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

May 2014

(version 1.0)

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.

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EXECUTIVE SUMMARY

Introduction

- 1. This is the 8th 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 31 May 2014.
- 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	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;
 - Trial Pit Excavation for SW3;
 - Erection of Site Boundary Fencing;

- Sheet piling and earthworks for VT1;
- Tree Felling;
- Drainage Works at Portion F2, G and B6;
- Pre-bored H-pile;
- Ground Investigation; and
- Roadworks 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-RE0239-14, GW-RE0365-14, GW-RE0367-14, GW-RE0532-14 and GW-RE0537-14).

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 8th Monthly EM&A report summarizing the EM&A works for the Project from 1 31 May 2014.

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 1.1Key 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	
ARUP	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	2230 7165	3007 8556
	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:
 - Trial Pit Excavation for SW3;
 - Erection of Site Boundary Fencing;
 - Sheet piling and earthworks for VT1;
 - Tree Felling;
 - Drainage Works at Portion F2, G and B6;
 - Pre-bored H-pile;
 - Ground Investigation; and
 - Trial Pit for SW3.
- 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 1-31 May 2014.

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 24hour 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	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

<u>Instrumentation</u>

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.

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

		nty Monitoring Kesu		3
Parameter	Date	Concentration (µg/m3)	Action Level, µg/m3	Limit Level, μg/m3
AM1(B) – Contractor Site Off	fice (KL/2012/02)		-	
	2-May-14	75.8		
	2-May-14	74.9		
	2-May-14	75.5		
	7-May-14	171.5		
	7-May-14	175.2 170.0		
	7-May-14 12-May-14	81.2		
	12-May-14	85.1		
1.1 500	12-May-14	87.5	242	500
1-hr TSP	16-May-14	76.1	342	500
	16-May-14	63.8		
	16-May-14	78.3		
	22-May-14	89.1		
	22-May-14	92.0		
	22-May-14 28-May-14	91.1 43.5		
	28-May-14	46.9		
	28-May-14	38.2		
	5-May-14	56.5		
	9-May-14	37.6		
24-hr TSP	15-May-14	47.6	150	260
24-III 13F	21-May-14	50.2	159 260	200
	27-May-14	70.9		
	30-May-14	39.4		
AM2 – Lee Kau Yan Memoria				T
	2-May-14	83.8		
	2-May-14	84.5		
	2-May-14	82.1		
	7-May-14	165.5		
	7-May-14	162.9		
	7-May-14	169.2		
	12-May-14	92.5		
	12-May-14	95.6		
4.1 500	12-May-14	88.5	246	500
1-hr TSP	16-May-14	80.3	346	500
	16-May-14	57.9		
	16-May-14	72.1		
	22-May-14	98.5		
	22-May-14	94.4		
	22-May-14	102.0		
	28-May-14	56.2		
		62.0	-	
	28-May-14	54.9	-	
	28-May-14			
	5-May-14	35.5	_	
	9-May-14	40.8	_	
24-hr TSP	15-May-14	26.8	157	260
	21-May-14	39.7		
	27-May-14	40.9	_	
	30-May-14	47.4		

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 College	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

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 & 959	4
Calibratan	SVAN 30A	3
Calibrator	B&K4231	1

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	Damamatan	Daviad	Engagonary	Maggurament
Stations	Parameter	Period	Frequency	Measurement

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$\begin{array}{ccc} M3 & L_{10}(30 \text{ min.}) \text{ dB(A)} \\ M4 & L_{90}(30 \text{ min.}) \text{ dB(A)} \\ M9 & L_{eq}(30 \text{ min.}) \text{ dB(A)} \end{array}$	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
М3	Cognitio College	Traffic Noise Daily school activities
M4	Lee Kau Yan Memorial School	Traffic Noise Site vehicle movement Excavation works Piling works Daily school activities
M9	Tak Long Estate	Traffic Noise 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 ⁽²⁾ (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 78.6dB(A)at Rooftop of Cognitio College)

Note (2): The baseline noise monitoring report submitted under KLN/2013/16 for M9 was verified by the Contract's IEC on 26th May 2014.

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⁾		
7-May-14	81.4	81.5	81.4 Measured ≦ Baseline	
12-May-14	76.1	75.2	68.8	
22-May-14	75.8	75.1	67.5	
28-May-14	78.5	78.1	67.9	
M4 – Lee Kau	Yan Memorial College			
7-May-14	74.4		74.4 Measured ≦ Baseline	
12-May-14	69.8	76.7	69.8 Measured ≦ Baseline	
22-May-14	73.8	70.7	73.8 Measured ≦ Baseline	
28-May-14	73.2		73.2 Measured ≦ Baseline	
M9 – Tak Long Estate				
2-May-14	59.7		59.7 Measured ≦ Baseline	
8-May-14	62.2	59.9	58.3	
15-May-14	66.4		65.3	

20-May-14	67.9	67.2
27-May-14	63.4	60.8

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

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

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 2009 to Mid 2013), µg/m3	Scenario2 (Mid 2013 to Late 2016), µg/m3	Reporting Month (May 14), μg/m3
AM1(B) – Contractor Site Office of KL/2008/09	192	298	89.8
AM 2 – Lee Kau Yan Memorial School	290	312	94.6

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

Station	Predicted 24-hr TSP conc.		
	Scenario1 (Mid 2009 to Mid 2013), µg/m3	Scenario2 (Mid 2013 to Late 2016), µg/m3	Reporting Month (May 14), µg/m3
AM1(B) – Contractor Site Office of KL/2008/09	121	156	50.3
AM2 – Lee Kau Yan Memorial School	145	169	38.5

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

Stations	Predicted Mitigated Construction Noise Levels during Normal Working Hour (L _{eq (30min)} dB(A))	$\begin{array}{c} \text{Reporting Month (May 14),} \\ L_{eq~(30min)}~dB(A) \end{array}$
M3 – Cognitio College	47 – 75	$67.5 - 81.4^{(1)}$
M4 – Lee Kau Yan Memorial School	47 – 74	69.8 – 74.4 ⁽²⁾
M9 – Tak Long Estate	Not Predicted in EIA Report	58.3 – 67.2

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 were below to the prediction in the approved Environmental Impact Assessment (EIA) Report.
- 4.3 The 24-hour TSP concentrations in the reporting month were below to the prediction in the approved Environmental Impact Assessment (EIA) Report.

