00	1.5	ENE
18-Feb-2015	19:00	2.2	NE
18-Feb-2015	20:00	2.2	NNE
18-Feb-2015	21:00	2.8	NE
18-Feb-2015	22:00	2.8	NNE
18-Feb-2015	23:00	2.8	ENE
19-Feb-2015	00:00	3.3	ENE
19-Feb-2015	01:00	2.4	NE
19-Feb-2015	02:00	2.5	NE
19-Feb-2015	03:00	1.8	N
19-Feb-2015	04:00	1.8	NNE
19-Feb-2015	05:00	2	N
19-Feb-2015	06:00	1.7	N
19-Feb-2015	07:00	1.7	WNW
19-Feb-2015	08:00	2.1	N
19-Feb-2015	09:00	2.2	W
19-Feb-2015	10:00	2.8	W
	1	1	

19-Feb-2015 11:00 3.4 SSW 19-Feb-2015 12:00 3.4 SSW 19-Feb-2015 13:00 3.9 WSW 19-Feb-2015 14:00 3.7 SW 19-Feb-2015 15:00 3.4 W 19-Feb-2015 15:00 3.4 W 19-Feb-2015 16:00 3.7 NNE 19-Feb-2015 16:00 3.7 NNE 19-Feb-2015 17:00 4.1 NE 19-Feb-2015 18:00 2.7 NNE 19-Feb-2015 19:00 2.8 ENE 19-Feb-2015 20:00 1.7 ENE 19-Feb-2015 20:00 2.2 ENE 19-Feb-2015 22:00 2.2 ENE 19-Feb-2015 22:00 2.2 ENE 19-Feb-2015 23:00 2.2 ENE 20-Feb-2015 00:00 1.8 ESE 20-Feb-2015 00:00 1.4 N 20-Feb-2015 00:00 1.5 E 20-Feb-2015 00:00 1.5 N 20-Feb-2015 00:00 1.7 E 20-Feb-2015 00:00 1.5 N 20-Feb-2015 00:00 1.5 N 20-Feb-2015 00:00 1.5 E 20-Feb-2015 00:00 1.7 E 20-Feb-2015 00:00 1.7 NE 20-Feb-2015 00:00 1.4 E 20-Feb-2015 00:00 1.4 E 20-Feb-2015 00:00 1.5 E 20-Feb-2015 00:00 1.5 E 20-Feb-2015 00:00 1.4 N 20-Feb-2015 00:00 1.5 E 20-Feb-2015 00:00 1.5 E 20-Feb-2015 00:00 1.5 E 20-Feb-2015 00:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 10:00 1.7 ENE 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 11:00 1.8 N 20-Feb-2015 11:00 1.8 N 20-Feb-2015 11:00 1.8 N 20-Feb-2015 11:00 1.9 ENE 20-Feb-2015 11:00 0.0 ENE 20-Feb-2015 11:10 0.0 ENE 20-Feb-2015 11:00 0.0 ENE 20-Feb-2015 11:00 0.0 ENE	<u> </u>	T	T	<u></u>
19-Feb-2015 13:00 3.9 WSW 19-Feb-2015 14:00 3.7 SW 19-Feb-2015 15:00 3.4 W 19-Feb-2015 16:00 3.7 NNE 19-Feb-2015 16:00 3.7 NNE 19-Feb-2015 17:00 4.1 NE 19-Feb-2015 18:00 2.7 NNE 19-Feb-2015 19:00 2.8 ENE 19-Feb-2015 20:00 1.7 ENE 19-Feb-2015 21:00 2 ENE 19-Feb-2015 22:00 2.2 ENE 19-Feb-2015 23:00 2.2 ENE 20-Feb-2015 20:00 1.8 ESE 20-Feb-2015 00:00 1.8 ESE 20-Feb-2015 00:00 1.4 N 20-Feb-2015 00:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Fe	19-Feb-2015	11:00	3	W
19-Feb-2015 14:00 3.7 SW 19-Feb-2015 15:00 3.4 W 19-Feb-2015 16:00 3.7 NNE 19-Feb-2015 17:00 4.1 NE 19-Feb-2015 18:00 2.7 NNE 19-Feb-2015 19:00 2.8 ENE 19-Feb-2015 20:00 1.7 ENE 19-Feb-2015 21:00 2 ENE 19-Feb-2015 22:00 2.2 ENE 19-Feb-2015 23:00 2.2 ENE 19-Feb-2015 23:00 2.2 ENE 20-Feb-2015 00:00 1.8 ESE 20-Feb-2015 00:00 1.4 N 20-Feb-2015 00:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-20	19-Feb-2015	12:00	3.4	SSW
19-Feb-2015 15:00 3.4 W 19-Feb-2015 16:00 3.7 NNE 19-Feb-2015 17:00 4.1 NE 19-Feb-2015 18:00 2.7 NNE 19-Feb-2015 19:00 2.8 ENE 19-Feb-2015 20:00 1.7 ENE 19-Feb-2015 21:00 2 ENE 19-Feb-2015 22:00 2.2 ENE 19-Feb-2015 23:00 2.2 ENE 19-Feb-2015 23:00 2.2 ENE 20-Feb-2015 00:00 1.8 ESE 20-Feb-2015 00:00 1.8 ESE 20-Feb-2015 00:00 1.4 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2	19-Feb-2015	13:00	3.9	WSW
19-Feb-2015 16:00 3.7 NNE 19-Feb-2015 17:00 4.1 NE 19-Feb-2015 18:00 2.7 NNE 19-Feb-2015 19:00 2.8 ENE 19-Feb-2015 20:00 1.7 ENE 19-Feb-2015 21:00 2 ENE 19-Feb-2015 22:00 2.2 ENE 19-Feb-2015 23:00 2.2 ENE 20-Feb-2015 00:00 1.8 ESE 20-Feb-2015 01:00 1.4 N 20-Feb-2015 02:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 06:00 1.4 N 20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015	19-Feb-2015	14:00	3.7	SW
19-Feb-2015 17:00 4.1 NE 19-Feb-2015 18:00 2.7 NNE 19-Feb-2015 19:00 2.8 ENE 19-Feb-2015 20:00 1.7 ENE 19-Feb-2015 21:00 2 ENE 19-Feb-2015 22:00 2.2 ENE 19-Feb-2015 23:00 2.2 ENE 20-Feb-2015 00:00 1.8 ESE 20-Feb-2015 01:00 1.4 N 20-Feb-2015 02:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 06:00 1.4 E 20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 <td>19-Feb-2015</td> <td>15:00</td> <td>3.4</td> <td>W</td>	19-Feb-2015	15:00	3.4	W
19-Feb-2015 18:00 2.7 NNE 19-Feb-2015 19:00 2.8 ENE 19-Feb-2015 20:00 1.7 ENE 19-Feb-2015 21:00 2 ENE 19-Feb-2015 22:00 2.2 ENE 19-Feb-2015 23:00 2.2 ENE 20-Feb-2015 00:00 1.8 ESE 20-Feb-2015 01:00 1.4 N 20-Feb-2015 02:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 07:00 1.4 E 20-Feb-2015 08:00 1.7 NE 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 <td>19-Feb-2015</td> <td>16:00</td> <td>3.7</td> <td>NNE</td>	19-Feb-2015	16:00	3.7	NNE
19-Feb-2015 19:00 2.8 ENE 19-Feb-2015 20:00 1.7 ENE 19-Feb-2015 21:00 2 ENE 19-Feb-2015 22:00 2.2 ENE 19-Feb-2015 23:00 2.2 ENE 20-Feb-2015 00:00 1.8 ESE 20-Feb-2015 01:00 1.4 N 20-Feb-2015 02:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 07:00 1.4 E 20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015	19-Feb-2015	17:00	4.1	NE
19-Feb-2015 20:00 1.7 ENE 19-Feb-2015 21:00 2 ENE 19-Feb-2015 22:00 2.2 ENE 19-Feb-2015 23:00 2.2 ENE 20-Feb-2015 00:00 1.8 ESE 20-Feb-2015 01:00 1.4 N 20-Feb-2015 02:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 07:00 1.4 E 20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 13:00 1.8 N 20-Feb-2015	19-Feb-2015	18:00	2.7	NNE
19-Feb-2015 21:00 2 ENE 19-Feb-2015 22:00 2.2 ENE 19-Feb-2015 23:00 2.2 ENE 20-Feb-2015 00:00 1.8 ESE 20-Feb-2015 01:00 1.4 N 20-Feb-2015 02:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 07:00 1.4 E 20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 13:00 1.8 N 20-Feb-2015 15:00 1.3 NE 20-Feb-2015	19-Feb-2015	19:00	2.8	ENE
19-Feb-2015 22:00 2.2 ENE 19-Feb-2015 23:00 2.2 ENE 20-Feb-2015 00:00 1.8 ESE 20-Feb-2015 01:00 1.4 N 20-Feb-2015 02:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 07:00 1.4 E 20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015	19-Feb-2015	20:00	1.7	ENE
19-Feb-2015 23:00 2.2 ENE 20-Feb-2015 00:00 1.8 ESE 20-Feb-2015 01:00 1.4 N 20-Feb-2015 02:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 07:00 1.4 E 20-Feb-2015 08:00 1.7 NE 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 <td>19-Feb-2015</td> <td>21:00</td> <td>2</td> <td>ENE</td>	19-Feb-2015	21:00	2	ENE
20-Feb-2015 00:00 1.8 ESE 20-Feb-2015 01:00 1.4 N 20-Feb-2015 02:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 07:00 1.4 E 20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 12:00 2 N 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 18:00 1.3 N 20-Feb-2015	19-Feb-2015	22:00	2.2	ENE
20-Feb-2015 01:00 1.4 N 20-Feb-2015 02:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 07:00 1.4 E 20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 12:00 2 N 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 19:00 1.4 <td>19-Feb-2015</td> <td>23:00</td> <td>2.2</td> <td>ENE</td>	19-Feb-2015	23:00	2.2	ENE
20-Feb-2015 02:00 1.5 N 20-Feb-2015 03:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 07:00 1.4 E 20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 12:00 2 N 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015	20-Feb-2015	00:00	1.8	ESE
20-Feb-2015 03:00 1.5 N 20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 07:00 1.4 E 20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 12:00 2 N 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4<	20-Feb-2015	01:00	1.4	N
20-Feb-2015 04:00 2 E 20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 07:00 1.4 E 20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 12:00 2 N 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	02:00	1.5	N
20-Feb-2015 05:00 1.3 E 20-Feb-2015 06:00 1.5 E 20-Feb-2015 07:00 1.4 E 20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 12:00 2 N 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	03:00	1.5	N
20-Feb-2015 06:00 1.5 E 20-Feb-2015 07:00 1.4 E 20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 12:00 2 N 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	04:00	2	Е
20-Feb-2015 07:00 1.4 E 20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 12:00 2 N 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	05:00	1.3	Е
20-Feb-2015 08:00 1.4 N 20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 12:00 2 N 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	06:00	1.5	Е
20-Feb-2015 09:00 1.7 NE 20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 12:00 2 N 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	07:00	1.4	Е
20-Feb-2015 10:00 2 N 20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 12:00 2 N 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	08:00	1.4	N
20-Feb-2015 11:00 1.7 ENE 20-Feb-2015 12:00 2 N 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	09:00	1.7	NE
20-Feb-2015 12:00 2 N 20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	10:00	2	N
20-Feb-2015 13:00 1.8 N 20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	11:00	1.7	ENE
20-Feb-2015 14:00 1.5 ENE 20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	12:00	2	N
20-Feb-2015 15:00 1.3 NE 20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	13:00	1.8	N
20-Feb-2015 16:00 1.5 ENE 20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	14:00	1.5	ENE
20-Feb-2015 17:00 1.8 NNW 20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	15:00	1.3	NE
20-Feb-2015 18:00 1.3 N 20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	16:00	1.5	ENE
20-Feb-2015 19:00 1.4 ENE 20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	17:00	1.8	NNW
20-Feb-2015 20:00 0.7 E 20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	18:00	1.3	N
20-Feb-2015 21:00 0.4 W 20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	19:00	1.4	ENE
20-Feb-2015 22:00 0.7 WSW	20-Feb-2015	20:00	0.7	Е
	20-Feb-2015	21:00	0.4	W
20-Feb-2015 23:00 1.1 SW	20-Feb-2015	22:00	0.7	WSW
	20-Feb-2015	23:00	1.1	SW

21-Feb-2015	00:00	0.9	N
21-Feb-2015	01:00	0.8	S
21-Feb-2015	02:00	1.3	WSW
21-Feb-2015	03:00	1	WSW
21-Feb-2015	04:00	1.4	NNW
21-Feb-2015	05:00	0.9	WNW
21-Feb-2015	06:00	1.5	Ν
21-Feb-2015	07:00	1.1	N
21-Feb-2015	08:00	1.4	SSW
21-Feb-2015	09:00	1.4	WSW
21-Feb-2015	10:00	1.8	NNE
21-Feb-2015	11:00	2.4	WNW
21-Feb-2015	12:00	2.1	W
21-Feb-2015	13:00	1.5	WSW
21-Feb-2015	14:00	1.7	SSW
21-Feb-2015	15:00	1.7	W
21-Feb-2015	16:00	1.4	SSW
21-Feb-2015	17:00	1.2	SSW
21-Feb-2015	18:00	1.5	W
21-Feb-2015	19:00	1.1	W
21-Feb-2015	20:00	1.3	SSW
21-Feb-2015	21:00	1	NW
21-Feb-2015	22:00	1.1	W
21-Feb-2015	23:00	1	NNW
22-Feb-2015	00:00	0.7	W
22-Feb-2015	01:00	0.3	W
22-Feb-2015	02:00	0.6	NE
22-Feb-2015	03:00	0.4	SW
22-Feb-2015	04:00	0.8	SSW
22-Feb-2015	05:00	0.8	SW
22-Feb-2015	06:00	0.8	WNW
22-Feb-2015	07:00	0.3	NE
22-Feb-2015	08:00	0.4	WNW
22-Feb-2015	09:00	0.1	ENE
22-Feb-2015	10:00	0.6	ENE
22-Feb-2015	11:00	0.7	ENE
22-Feb-2015	12:00	0.9	N