4.4 Mitigated construction noise levels at M9 were not predicted in EIA Report. The noise monitoring results in the reporting month at other two 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.

Monthly EM&A Report – May 2014

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 8th, 14th, 22nd and 28th May 2014 in the reporting month. IEC site inspections were conducted on 22nd May 2014. 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.

Permit No.	Valid	Period	— Details Statu	
refillit No.	From	To		
Environmental Permit (EP)				
EP-337/2009	23/04/09	N/A	Construction of new distributor roads serving the planned Kai Tak development.	Valid
Effluent Discharge License				
WT00016873-2013	-	31/08/18	Wastewater from the construction site	Valid
WT00016723-2013	1	31/08/18	including contaminated surface run-off Valid	
Registration of Chemical Waste Producer				

Permit No.	Valid 1	Period	Details Status	
refillt No.	From	To	Details	Status
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 Po	ermit (CNP)			C 11 1
GW-RE0239-14	11/03/14	18/05/14	Construction Noise Permit for the use of	Cancelled with effect in reporting month
GW-RE0365-14	21/04/14	20/10/14	powered mechanical equipment for	Valid
GW-RE0367-14	21/04/14	18/05/14	carrying out construction work other than	
GW-RE0532-14	19/05/14	11/11/14		Valid
GW-RE0537-14	19/05/14	11/11/14		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	
	30 Apr 14	Provide sand bags under hoarding near bus stop to prevent runoff out of site.	Rectification/improvement was observed during the follow-up audit session.
	8 May 14	Sand bag bund should be improved to prevent muddy runoff entering public area. (Next to car park)	Rectification/improvement was observed during the follow-up audit session.
Water Quality	14 May 14	Remove silty water under gate near Tsat Po Street.	Rectification/improvement was observed during the follow-up audit session.
	22 May 14	Sand bag bund should be provided under hoarding near Tsat Po Street to prevent silty runoff leaking out.	Rectification/improvement was observed during the follow-up audit session.
	28 May 14	Sand bags should be provided to gullies near car park to avoid runoff from	Follow up action will be reported in next reporting

Parameters	Date	Observations and Recommendations	Follow-up
		entering.	month.
	24 & 30 Apr, 8 May 14	Proper maintain the tarpaulin cover for stockpile of dusty material to reduce air quality impact.	Rectification/improvement was observed during the follow-up audit session.
Air Quality 14 M	30 Apr 14	Proper cover cement bags with tarpaulin in work area near Sze Mei Street.	Rectification/improvement was observed during the follow-up audit session.
	14 May 14	Provide water spraying to breaking works to reduce dust emission.	Rectification/improvement was observed during the follow-up audit session.
	28 May 14	Water spraying should be provided more frequently to reduce dust emission.	Follow up action will be reported in next reporting month.
Noise		ŀ	
Waste/Chemical Management	22 May 14	General refuse at work area near Sam Chuk Street should be regularly removed to avoid accumulation.	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 22nd May 2014, the observations were recorded and they are presented as follows:

Observations:

- 1. Work site area near Sam Chuk Street General refuse on bare ground was observed. The contractor should remove the waste and provide sufficient collection points.
- 2. Work site area near Tsat Po Street Silty water was found at the entry and exit area. The contractor should provide sandbag under the hoarding to prevent muddy runoff.

Follow up of last observation:

- Exposed area next to site office Oil stain was removed. Last observation closed.
- Exposed area next to site office Dusty stockpile was proper cover with tarpaulin sheet. Last observation closed.
- Work site area at Sze Mei Street -No smoke emission from the air compressor was observed. 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;
 - ELS for VT1 at Portion G;
 - Sheet piling and earthworks for VT1;
 - Tree Transplanting;
 - Drainage works at Portion F2, G and B6;
 - Piling works for SW2 and SW3;
 - Ground investigation at Portion G; and
 - Trial Pit for SW3.

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. June and July 2014 are summarized as follows:

23

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. h) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation;
		i) Controlling the number of plants use on site;j) Regular maintenance of machines; and
		k) Use of acoustic barriers if necessary.

Monitoring Schedule for the Next Month

7.4 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 works.
- To mitigate the dust generation by adequate water spraying in dry days.
- To provide regular maintenance to equipments and machines to prevent smoke emission.
- To cover cement bags with tarpaulin or impervious sheet.

Water Impact

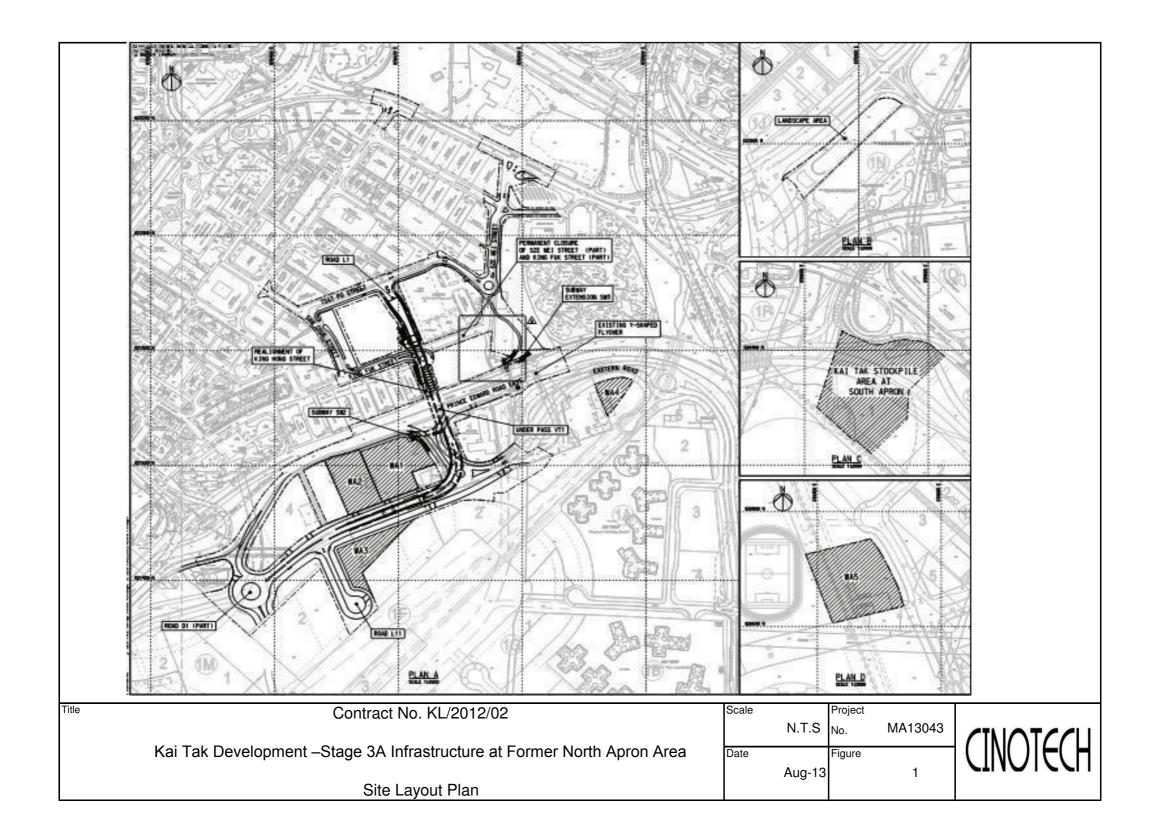
- To prevent any surface runoff discharge into any stream course.
- To review and implement temporary drainage system.
- To identify any wastewater discharges from site.
- To ensure properly maintenance for de-silting facilities.
- To clear the silt and sediment in the sedimentation tanks.
- To review the capacity of de-silting facilities for discharge.

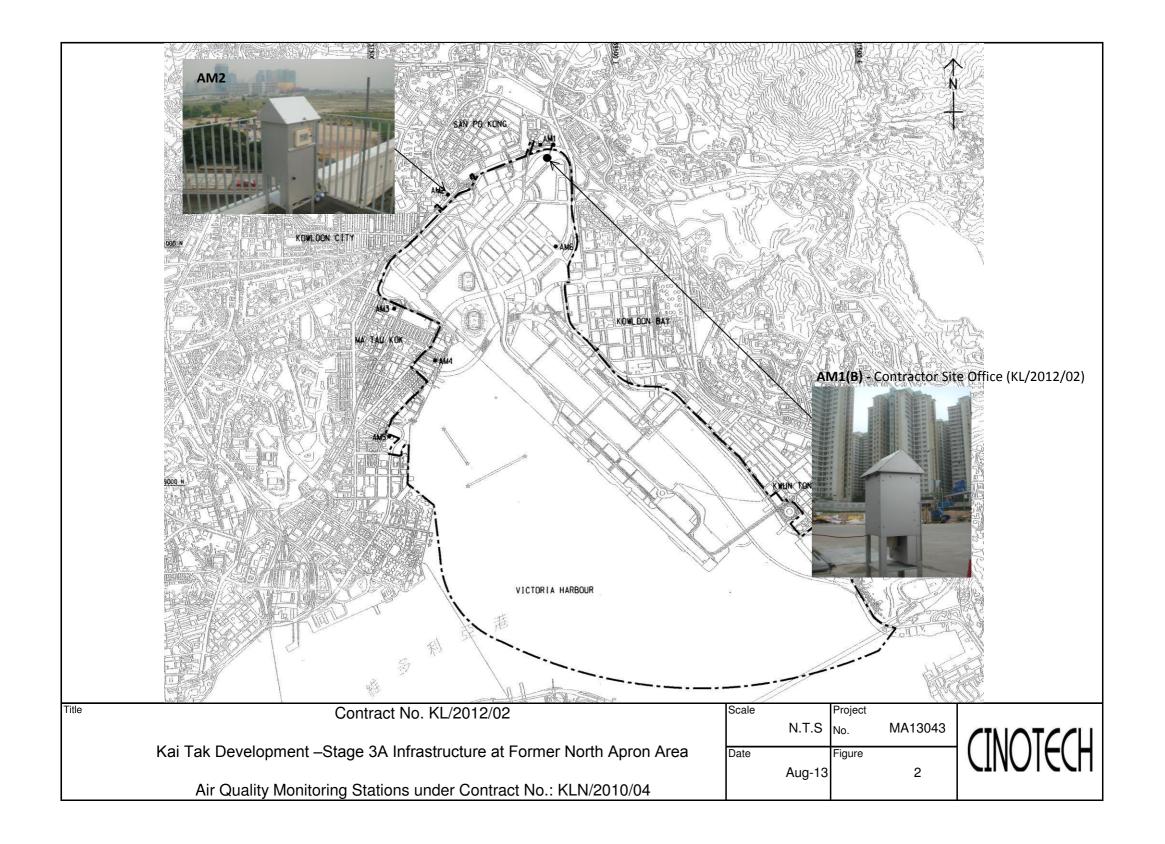
• To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge.