22-Feb-2015	13:00	1.1	ENE
22-Feb-2015	14:00	0.8	ENE
22-Feb-2015	15:00	0.9	N
22-Feb-2015	16:00	0.9	NE
22-Feb-2015	17:00	1.1	NE
22-Feb-2015	18:00	1	NE
22-Feb-2015	19:00	0.7	NNE
22-Feb-2015	20:00	0.4	NNE
22-Feb-2015	21:00	0.3	NE
22-Feb-2015	22:00	0.1	NNE
22-Feb-2015	23:00	0.1	NE
23-Feb-2015	00:00	0.2	N
23-Feb-2015	01:00	0.1	ENE
23-Feb-2015	02:00	0.2	NE
23-Feb-2015	03:00	0.1	NE
23-Feb-2015	04:00	0.1	NE
23-Feb-2015	05:00	0.1	ENE
23-Feb-2015	06:00	0.1	ENE
23-Feb-2015	07:00	0.3	SE
23-Feb-2015	08:00	1.3	W
23-Feb-2015	09:00	1.8	WNW
23-Feb-2015	10:00	1.7	S
23-Feb-2015	11:00	2	NE
23-Feb-2015	12:00	1.7	Е
23-Feb-2015	13:00	1.7	SSW
23-Feb-2015	14:00	1.7	ESE
23-Feb-2015	15:00	1.8	NNE
23-Feb-2015	16:00	1.4	NE
23-Feb-2015	17:00	1	NE
23-Feb-2015	18:00	1.1	Е
23-Feb-2015	19:00	0.5	ENE
23-Feb-2015	20:00	0.4	N
23-Feb-2015	21:00	0.3	E
23-Feb-2015	22:00	1.3	WSW
23-Feb-2015	23:00	1.1	WNW
24-Feb-2015	00:00	1.4	W
24-Feb-2015	01:00	1.3	SSW
	•	•	•

24-Feb-2015	02:00	1.3	S
24-Feb-2015	03:00	1.3	S
24-Feb-2015	04:00	1.3	W
24-Feb-2015	05:00	1	SSW
24-Feb-2015	06:00	1.1	SW
24-Feb-2015	07:00	0.9	SW
24-Feb-2015	08:00	0.9	SSW
24-Feb-2015	09:00	1.3	WSW
24-Feb-2015	10:00	1.5	SW
24-Feb-2015	11:00	1.7	SW
24-Feb-2015	12:00	2	SSW
24-Feb-2015	13:00	2.2	SW
24-Feb-2015	14:00	1.8	WSW
24-Feb-2015	15:00	1.7	WNW
24-Feb-2015	16:00	1.5	SW
24-Feb-2015	17:00	1.3	SSW
24-Feb-2015	18:00	0.7	WNW
24-Feb-2015	19:00	0.5	W
24-Feb-2015	20:00	1	W
24-Feb-2015	21:00	0.5	WNW
24-Feb-2015	22:00	0.8	WNW
24-Feb-2015	23:00	1.1	WNW
25-Feb-2015	00:00	1.1	WNW
25-Feb-2015	01:00	1.5	WNW
25-Feb-2015	02:00	1.3	WNW
25-Feb-2015	03:00	1.1	W
25-Feb-2015	04:00	1.5	WNW
25-Feb-2015	05:00	1	W
25-Feb-2015	06:00	1.7	N
25-Feb-2015	07:00	1.4	NNE
25-Feb-2015	08:00	2	WNW
25-Feb-2015	09:00	1.8	SE
25-Feb-2015	10:00	1.4	SSW
25-Feb-2015	11:00	1.4	SSW
25-Feb-2015	12:00	1.7	S
25-Feb-2015	13:00	1.4	WNW
25-Feb-2015	14:00	1.4	WSW
L		i e	<u> </u>

25-Feb-2015	05 5 1 0045	45.00	4.5	0014
25-Feb-2015	25-Feb-2015	15:00	1.5	SSW
25-Feb-2015				
25-Feb-2015	25-Feb-2015	17:00		
25-Feb-2015 20:00 1 SW 25-Feb-2015 21:00 1.3 SW 25-Feb-2015 22:00 1.5 SW 25-Feb-2015 23:00 1.7 WSW 26-Feb-2015 00:00 1.7 WSW 26-Feb-2015 01:00 2 WSW 26-Feb-2015 02:00 1.4 WSW 26-Feb-2015 03:00 1.4 WSW 26-Feb-2015 04:00 1.5 W 26-Feb-2015 05:00 1.5 WSW 26-Feb-2015 06:00 1.8 WSW 26-Feb-2015 07:00 2.1 SW 26-Feb-2015 08:00 2.2 SW 26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 10:00 1.7 WNW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 14:00 1.5 SW 2	25-Feb-2015	18:00	1.3	WNW
25-Feb-2015 21:00 1.3 SW 25-Feb-2015 22:00 1.5 SW 25-Feb-2015 23:00 1.7 WSW 26-Feb-2015 00:00 1.7 WSW 26-Feb-2015 01:00 2 WSW 26-Feb-2015 02:00 1.4 WSW 26-Feb-2015 03:00 1.4 WSW 26-Feb-2015 04:00 1.5 W 26-Feb-2015 05:00 1.5 WSW 26-Feb-2015 06:00 1.8 WSW 26-Feb-2015 07:00 2.1 SW 26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 10:00 1.7 SW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 15:00 2 SW	25-Feb-2015	19:00	1	SW
25-Feb-2015 22:00 1.5 SW 25-Feb-2015 23:00 1.7 WSW 26-Feb-2015 00:00 1.7 WSW 26-Feb-2015 01:00 2 WSW 26-Feb-2015 02:00 1.4 WSW 26-Feb-2015 03:00 1.4 WSW 26-Feb-2015 04:00 1.5 WSW 26-Feb-2015 05:00 1.5 WSW 26-Feb-2015 06:00 1.8 WSW 26-Feb-2015 07:00 2.1 SW 26-Feb-2015 08:00 2.2 SW 26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 10:00 1.7 SW 26-Feb-2015 10:00 1.7 SW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 15:00 2 SW <td< td=""><td>25-Feb-2015</td><td>20:00</td><td>1</td><td>SW</td></td<>	25-Feb-2015	20:00	1	SW
25-Feb-2015 23:00 1.7 WSW 26-Feb-2015 00:00 1.7 WSW 26-Feb-2015 01:00 2 WSW 26-Feb-2015 02:00 1.4 WSW 26-Feb-2015 03:00 1.4 WSW 26-Feb-2015 04:00 1.5 W 26-Feb-2015 05:00 1.5 WSW 26-Feb-2015 06:00 1.8 WSW 26-Feb-2015 07:00 2.1 SW 26-Feb-2015 08:00 2.2 SW 26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 10:00 1.7 SW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW	25-Feb-2015	21:00	1.3	SW
26-Feb-2015 00:00 1.7 WSW 26-Feb-2015 01:00 2 WSW 26-Feb-2015 02:00 1.4 WSW 26-Feb-2015 03:00 1.4 WSW 26-Feb-2015 04:00 1.5 W 26-Feb-2015 05:00 1.5 WSW 26-Feb-2015 06:00 1.8 WSW 26-Feb-2015 07:00 2.1 SW 26-Feb-2015 08:00 2.2 SW 26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 10:00 1.7 WSW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 16:00 1.5 SW 2	25-Feb-2015	22:00	1.5	SW
26-Feb-2015 01:00 2 WSW 26-Feb-2015 02:00 1.4 WSW 26-Feb-2015 03:00 1.4 WSW 26-Feb-2015 04:00 1.5 W 26-Feb-2015 05:00 1.5 WSW 26-Feb-2015 06:00 1.8 WSW 26-Feb-2015 07:00 2.1 SW 26-Feb-2015 08:00 2.2 SW 26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 10:00 1.7 SW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 19:00 1.2 WSW 2	25-Feb-2015	23:00	1.7	WSW
26-Feb-2015 02:00 1.4 WSW 26-Feb-2015 03:00 1.4 WSW 26-Feb-2015 04:00 1.5 W 26-Feb-2015 05:00 1.5 WSW 26-Feb-2015 06:00 1.8 WSW 26-Feb-2015 07:00 2.1 SW 26-Feb-2015 08:00 2.2 SW 26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 10:00 1.7 SW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW <td< td=""><td>26-Feb-2015</td><td>00:00</td><td>1.7</td><td>WSW</td></td<>	26-Feb-2015	00:00	1.7	WSW
26-Feb-2015 03:00 1.4 WSW 26-Feb-2015 04:00 1.5 W 26-Feb-2015 05:00 1.5 WSW 26-Feb-2015 06:00 1.8 WSW 26-Feb-2015 07:00 2.1 SW 26-Feb-2015 08:00 2.2 SW 26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 10:00 1.7 SW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 20:00<	26-Feb-2015	01:00	2	WSW
26-Feb-2015 04:00 1.5 W 26-Feb-2015 05:00 1.5 WSW 26-Feb-2015 06:00 1.8 WSW 26-Feb-2015 07:00 2.1 SW 26-Feb-2015 08:00 2.2 SW 26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 10:00 1.7 SW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 18:00 1 W 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb	26-Feb-2015	02:00	1.4	WSW
26-Feb-2015 05:00 1.5 WSW 26-Feb-2015 06:00 1.8 WSW 26-Feb-2015 07:00 2.1 SW 26-Feb-2015 08:00 2.2 SW 26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 10:00 1.7 SW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 19:00 1 W 26-Feb-2015 19:00 1 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-F	26-Feb-2015	03:00	1.4	WSW
26-Feb-2015 06:00 1.8 WSW 26-Feb-2015 07:00 2.1 SW 26-Feb-2015 08:00 2.2 SW 26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 10:00 1.7 SW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW <td< td=""><td>26-Feb-2015</td><td>04:00</td><td>1.5</td><td>W</td></td<>	26-Feb-2015	04:00	1.5	W
26-Feb-2015 07:00 2.1 SW 26-Feb-2015 08:00 2.2 SW 26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 10:00 1.7 SW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 18:00 1 W 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 <td>26-Feb-2015</td> <td>05:00</td> <td>1.5</td> <td>WSW</td>	26-Feb-2015	05:00	1.5	WSW
26-Feb-2015 08:00 2.2 SW 26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 10:00 1.7 SW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 18:00 1 W 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-	26-Feb-2015	06:00	1.8	WSW
26-Feb-2015 09:00 1.7 WNW 26-Feb-2015 10:00 1.7 SW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 18:00 1 W 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	07:00	2.1	SW
26-Feb-2015 10:00 1.7 SW 26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 18:00 1 W 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	08:00	2.2	SW
26-Feb-2015 11:00 1.7 WSW 26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 18:00 1 W 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	09:00	1.7	WNW
26-Feb-2015 12:00 1.8 WSW 26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 18:00 1 W 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	10:00	1.7	SW
26-Feb-2015 13:00 1.7 WSW 26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 18:00 1 W 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	11:00	1.7	WSW
26-Feb-2015 14:00 1.5 SW 26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 18:00 1 W 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	12:00	1.8	WSW
26-Feb-2015 15:00 2 SW 26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 18:00 1 W 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	13:00	1.7	WSW
26-Feb-2015 16:00 1.5 SW 26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 18:00 1 W 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	14:00	1.5	SW
26-Feb-2015 17:00 1.3 WNW 26-Feb-2015 18:00 1 W 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	15:00	2	SW
26-Feb-2015 18:00 1 W 26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	16:00	1.5	SW
26-Feb-2015 19:00 1.2 WSW 26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	17:00	1.3	WNW
26-Feb-2015 20:00 1.5 WSW 26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	18:00	1	W
26-Feb-2015 21:00 1.8 WSW 26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	19:00	1.2	WSW
26-Feb-2015 22:00 1.7 SW 26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	20:00	1.5	WSW
26-Feb-2015 23:00 1.8 SW 27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	21:00	1.8	WSW
27-Feb-2015 00:00 1.8 WSW 27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	22:00	1.7	SW
27-Feb-2015 01:00 1.2 SW 27-Feb-2015 02:00 1.3 WSW	26-Feb-2015	23:00	1.8	SW
27-Feb-2015 02:00 1.3 WSW	27-Feb-2015	00:00	1.8	WSW
	27-Feb-2015	01:00	1.2	SW
27-Feb-2015 03:00 0.9 SW	27-Feb-2015	02:00	1.3	WSW
	27-Feb-2015	03:00	0.9	SW

		T	
27-Feb-2015	04:00	1.1	SW
27-Feb-2015	05:00	0.3	SW
27-Feb-2015	06:00	0.1	SW
27-Feb-2015	07:00	0.1	SW
27-Feb-2015	08:00	0.2	SW
27-Feb-2015	09:00	0.2	W
27-Feb-2015	10:00	0.9	W
27-Feb-2015	11:00	0.9	W
27-Feb-2015	12:00	0.6	W
27-Feb-2015	13:00	0.9	WNW
27-Feb-2015	14:00	1	WNW
27-Feb-2015	15:00	0.5	W
27-Feb-2015	16:00	0.3	SW
27-Feb-2015	17:00	0.4	SW
27-Feb-2015	18:00	0.4	W
27-Feb-2015	19:00	1.2	W
27-Feb-2015	20:00	0.3	WNW
27-Feb-2015	21:00	0.4	W
27-Feb-2015	22:00	0.4	WNW
27-Feb-2015	23:00	0.6	WNW
28-Feb-2015	00:00	0.7	W
28-Feb-2015	01:00	0.4	W
28-Feb-2015	02:00	0.3	W
28-Feb-2015	03:00	0.3	W
28-Feb-2015	04:00	0.5	W
28-Feb-2015	05:00	0.4	WNW
28-Feb-2015	06:00	0.3	WNW
28-Feb-2015	07:00	0.4	WNW
28-Feb-2015	08:00	0.3	W
28-Feb-2015	09:00	0.5	WNW
28-Feb-2015	10:00	0.7	SSW
28-Feb-2015	11:00	0.8	SE
28-Feb-2015	12:00	1.5	W
28-Feb-2015	13:00	1.7	NNE
28-Feb-2015	14:00	1.8	SW
28-Feb-2015	15:00	1.8	SSW
28-Feb-2015	16:00	1.7	SSW

28-Feb-2015	17:00	1.1	W
28-Feb-2015	18:00	0.8	W
28-Feb-2015	19:00	0.8	WSW
28-Feb-2015	20:00	1.3	N
28-Feb-2015	21:00	1.2	N
28-Feb-2015	22:00	0.8	ENE
28-Feb-2015	23:00	1	ENE

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

Contract No. KL/2012/02 Kai Tak Development - Stage 3A Infrastructure at Former North Apron Area Tentative Impact Air and Noise Monitoring Schedule for February 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Feb	2-Feb	3-Feb	4-Fel	5-Feb	6-Feb	7-Feb
	1 hr TSP X3				1 hr TSP X3	
	Noise (M3, M4)			Noise (M9) 24 hr TSP		
8-Feb	9-Feb	10-Feb	11-Feb) 12-Feb	13-Feb	14-Feb
				1 hr TSP X3		
			Noise (M9) 24 hr TSP	Noise (M3, M4)		
15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb
			1 hr TSP X3			
		Noise (M9) 24 hr TSP	Noise (M3, M4)			
22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb
		1 hr TSP X3				
	Noise (M9) 24 hr TSP	Noise (M3, M4)			24 hr TSP	