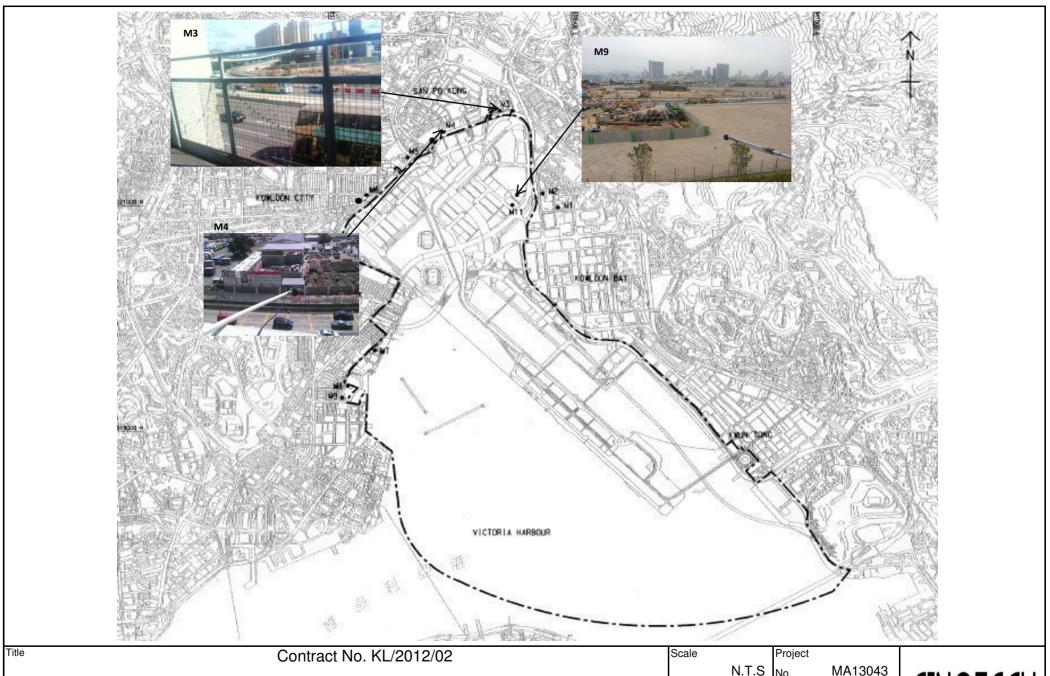
Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site.
- To ensure the performance of sorting of C&D materials at source (during generation).

FIGURES







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

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

Date

N.T.S

Project
No. MA13043

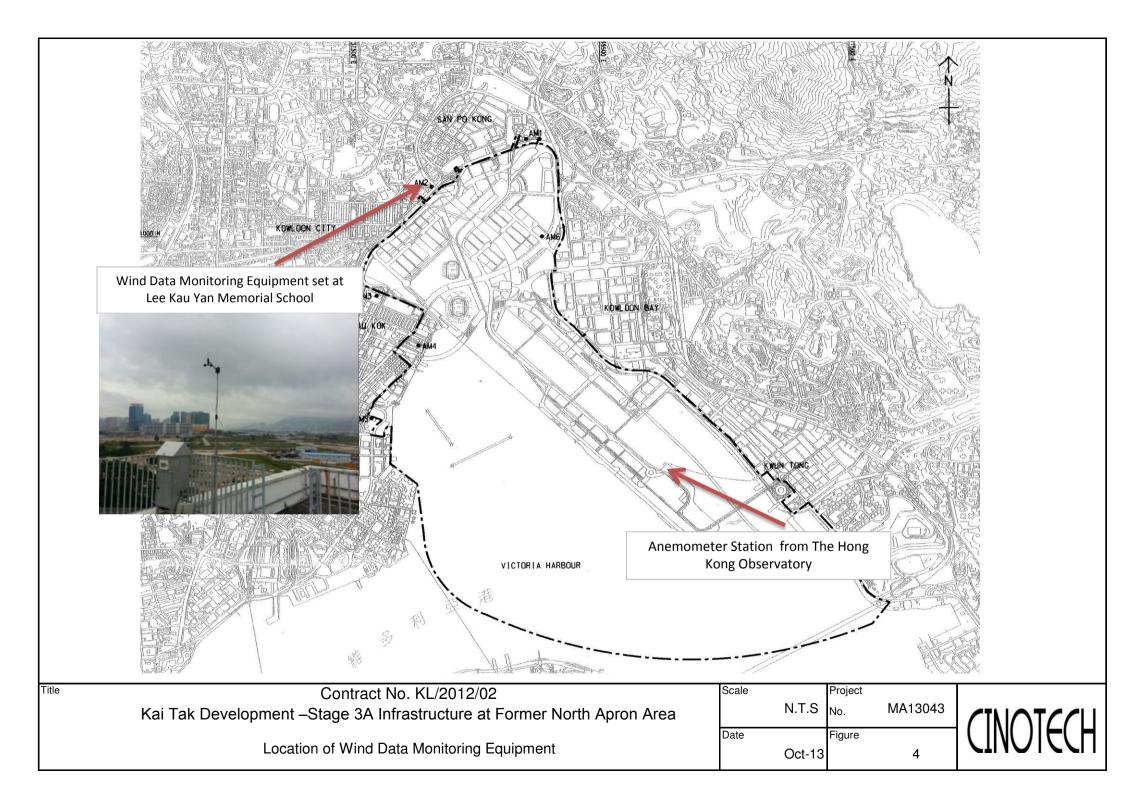
Figure

Apr-14

Apr-14

Apr-14





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

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

CINOTECH

Date 28-Apr-14 Next Dute Date 27-Jun-14 Serial No. 2357							file No.	MA14008/58/0022
Ambient Condition Temperature, Ta (K) 297.6 Pressure, Pa (mmHg) 763.5	Station	AM1(B) - Outsid	le RLJV site offic	e (KL/2008/09)	Operator:	WK		•
Ambient Condition Temperature, Ta (K) 297.6 Pressure, Pa (mmHg) 763.5	Date:	28-Apr-14		1	Next Due Date:	27-Jun-	14	•
Temperature, Ta (K) 297.6 Pressure, Pa (mmHg) 763.5	Equipment No.:	A-01-58			Serial No.	2357		-
Conducted by:				Ambient (Condition	* 1	****	
Calibration Date A Carpet Calibration Date Date Date Date Date Calibration Calibration Date D	Temperatu	re Ta(K)	297.6			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	763.5	
Equipment No.:	remperatu	110, 111 (11)		, , , , , , , , , , , , , , , , , , , ,				
Last Calibration Date: 30-Sep-13			Or	ifice Transfer Sta	ındard İnform	ation		
Next Calibration Date: 29-Sep-14 Qstd = { AH x (Pa/760) x (298/Ta) }^{1/2} - be} / mc	Equipme	ent No.:	A-04-04	Slope, mc				
Calibration of TSP Sampler	Last Calibr	ation Date:	30-Sep-13					
Calibration Point AH (orifice), [AH x (Pa/760) x (298/Ta)] ^{1/2} Qstd (CFM) AW (Pa/760) x (298/Ta)] ^{1/2} Yaxis [AW x (Pa/760) x (298/Ta	Next Calibr	ation Date:	29-Sep-14		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} :$	x (Pa/760) x (298.	/Ta)] ^{1/2} -bc}	/ mc
Calibration Point AH (orifice), [AH x (Pa/760) x (298/Ta)] ^{1/2} Qstd (CFM) AW (Pa/760) x (298/Ta)] ^{1/2} Yaxis [AW x (Pa/760) x (298/Ta			•					
Califoration Point AH (orifice), in. of water [AH x (Pa/760) x (298/Ta)]^{1/2} Qstd (CFM) X - axis (HVS), in. of oil axis (HVS), oil (HVS), oi				Calibration of	TSP Sampler			
Point AH (orifice) [AH x (Pa/760) x (298/Ta)]^{1/2} Qstd (CFM) X-axis [AW x (Pa/760) x (298/Ta)]^{1/2} X-axis [AW x (Pa/760) x (298/Ta)]^{	0.11		Orf	iice			HVS	
2 9.7 3.12 53.91 6.5 2.56 3 7.5 2.75 47.50 5.0 2.24 4 5.3 2.31 40.05 3.4 1.85 5 3.3 1.82 31.77 2.0 1.42 By Linear Regression of Y on X Slope , mw = 0.0509 Intercept, bw:			[ΔH x (Pa/760	0) x (298/Ta)] ^{1/2}	1 - '			
3 7.5 2.75 47.50 5.0 2.24 4 5.3 2.31 40.05 3.4 1.85 5 3.3 1.82 31.77 2.0 1.42 By Linear Regression of Y on X Slope, mw = 0.0509 Intercept, bw0.1897 Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = \Delta W x (Pa/760) x (298/Ta) ^{1/2} Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = 3.97 Remarks: Conducted by: \(\text{LARY} \) Signature: \(\text{LARY} \) Signature: \(\text{Dale} \) \(\text{Dale} \) \(\text{Dale} \) \(\text{Date:} \) \(\text{Dale} \) \(\text{Date:} \)	1	11.8	3	.45	59.38	7.9		2.82
4 5.3 2.31 40.05 3.4 1.85 5 3.3 1.82 31.77 2.0 1.42 By Linear Regression of Y on X Slope , mw = 0.0509 Intercept, bw : -0.1897 Correlation coefficient = 0.9998 *If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation	2	9.7	3	3.12	53.91	6.5		2,56
Set Point Calculation Set Point; W = (mw x Qstd + bw) x (760 / Pa) x (Ta / 298) = 3.97	3	7.5	2	2.75	47.50	5.0		2.24
Set Point Calculation Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = 3.97	4	5.3	. 2	2.31	40.05	3.4		1.85
By Linear Regression of Y on X Slope, mw = 0.0509			1	.82	31.77	2.0		1.42
Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = [\Delta W x (Pa/760) x (298/Ta)]^{1/2} Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = 3.97 Remarks: Conducted by: 1/1 Jary Signature: 1/2 Jary Date: 1/2 Jary July 1/2 Ju	Slope, mw =	0.0509	<u></u>		Intercept, bw	-0.189) 7	-
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From the Regression Equation, the "Y" value according to mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)] ^{1/2} Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) = 3.97 Remarks: Conducted by: the Tang Signature: Date: 28 4 2 3 4				Set Point (Calculation			
From the Regression Equation, the "Y" value according to $mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = 3.97 Remarks: Conducted by: 1/1 Jary Signature: // Mary Date: 28/4/23/4	From the TSP F	ield Calibration C	Curve, take Ostd =	= 43 CFM				
Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) = 3.97$ Remarks: Conducted by: Large Signature: Man Date: 28 4 2 3 4 2 3 4 4 4 2 3 4 4 4 2 3 4 4 4 4								
Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) = 3.97 Remarks: Conducted by: 1/k Jarry Signature:		,				4.79		
Remarks: Conducted by: 1/k Jary Signature: Kwai Date: 28/4/2014			mw x ($Qstd + bw = [\Delta W]$	x (Pa/760) x (2	298/Ta)] ^{1/2}		
Conducted by: 1/k Jang Signature: Kwai Date: 28/4/2014	Therefore, S	Set Point; W = (n	ıw x Qstd + bw) [*]	² x (760 / Pa) x (Ta / 298)=	3.97	,	_
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Conducted by: 1/k Jang Signature: Kwai Date: 28/4/2014	L			,				
Conducted by: 1/k Jang Signature: Kwai Date: 28/4/2014								
	Remarks:							
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	•	- 1 1	Signature: Signature:	Ku	$\frac{ \alpha }{\alpha}$	-	Date: Date:	2814/2014 29 Rout dolle

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

CINOTECH

						File No.	MA14008/59/0023
Station	AM2 - Lee Kau	Yan Memorial S	chool	Operator:	WK		
Date:	2-May-14		ì	- Next Due Date:	1-Jul-1	4	
Equipment No.:	A-01 - 59		•	Serial No.	2354		
			Ambient	Condition			
Temperatu	re, Ta (K)	300.1	Pressure, Pa			763	
	, \			·			
		Oı	ifice Transfer Sta	ındard İnform	ation		
Equipme	ent No.:	A-04-04	Slope, mc	0.0588	Intercept		-0.0461
Last Calibra	ation Date:	30-Sep-13			$\mathbf{c} = \Delta \mathbf{H} \times (\mathbf{P}a/76) $		
Next Calibr	ation Date:	29-Sep-14		$Qstd = \{ [\Delta H :$	x (Pa/760) x (298	/Ta)] ^{1/2} -bc}	/ me
		•					
			Calibration of	TSP Sampler			
Calibration		Or	fice			HVS	
Point	ΔΗ (orifice), in. of water	[ΔH x (Pa/76	0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of oil		760) x (298/Ta)] ^{1/2} Y- axis
1	11.9	3	3.44	59.36	7.9		2.81
2	9.8		3.13	53.94	6.7		2.58
3	7.5	2	2.73	47.29	5.0		2.23
4	5.2	2	2.28	39.51	3.3		1.81
5	3.2		1.79	31.16	2.0		1.41
Slope, mw =		_		Intercept, bw	-0.158	32	
		993					
*If Correlation (Coefficient < 0.99	90, check and rec	alibrate.				
			Set Point (Calculation			
From the TSP F	ield Calibration C	Curve, take Qstd	= 43 CFM				
From the Regres	ssion Equation, th	ne "Y" value acco	ording to				
			O	OD 15 (0) (0	100 m \1/2		
		mw x	$Qstd + bw = [\Delta W]$	x (Pa/760) x (2	298/1a)j"		
Therefore, S	Set Point; W = (n	nw x Qstd + bw)	² x (760 / Pa) x (Ta / 298)=	4.04		
Remarks:							
			,	1			
Conducted by:	wk Tana	Signature:	Ku	rai /	_	Date:	2/5/14
Checked by	THE O	Signature:		_ /	-	Date:	of May doly



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TEST REPORT

Description Calibration Orifice

Serial No.