Air Quality Monitoring Station

AM1(B) -Boundary of KTD/Outside Contractor's site office of Contract KL/2012/02 AM2 - Lee Kau Yan Memorial School

Noise Monitoring Station

M3 - Cognitio College

M4 - Lee Kau Yan Memorial School

M9 - Tak Long Estate

Contract No. KL/2012/02

Kai Tak Development - Stage 3A Infrastructure at Former North Apron Area **Tentative Impact Air and Noise Monitoring Schedule for March 2015**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Mar		3-Mar	4-Mar			6-Mar 7-Mar
	1 hr TSP X3				1 hr TSP X3	
	THE ISL AS				1 III 131 X3	
				Noise		
	Noise			(M9) 24 hr TSP		
	(M3, M4)			24 nr 18P		
8-Mar	9-Mar	10-Mar	11-Mar		12-Mar	3-Mar 14-Mar
				1 hr TSP X3		
				1 III 131 X3		
			Noise			
			(M9)	Noise		
			24 hr TSP	(M3, M4)		
15-Mar	16-Mar	17-Mar	18-Mar		19-Mar 2	20-Mar 21-Mar
			1 hr TSP X3			
			1 III 131 A3			
		Noise				
		(M9) 24 hr TSP	Noise			
		24 III 15P	(M3, M4)			
22-Mar	23-Mar	24-Mar	25-Mar		26-Mar 2	27-Mar 28-Mar
		1 hr TSP X3				
		I III ISF AS				
	Noise					
	(M9)	Noise				
	24 hr TSP	(M3, M4)			24 hr TSP	
29-Mar	30-Mar	31-Mar				
	1 hr TSP X3					
	Noise					
	(M3, M4)					
	a unfarassan airaumstanaas (advarsa ya					

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

Air Quality Monitoring Station

AM1(B) -Boundary of KTD/Outside Contractor's site office of Contract KL/2012/02 AM2 - Lee Kau Yan Memorial School

Noise Monitoring Station

M3 - Cognitio College

M4 - Lee Kau Yan Memorial School M9 - Tak Long Estate

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

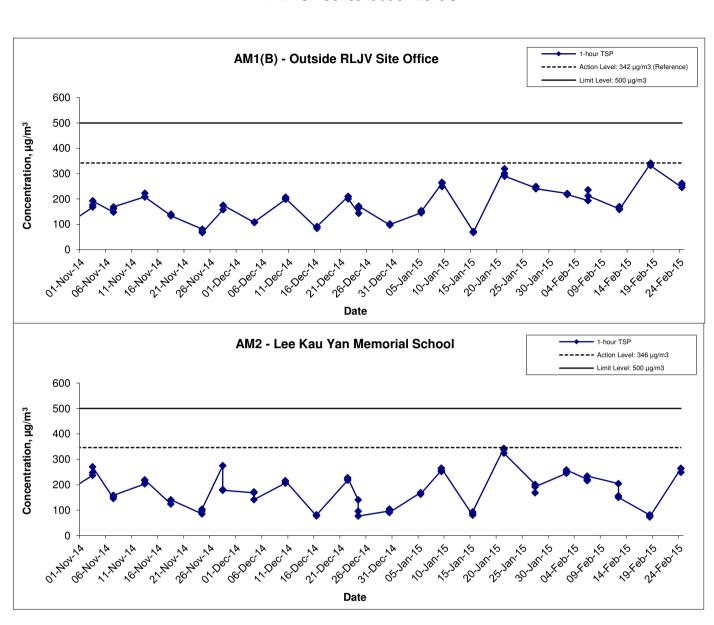
Appendix E - 1-hour TSP Monitoring Results

Location AM1(B) - Outside F	RLJV Site Office	
Date	Time	Weather	Particulate Concentration (μg/m3)
2-Feb-15	9:00	Sunny	221.4
2-Feb-15	10:00	Sunny	218.0
2-Feb-15	11:00	Sunny	217.9
6-Feb-15	9:00	Cloudy	193.5
6-Feb-15	10:00	Cloudy	236.0
6-Feb-15	11:00	Cloudy	212.5
12-Feb-15	9:00	Sunny	161.0
12-Feb-15	10:00	Sunny	170.2
12-Feb-15	11:00	Sunny	158.0
18-Feb-15	9:00	Cloudy	339.5
18-Feb-15	10:00	Cloudy	341.4
18-Feb-15	11:00	Cloudy	332.0
24-Feb-15	13:00	Cloudy	245.7
24-Feb-15	14:00	Cloudy	261.6
24-Feb-15	15:00	Cloudy	254.9
		Average	237.6
		Maximum	341.4
		Minimum	158.0

Location AM2 -	Location AM2 - Lee Kau Yan Memorial School										
Date	Time	Weather	Particulate Concentration (μg/m3)								
2-Feb-15	8:55	Sunny	244.8								
2-Feb-15	9:55	Sunny	252.0								
2-Feb-15	10:55	Sunny	258.0								
6-Feb-15	9:00	Cloudy	220.9								
6-Feb-15	10:00	Cloudy	215.8								
6-Feb-15	11:00	Cloudy	234.1								
12-Feb-15	13:00	Sunny	204.2								
12-Feb-15	14:00	Sunny	156.4								
12-Feb-15	15:00	Sunny	150.0								
18-Feb-15	9:00	Cloudy	81.2								
18-Feb-15	10:00	Cloudy	77.7								
18-Feb-15	11:00	Cloudy	73.0								
24-Feb-15	9:00	Cloudy	263.6								
24-Feb-15	10:00	Cloudy	248.8								
24-Feb-15	11:00	Cloudy	264.3								
		Average	196.3								
		Maximum	264.3								
		Minimum	73.0								

MA13043/App E - 1hr TSP Cinotech

1-hr TSP Concentration Levels



Title Contract No. KL/2012/02
Kai Tak Development - Stage 3A Infrastructure at Former North Apron Area

Graphical Presentation of 1-hour TSP Monitoring Results

Scale Project

N.T.S No. MA13043

Date Feb 15

Feb 15

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - 24-hour TSP Monitoring Results

Location AM1(B) - Outside RLJV site office (KL/2012/02)

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elaps	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	(m ³ /min)	(m^3)	$(\mu g/m^3)$
5-Feb-15	Sunny	285.4	772.9	3.1973	3.3510	0.1537	4308.5	4332.5	24.0	1.21	1.21	1.21	1748.7	87.9
11-Feb-15	Sunny	288.7	767.1	3.2134	3.4166	0.2032	4332.5	4356.5	24.0	1.20	1.20	1.20	1732.8	117.3
17-Feb-15	Cloudy	290.9	766.1	3.2847	3.4571	0.1724	4356.5	4380.5	24.0	1.20	1.20	1.20	1725.4	99.9
23-Feb-15	Cloudy	291.7	765.8	3.2200	3.3192	0.0992	4380.5	4404.5	24.0	1.21	1.21	1.21	1739.6	57.0
27-Feb-15	Cloudy	291.6	765.5	3.2024	3.2791	0.0767	4404.5	4428.5	24.0	1.21	1.21	1.21	1739.7	44.1
													Min	44.1
													Max	117.3
													Average	81.2