0993

Model No.

TE-5025A

Date

30 September 2013

Manufacturer

TISCH

Temperature,Ta (K)

300.8

Pressure, Pa (mmHg)

759.3

Equipment No.:

A-04-04

Plate	Diff.Vol (m³)	Diff.Time (min)	Diff.Hg (mm)	Diff.H ₂ O (in.)
1	1.00	1.4103	3.4	2.00
2	1.00	0.9980	6.8	4.00
3	1.00	0.8970	8.5	5.00
. 4	1.00	0.8540	9.4	5.50
5	1.00	0.7060	13.6	8.00

DATA TABULATION

Vstd	(X axis) Qstd	(Y axis)
0.9853	0.6986	1.4069
0.9808	0.9828	1.9897
0.9786	1.0910	2.2245
0.9775	1.1446	2.3331
0.9720	1.3768	2.8138

Y axis= SQRT[H₂O(Pa/760)(298/Ta)]

Qstd Slope (m) = 2.07768

Intercept (b) = $\frac{-0.04613}{}$

Coefficient (r) = 0.99997

Va	(X axis) Qa	(Y axis)
0.9955	0.7059	0.8901
0.9910	0.9930	1.2589
0.9888	1.1023	1.4074
0.9876	1.1565	1.4761
0.9821	1 3911	1.7803

Y axis= SQRT[H2O(Ta/Pa)]

Qa Slope (m) = 1.30101

Intercept (b) = -0.02919

Coefficient (r) = 0.99997

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:

 $Qstd=I/m\{[SQRT(H_2O(Pa/760)(298/Ta))]-b\}$

Qa=I/m{[SQRT H₂O(Ta/Pa)]-b}

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

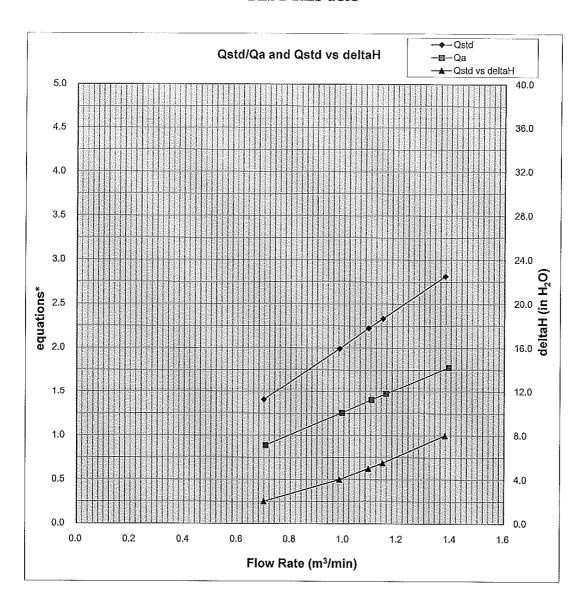
PATRICK TSE

Laboratory Manager

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TEST REPORT



Y-axis equations:

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

Qa series: SQRT[∆H(Ta/Pa)]

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/140411A
Date of Issue: 2014-04-11
Date Received: 2014-04-11
Date Tested: 2014-04-11

Date Completed: 2014-04-11
Next Due Date: 2014-10-12

Page:

1 of 2

ATTN:

Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description
Manufacturer

: Weather Monitor II: Davis Instruments

Model No.

: 7440

Serial No.

: MC20813A11

Test conditions:

Room Temperature

: 21 degree Celsius

Relative Humidity

: 56%

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)

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PATRICK TSE
Laboratory Manager



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TEST REPORT

Test Report No.: C/140411A Date of Issue: 2014-04-11 Date Received: 2014-04-11 Date Tested: 2014-04-11 2014-04-11 Date Completed: Next Due Date: 2014-10-12

Page:

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Results:

1. Performance check of anemometer

Air Velo	city, m/s	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 Dir	ection (°)	Difference D (°)
Instrument Reading (W1)	Reference Value (W2)	D = W1 - W2
0	0	0
45.2	45	0.2
90.5	90.5	0
134.9	135	-0.1
180.2	180	0.2
225.3	225	0.3
270.2	270	0.2
315.1	315	0.1
359.7	360	-0.3



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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

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Test Report No.: C/140301/2
Date of Issue: 2014-03-03
Date Received: 2014-03-01
Date Tested: 2014-03-01

Date Completed: 2014-03-03

Next Due Date: 2014-05-02

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

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

Sen. Adjustment Scale Setting

: 550 CPM

Equipment No.

: A-02-01

Test Conditions:

Room Temperature

: 18 degree Celsius

Relative Humidity

: 69%

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

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APPLICANT: Cinotech Consultants Limited

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Test Report No.: C/140417/1
Date of Issue: 2014-04-19
Date Received: 2014-04-17
Date Tested: 2014-04-17
Date Completed: 2014-04-19

Next Due Date:

2014-04-19 2014-06-18

ATTN:

Mr. WK Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description : Laser Dust Monitor

Manufacturer : Sibata

Model No. : LD-3B

Serial No. : 954253

Sensitivity (K) 1 CPM : 0.001 mg/m³

Sen. Adjustment Scale Setting : 772 CPM

Equipment No. : A-02-05

Test Conditions:

Room Temperature : 19 degree Celsius

Relative Humidity : 65%

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

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Laboratory Manager

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APPLICANT: Cinotech Consultants Limited

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Test Report No.: C/140301/3
Date of Issue: 2014-03-03
Date Received: 2014-03-01
Date Tested: 2014-03-01
Date Completed: 2014-03-03
Next Due Date: 2014-05-02

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description : Laser Dust Monitor

Manufacturer : Sibata

Model No. : LD-3B

Serial 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 : 18 degree Celsius

Relative Humidity : 69%

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

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TEST REPORT

APPLICANT: **Cinotech Consultants Limited**

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Test Report No.: C/140502/3 Date of Issue: 2014-05-05 Date Received: 2014-05-02 Date Tested: 2014-05-02 Date Completed: 2014-05-05

Next Due Date: Page:

2014-07-04 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. : 014750 $: 0.001 \text{ mg/m}^3$ Sensitivity (K) 1 CPM Sen. Adjustment Scale Setting : 790 CPM : A-02-06

Equipment No.

Test Conditions:

: 22 degree Celsius Room Temperature

Relative Humidity :67%

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)	0.0028

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TEST REPORT

APPLICANT:

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Test Report No.: C/140430/1
Date of Issue: 2014-05-02

Date Received: 2014-04-30

Date Tested: 2014-04-30 Date Completed: 2014-05-02

Next Due Date: 2014-07-01

ATTN:

Mr. W. K. Tang

Page:

1 of 1

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 : 22 degree Celsius

Relative Humidity : 65%

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

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TEST REPORT

APPLICANT: **Cinotech Consultants Limited**

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Test Report No.: C/140430/2 Date of Issue: 2014-05-02 Date Received: 2014-04-30 Date Tested: 2014-04-30 Date Completed: 2014-05-02 Next Due Date: 2014-07-01

ATTN:

Mr. W. K. Tang

Page:

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Certificate of Calibration

Item for Calibration:

: Laser Dust Monitor Description

: Sibata Manufacturer : LD-3B Model No. : 095050 Serial No. $: 0.001 \text{ mg/m}^3$ Sensitivity (K) 1 CPM : 577 CPM Sen. Adjustment Scale Setting : A-02-09 Equipment No.

Test Conditions:

: 22 degree Celsius Room Temperature

Relative Humidity : 65%

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
Management 1 and 1	

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TEST REPORT

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Test Report No.: C/140430/3 Date of Issue: 2014-05-02 Date Received: 2014-04-30 Date Tested: 2014-04-30 Date Completed: 2014-05-02 Next Due Date: 2014-07-01

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1 of 1

ATTN:

Mr. W. K. Tang

Certificate of Calibration

Item for Calibration:

: Laser Dust Monitor Description

Manufacturer : Sibata : LD-3B Model No. : 095029 Serial No. Sensitivity (K) 1 CPM $: 0.001 \text{ mg/m}^3$: 551 CPM Sen. Adjustment Scale Setting Equipment No. : A-02-10

Test Conditions:

: 22 degree Celsius Room Temperature

: 65% Relative Humidity

Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The 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:

z tes cares	
Correlation Factor (CF)	0.0029

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/130919/1
Date of Issue: 2013-09-21
Date Received: 2013-09-19
Date Tested: 2013-09-21
Date Completed: 2013-09-21
Next Due Date: 2014-09-20

ATTN:

Mr. W.K. Tang

Page:

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Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 955

Serial No.

: 12553

Microphone No. Equipment No.

: 35222 : N-08-02

Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 57%

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:

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

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Test Report No.: C/N/140104

Date of Issue: 2014-01-05

Date Received: 2014-01-04

Date Tested: 2014-01-04

Date Completed: 2014-01-05 Next Due Date: 2015-01-04

Page:

1 of 1

ATTN:

Mr. W. K. Tang

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 955

Serial No.

: 14303 : 35222

Microphone No. Equipment No.

: N-08-05

Test conditions:

Room Temperatre

: 19 degree Celsius

Relative Humidity

: 52%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

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

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE
Laboratory Manager



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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

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Test Report No.: C/N/130830/2 Date of Issue: 2013-08-31 Date Received: 2013-08-30 Date Tested: 2013-08-30 Date Completed: 2013-08-31 Next Due Date: 2014-08-30

Page:

1 of 1

ATTN:

Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description : 'SVANTEK' Integrating Sound Level Meter

Manufacturer : SVANTEK Model No. : SVAN 957 Serial No. : 21459 Microphone No. : 43676 Equipment No. : N-08-08

Test conditions:

Room Temperatre : 21 degree Celsius

Relative Humidity : 69%

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

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

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Test Report No.: C/N/130830/3
Date of Issue: 2013-08-31
Date Received: 2013-08-30
Date Tested: 2013-08-30
Date Completed: 2013-08-31
Next Due Date: 2014-08-30

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.

: SVAN 957

Serial No.

: 21460

Microphone No. Equipment No.

: 43679 : N-08-09

Test conditions:

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 69%

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

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

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Test Report No.:	C/N/130919/3
Date of Issue:	2013-09-21
Date Received:	2013-09-19
Date Tested:	2013-09-21
Date Completed:	2013-09-21
Next Due Date:	2014-09-20

ATTN:

Mr. W.K. Tang

Page:

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Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A

Serial No.

: 10929

Equipment No.

: N-09-01

Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 57%

Methodology:

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

Results:

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

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

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Test Report No.: C/N/131004/1
Date of Issue: 2013-10-05
Date Received: 2013-10-04
Date Tested: 2013-10-04
Date Completed: 2013-10-05
Next Due Date: 2014-10-04

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer Model No.

: SVANTEK

Model No.

: SV30A

Serial No.

: 24803

Equipment No.

: N-09-03

Test conditions:

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 57%

Methodology:

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

Results:

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

PREPARED AND CHECKED BY:

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PATRICK TSE Laboratory Manager

•

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

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Test Report No.: C/N/131004/2
Date of Issue: 2013-10-05
Date Received: 2013-10-04
Date Tested: 2013-10-04
Date Completed: 2013-10-05
Next Due Date: 2014-10-04

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A

Serial No.

: 24791

Equipment No.