Location AM2 - Lee Kau Yan Memorial School

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	(m ³ /min)	(m^3)	$(\mu g/m^3)$
5-Feb-15	Sunny	285.4	772.5	3.1666	3.3813	0.2147	14352.4	14376.4	24.0	1.22	1.22	1.22	1757.3	122.2
11-Feb-15	Sunny	288.5	767.9	3.2263	3.4668	0.2405	14376.4	14400.4	24.0	1.21	1.21	1.21	1743.7	137.9
17-Feb-15	Cloudy	290.9	766.3	3.2391	3.4732	0.2341	14400.4	14424.4	24.0	1.21	1.20	1.21	1735.4	134.9
23-Feb-15	Cloudy	291.8	765.3	3.2036	3.3317	0.1281	14424.4	14448.4	24.0	1.21	1.21	1.21	1744.7	73.4
27-Feb-15	Cloudy	291.8	765.7	3.1997	3.3337	0.1340	14448.4	14472.4	24.0	1.21	1.21	1.21	1745.1	76.8
													Min	73.4
													Max	137.9
													Average	109.0

MA13043/App F - 24hr TSP

24-hr TSP Concentration Levels



Title	Contract No. KL/2012/02	Scale		Project		
	Kai Tak Development - Stage 3A Infrastructure at Former					
	North Apron Area		N.T.S	No.	MA13043	CINOTECH
		Date		Appendi	ix	
	Graphical Presentation of 24-hour TSP Monitoring Results		Jan 15		F	C1 . (C . (C

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

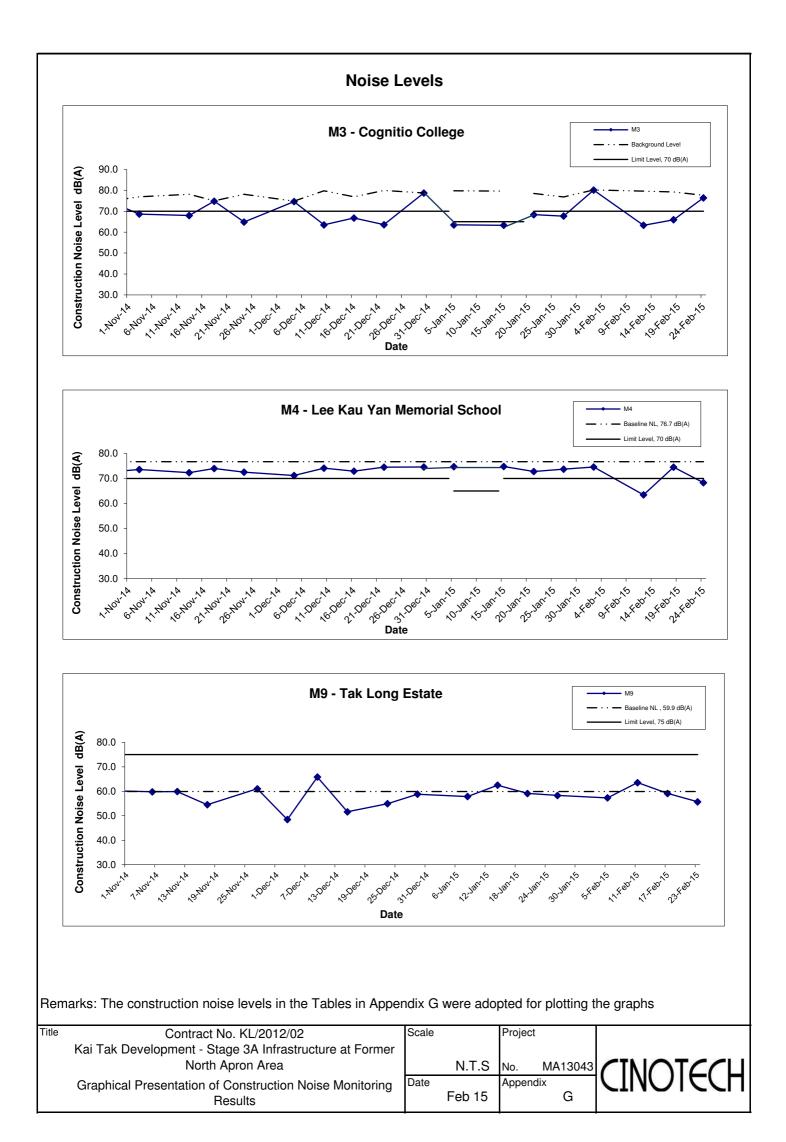
Appendix G - Noise Monitoring Results

Location M3 -	Location M3 - Cognitio College										
			Uni	it: dB (A) (30-min)							
Date	Time	Weather	Measured Noise Level Back			Background Noise	Construction Noise Level				
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}				
2-Feb-15	15:00	Sunny	80.1	81.7	77.6	80.2	80.1 Measured ≤ Background				
12-Feb-15	15:00	Sunny	79.7	81.6	77.0	79.6	63.3				
18-Feb-15	15:00	Cloudy	79.4	81.5	76.7	79.2	65.9				
24-Feb-15	15:01	Cloudy	76.4	78.8	69.7	77.6	76.4 Measured ≤ Background				

Location M4 -	Location M4 - Lee Kau Yan Memorial School							
			Unit: dB (A) (30-min)					
Date	Time	Weather	Meas	sured Noise	Level	Baseline Level	Construction Noise Level	
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	
2-Feb-15	9:00	Sunny	74.6	76.5	70.7		74.6 Measured ≤ Baseline	
12-Feb-15	13:15	Sunny	76.9	79.2	73.5	70.7	63.4	
18-Feb-15	9:00	Cloudy	74.5	76.2	70.3	$76.7 74.5 \text{ Measured} \leq \text{Base}$		
24-Feb-15	9:00	Cloudy	68.3	70.6	59.4		68.3 Measured ≦ Baseline	

Location M9 -	Location M9 - Tak Long Estate						
				Unit: dB (A) (30-min)			
Date	Time	Weather	Meas	sured Noise	Level	Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}
5-Feb-15	9:15	Cloudy	61.8	63.9	59.0		57.3
11-Feb-15	10:30	Cloudy	65.1	67.4	62.3	50.0	63.5
17-Feb-15	9:15	Cloudy	59.1	60.2	57.0	59.9 59.1 Measured ≦ Bas	
23-Feb-15	14:25	Cloudy	55.7	57.3	53.3		55.7 Measured \leq Baseline

MA13043/App G - Noise Cinotech



APPENDIX H SUMMARY OF EXCEEDANCE

Contract No. KL/2012/02 Kai Tak Development –Stage 3A Infrastructure at Former North Apron Area

Appendix H – Summary of Exceedance

Exceedance Report for Contract No. KL/2012/02

- (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	150204
Date	4 February 2015
Time	14:00 – 15:30

Non-Compliance	Related Item No.
None identified	-
Remarks/Observations	Related Item No.
B. Water Quality	
No environmental deficiency was identified during site inspection.	
C Air Quality	
Dusty stockpile should be properly covered to suppress dust generation. (at Kai Tak area and near Tsat Po Street)	C 7
Sand deposited under water barrier near entrance of car park should be removed. (near Tsat Po Street)	C 3
D. Noise	
Noise mitigation measure should be improved for breaker at Prince Edward Road East.	D 5
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.: 150127), items 150127-R01 and 150127-R02 were found outstanding and remarked as 150204-R03 and 150204-R01 respectively. Review will be needed during next audit section.	
	Remarks/Observations B. Water Quality No environmental deficiency was identified during site inspection. C. Air Quality Dusty stockpile should be properly covered to suppress dust generation. (at Kai Tak area and near Tsat Po Street) Sand deposited under water barrier near entrance of car park should be removed. (near Tsat Po Street) D. Noise Noise mitigation measure should be improved for breaker at Prince Edward Road East. 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.: 150127), items 150127-R01 and 150127-R02 were found outstanding and remarked as 150204-R03 and 150204-R01

	Name	Signature	Date
Recorded by	Jason Lai	La	4 February 2015
Checked by	Dr. Priscilla Choy	WF	4 February 2015

Checklist Reference Number	150213
Date	13 February 2015
Time	14:30 – 16:15

Dof No	Non Compliance	Related Item No.
Ref. No.	Non-Compliance	Hem 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	
140213-R01	Empty cement bags should be placed inside tarpaulin coverage and regularly removed (near KTOB).	E liii
	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.: 150204), all environmental deficiencies have been rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Jason Lai	de	13 February 2015
Checked by	Dr. Priscilla Choy	WI	13 February 2015
			•

Checklist Reference Number	150216	
Date	16 February 2015	
Time	13:30 – 14:00	

Ref. No.	Non-Compliance	Related Item No.
_	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
150216-R01	Unpaved area should be covered with impervious sheet where practicable to reduce dust generation during holiday.	C 6
	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.: 150213), all environmental deficiencies have been rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Jason Lai	Van	16 February 2015
Checked by	Dr. Priscilla Choy	WI	16 February 2015

Checklist Reference Number	150225
Date	25 February 2015
Time	14:00 – 14:45

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
150225-O01	Mud and silty trail at work area near KTOB should be removed.	C 3
150225-R02	Dusty stockpile and debris at work area adjacent to Concorde Road should be properly covered.	C 7
	COVOICU.	
	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.: 150216), all environmental deficiencies have been rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Jason Lai	O'an	25 February 2015
Checked by	Dr. Priscilla Choy	NL	25 February 2015

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	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	Check monitoring data submitted	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	Check monitoring data submitted	Confirm receipt of notification	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	Check monitoring data submitted	Confirm receipt of notification	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;	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	Check final design conforms to	Check report. Recommend remedial design if	Undertake remedial design if necessary	
	the requirements of EP and prepare report.	remedial design if necessary		
Non-conformity on one occasion	1. Identify Source 2. Inform IEC and ER 3. Discuss remedial actions with IEC, ER and Contractor 4. 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	Identify Source Inform IEC and	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 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. 	^
Construction Dust	 Any vehicle with an open load carrying area should have properly fitted side and tail boards. 	٨
Construction Dust	 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. 	^
	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. Onsite 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. 	۸
 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. 	٨
 Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. 	*
• <u>DWFI compound for JVBC</u> : a DWFI compound is proposed at the downstream of JVC to contain pollution in drainage systems entering the KTAC and KTTS by interception facilities until the ultimate removal of the pollution sources. Tidal barriers and desiliting facilities will form part of the compounds to prevent any accumulation of sediment within the downstream section of JVBC and hence fully mitigate the potential odour emissions from the headspace of JVBC near the existing discharge locations. The odour generating operations within the proposed desilting compound will be fully enclosed and the odorous air will be collected and treated by high	N/A

efficiency deodorizers before discharge to the atmosphere.	
Desilting compound for KTN: Two desilting compounds are proposed for KTN (at Site 1D6 and Site 1P1) to contain pollution in drainage systems entering the KTAC and KTTS by interception facilities until the ultimate removal of the pollution sources. Tidal barriers and desiliting facilities will form part of the compounds to prevent any accumulation of sediment within the downstream section of KTN and hence fully mitigate the potential odour emissions from the headspace of KTN near the existing discharge locations. The odour generating operations within the proposed desilting compound will be fully enclosed and the odorous air will be collected and treated by high efficiency deodorizers before discharge to the atmosphere.	N/A
Decking or reconstruction of KTN within apron area: it is proposed to deck the KTN or reconstruct the KTN within the former Apron area into Kai Tak River from the south of Road D1 to the north of Road D2 along the existing alignment of KTN. The Kai Tak River will compose of a number of channels flowing with non-odorous fresh water and THEES effluent. The channel flowing with THEES effluent will be designed with the width of water surface of not more than 16m.	N/A

• Localised maintenance dredging: Localised maintenance dredging should be conducted to provide water depth of not less than 3.5m over the whole of KTAC and KTTS. With reference to the water depth data recorded during the odour survey, only some of the areas in the northern part of KTAC (i.e. to the north of taxiway bridge) including the area near the northern edge of KTAC, the area near western bank of KTAC, and the area near the JVC discharge have water depths shallower than 3.5m. The area involved would be about 40% of the northern KTAC and the dredging depth required would be from about 2.7m to less than 1m. The maintenance dredging to be carried out prior to the occupation of any new development in the immediate vicinity of KTAC to avoid potential localized odour impacts at the future	^
ASRs during the maintenance dredging operation. Improvement of water circulation in KTAC and KTTS: 600m gap opening at the northern part of the former Kai Tak runway, the water circulation in KTAC and KTTS would be substantially improved. Together with the improvement in water circulation, the DO level in KTAC and KTTS would also be increased.	N/A
 In-situ sediment treatment by bioremediation: Bioremediation would be applied to the entire KTAC and KTTS. 	N/A

	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	*
Construction Noise	 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. 	^ N/A(1)
	Scheduling of Construction Works during School Examination Period	^
	(i) Provision of low noise surfacing in a section of Road L2; and	N/A
	(ii) Provision of structural fins	N/A

	void the sensitive façade of class room facing Road nd L4; and	N/A
(ii) P & L4	rovision of low noise surfacing in a section of Road L2	N/A
	ovision of low noise surfacing in a section of Road L4 re occupation of Site 1I1; and	N/A
(ii) S	etback of building about 5m from site boundary.	N/A
	ack of building about 35m to the northwest direction 3 and 5m at Site 1L2.	N/A
(i)	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 facing the existing To Kwa Wan Road or	N/A
(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 away from To Kwa Wan Road to no more than 25m above ground.	N/A
(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

provided (i) S (ii) E (iii) T	rentilation fans installed in the below will be with silencers or acoustics treatment. SPS SSS SUMMER TO STATE OF THE STAT	N/A N/A N/A N/A
Installatio measures	on of retractable roof or other equivalent	N/A

Construction Water Quality	 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; Standby pumps should be provided at all SPSs to ensure smooth operation of the SPS during maintenance of the duty pumps; An alarm should be installed to signal emergency high 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. Construction Phase Marine-based Construction Capital and Maintenance Dredging for Cruise Terminal 	N/A N/A N/A
	Mitigation measures for construction of the proposed cruise terminal should follow those recommended in the approved EIA for CT Dredging.	^

1		
	Fireboat Berth, Runway Opening and Road T2	
	Silt curtains should be deployed around the close grab dredger to minimize release of sediment and other contaminants for any dredging and filling activities in open	^
	water. Dredging at and near the seawall area for construction of the public landing steps cum fireboat berth should be carried out at a maximum production rate of 1,000m ³ per day using one grab dredger.	^
	The proposed construction method for runway opening should adopt an approach where the existing seawall at the runway will not be removed until completion of all excavation and dredging works for demolition of the runway. Thus, excavation of bulk fill and majority of the dredging works will be carried out behind the existing seawall, and the sediment plume can be effectively contained within the works area. As there is likely some accumulation of sediments alongside the runway, there will be a need to dredge the existing seabed after completion of all the demolition works. Dredging alongside the 600m opening should be carried out at a maximum production rate of 2,000m ³ per day using one grab dredger.	^
	Dredging for Road T2 should be conducted at a maximum rate of 8,000m³ per day (using four grab dredgers) whereas the sand filling should be conducted at a maximum rate of 2,000m³ per day (using two grab dredgers).	N/A (1)
	Silt screens shall be applied to seawater intakes at WSD seawater intake.	^

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: use of sediment traps adequate maintenance of drainage systems to prevent flooding and overflow	^ ^
Construction site should be provided with adequately	٨
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.	

Ideally, construction works sho minimise surface excavation was season (April to September). A should be completed as soon as have been completed, or alternative cessation of earthworks excavation of soil cannot be as season, or at any time of year where we see the season of earthworks exposed slope surfaces should be other means.	vorks during the rainy All exposed earth areas possible after earthworks tively, within 14 days of where practicable. If voided during the rainy nen rainstorms are likely,
Sediment tanks of sufficient capre-formed individual cells of a capacity, are recommended a measure which can be used for prior to disposal. The system cap to handle multiple inputs from a particularly suited to application pumped.	pproximately 6 to 8 m ³ s a general mitigation or settling surface runoff pacity is flexible and able a variety of sources and
Open stockpiles of construction aggregates, sand and fill materi should be covered with tarpaulir rainstorms. Measures should be washing away of construction mainto any drainage system.	ial) of more than 50 m ³ or similar fabric during be taken to prevent the
Manholes (including newly consumated and always be adequately covered and as to prevent silt, construction in washed into the drainage system directed into foul sewers.	nd temporarily sealed so naterials or debris being

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.	^
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.	^
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	^

Debris and Litter	
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	۸
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.	^
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.	^
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.	۸
Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.	٨

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	۸
work sites to intercept the runoff. Construction effluent, site run-off and sewage should be properly collected and/or treated.	۸
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.	۸
Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea.	۸
Supervisory staff should be assigned to station on site to closely supervise and monitor the works	۸
Marine water quality monitoring and audit programme shall be implemented for the proposed sediment treatment operation.	۸

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	
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	
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	
 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 	
 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 	
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	
 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 	^
 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 	
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	
Percentification of 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	۸
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	^
A recording system for the amount of wastes generated, recycled and disposed of (including the	^
generated, recycled and disposed of (including the	
	^

	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	A
	bins to enable these wastes to be segregated from	
	other general refuse generated by the work force	
	Any unused chemicals or those with remaining	^
	20-17-18-17-18 17-17 19-17-17-17-17-17-17-17-17-17-17-17-17-17-	
	functional capacity should be recycled	٨
	 Proper storage and site practices to minimise the 	^
	potential for damage or contamination of	
	construction materials	
	Dredged Marine Sediment	
		_
	The basic requirements and procedures for dredged mud	۸
	disposal are specified under the ETWB TCW No. 34/2002.	
	The management of the dredging, use and disposal of	
	marine mud is monitored by the MFC, while the licensing	
	of marine dumping is required under the Dumping at Sea	
	Ordinance and is the responsibility of the Director of	
	Environmental Protection (DEP)	
	Environmental Frotection (DEF)	
1		

The dredged marine sediments would be loaded onto barges and transported to the designated disposal sites allocated by the MFC depending on their level of contamination. Sediment classified as Category L would be suitable for Type 1 - Open Sea Disposal. Contaminated sediment would require either Type 1 - Open Sea Disposal (Dedicated Sites), Type 2 - Confined Marine Disposal, or Type 3 - Special Treatment / Disposal and must be dredged and transported with great care in accordance with ETWB TCW No. 34/2002. Subject to the final allocation of the disposal sites by MFC, the dredged contaminated sediment must be effectively isolated from the environment and disposed properly at the designated disposal site	^
disposal site	

It will be the responsibility of the contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, prior to the dredging contract being tendered. The contractor for the dredging works should apply for allocation of marine disposal sites and all necessary permits from relevant authorities for the disposal of dredged sediment. During transportation and disposal of the dredged marine sediments requiring Type 1, Type 2, or Type 3 disposal, the following measures should be taken to minimise potential impacts on water quality: · Bottom opening of barges should be fitted with tight fitting seals to prevent leakage of material. Excess material should be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved · Monitoring of the barge loading should be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels should be equipped with automatic selfmonitoring devices as required under the Dumping at Sea Ordinance and as specified by the DEP · Barges or hopper barges should not be filled to a Λ level that would cause the overflow of materials or sediment laden water during loading or transportation

 Construction and Domelition Metanial	
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 stockpiles of C&D material within the Project work	٨
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	۸
 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 paved with concrete, bituminous materials or hardcores	^
 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 	۸
 All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet 	۸
 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 sizes 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 as stipulated in the ETWB TCW No. 31/2004 "Trip Ticket System for Disposal of Construction and Demolition Materials" should be included as one of the contractual requirements and implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. Independent Environmental Checker should be responsible for auditing the results of the system. Chemical Waste After use, chemical wastes (for example, cleaning fluids, 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) (General) Regulation 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 Effective collection and storage methods material. (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

CM1 All existing trees should be carefully protected during construction.	^
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.	^
CM3 Control of night-time lighting.	N/A(1)
CM4 Erection of decorative screen hoarding.	^
	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. CM3 Control of night-time lighting.

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/2012/02

Kai Tak Development -Stage 3A Infrastructure at Former North Apron Area

Reporting Month: February 2015

Contract No. KL/2012/02

Log Ref.	Location	Received Date	Investigation/Mitigation Action	Status	
N/A	N/A	N/A	N/A	N/A	N/A

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

APPENDIX M WASTE GENERATED QUANTITY

MONTHLY SUMMARY WASTE FLOW TABLE FOR <u>2015</u> (YEAR)

	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly				
Month	Total Quantity Generated	Borken Concrete (4)	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Import Fill	Metals	Paper / Cardboard Packaging	Plastics (3)	Chemical Waste	Other, e.g. general refuse	
	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m ³]	
JAN	1.4603	0	0	1.2409	0.094	0	0	0	0	0	0.1256	
FEB	0.14125	0	0	0	0	0	0	0	0	0	0.1413	
MAR	0	0	0	0	0	0	0	0	0	0	0	
APR	0	0	0	0	0	0	0	0	0	0	0	
MAY	0	0	0	0	0	0	0	0	0	0	0	
JUNE	0	0	0	0	0	0	0	0	0	0	0	
SUB- TOTAL	1.6016	0	0	1.2409	0.094	0	0	0	0	0	0.26685	
JULY	0	0	0	0	0	0	0	0	0	0	0	
AUG	0	0	0	0	0	0	0	0	0	0	0	
SEPT	0	0	0	0	0	0	0	0	0	0	0	
OCT	0	0	0	0	0	0	0	0	0	0	0	
NOV	0	0	0	0	0	0	0	0	0	0	0	
DEC	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	1.6016	0	0	1.2409	0.094	0	0	0	0	0	0.26685	

Contract No. : <u>KL/2012/02</u>

	Forecast of Total Quantities of C&D materials to be Generated from the Contracts *													
Total	Borken	Reused in the	Reused in Disposal as Import		Import Eill	S Import Fill	Disposal as Impart Eill		Disposal as Import Fill		Paper /	Plastics (3)	Chemical	Other, e.g.
Quantity	Concrete (4)	Contract	other	Public Fill	import rm	Metals	Cardboard	oard Flastics (5)	Waste	general				
[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m ³]				
27.972	26.472	0	0	0	0	0	0.9	0	1.8	1.5				

Notes: (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the site.

(2) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material.