: N-09-04

Test conditions:

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 57%

Methodology:

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

Results:

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

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Laboratory Manager

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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/130830/4-v1
Date of Issue:	2014-03-07
Date Received:	2013-08-30
Date Tested:	2013-08-30
Date Completed:	2013-08-31
Next Due Date:	2014-08-30

ATTN:

Mr. W.K. Tang

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: Brüel & Kjær

Model No.

: 4231 : 2412367

Serial No. 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

APPENDIX C WEATHER INFORMATION

I. General Information

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 May 2014	21.0 – 25.3	79 – 97	2.8
2 May 2014	22.3 – 27.0	69 – 88	Trace
3 May 2014	23.1 – 26.8	63 – 90	0.2
4 May 2014	21.5 – 23.8	88 – 98	7.3
5 May 2014	20.2 – 23.8	81 – 98	26.6
6 May 2014	18.8 – 20.4	83 – 95	1.0
7 May 2014	19.8 – 21.2	91 – 98	3.2
8 May 2014	21.2 – 23.2	92 – 100	106.3
9 May 2014	20.9 – 22.2	99 – 100	89.1
10 May 2014	21.5 – 25.6	89 – 100	12.5
11 May 2014	22.3 – 26.6	84 – 100	164.5
12 May 2014	23.4 – 29.4	75 – 100	40.9
13 May 2014	24.8 – 29.1	80 – 98	57.5
14 May 2014	27.5 – 30.9	75 – 88	2.0
15 May 2014	27.3 – 30.8	74 – 90	2.8
16 May 2014	26.9 – 30.4	82 – 98	18.8
17 May 2014	26.5 – 30.2	78 – 98	10.7
18 May 2014	27.5 – 30.4	76 – 89	1.2
19 May 2014	25.8 – 32.0	72 – 88	0.7

I. General Information

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
20 May 2014	23.1 – 29.8	78 – 97	53.2
21 May 2014	23.9 – 30.6	77 – 99	47.1
22 May 2014	28.2 – 29.9	76 – 84	Trace
23 May 2014	25.4 – 28.9	82 – 98	33.1
24 May 2014	25.9 – 31.5	73 – 94	0.0
25 May 2014	26.7 – 32.6	64 – 87	3.6
26 May 2014	27.8 – 32.0	65 – 90	Trace
27 May 2014	27.8 – 32.7	65 – 89	0
28 May 2014	27.6 – 32.1	64 – 85	0
29 May 2014	28.1 – 31.4	68 – 86	Trace
30 May 2014	27.9 – 32.0	65 – 87	2.2
31 May 2014	28.4 – 32.8	65 – 85	Trace

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

Date	Time	Wind Speed m/s	Direction
1-May-2014	00:00	0.5	SSW
1-May-2014	01:00	0.5	WSW
1-May-2014	02:00	0.1	WSW
1-May-2014	03:00	0.3	W
1-May-2014	04:00	0.8	WSW
1-May-2014	05:00	1.1	WNW
1-May-2014	06:00	1.4	W
1-May-2014	07:00	2.1	W
1-May-2014	08:00	2.4	N
1-May-2014	09:00	2.5	WNW
1-May-2014	10:00	2.4	NNE
1-May-2014	11:00	2.7	WSW
1-May-2014	12:00	2.7	S
1-May-2014	13:00	3.2	S
1-May-2014	14:00	3.3	S
1-May-2014	15:00	3.3	WSW
1-May-2014	16:00	2.8	W
1-May-2014	17:00	2.4	W
1-May-2014	18:00	2.5	W
1-May-2014	19:00	2	WNW
1-May-2014	20:00	1.9	SSW
1-May-2014	21:00	1.7	SSW
1-May-2014	22:00	2.1	SSW
1-May-2014	23:00	2	SW
2-May-2014	00:00	1.9	WSW
2-May-2014	01:00	2.1	W
2-May-2014	02:00	1.7	WSW
2-May-2014	03:00	1.4	W
2-May-2014	04:00	1.4	W
2-May-2014	05:00	2.1	NE
2-May-2014	06:00	1.7	N
2-May-2014	07:00	1.9	N
2-May-2014	08:00	2.2	N
2-May-2014	09:00	2.4	ENE
2-May-2014	10:00	2.4	ENE
2-May-2014	11:00	2	NE

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2-May-2014	12:00	1.6	NE
2-May-2014	13:00	1.2	NE
2-May-2014	14:00	0.8	NE
2-May-2014	15:00	1.1	ENE
2-May-2014	16:00	1.1	ENE
2-May-2014	17:00	0.3	ENE
2-May-2014	18:00	0.3	NE
2-May-2014	19:00	0.6	NE
2-May-2014	20:00	0.6	NNE
2-May-2014	21:00	0.4	NNE
2-May-2014	22:00	0.5	NE
2-May-2014	23:00	0.6	N
3-May-2014	00:00	0.4	NNE
3-May-2014	01:00	0.1	ENE
3-May-2014	02:00	0.5	ENE
3-May-2014	03:00	0.4	ENE
3-May-2014	04:00	1.1	W
3-May-2014	05:00	1.8	W
3-May-2014	06:00	1.8	WNW
3-May-2014	07:00	1	W
3-May-2014	08:00	1.5	W
3-May-2014	09:00	0.6	WNW
3-May-2014	10:00	0.9	WSW
3-May-2014	11:00	0.9	W
3-May-2014	12:00	1.3	W
3-May-2014	13:00	1.6	N
3-May-2014	14:00	1.7	W
3-May-2014	15:00	2.5	SW
3-May-2014	16:00	2.5	SE
3-May-2014	17:00	1.9	SE
3-May-2014	18:00	1.7	SE
3-May-2014	19:00	1.1	SE
3-May-2014	20:00	0.8	SE
3-May-2014	21:00	0.6	W
3-May-2014	22:00	0.8	WSW
3-May-2014	23:00	1.1	WNW
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8-May-2014	19:00	1.4	WSW
8-May-2014	20:00	1.2	WSW
8-May-2014	21:00	1.1	WSW
8-May-2014	22:00	1	SW
8-May-2014	23:00	1.3	SSW
9-May-2014	00:00	1.1	W
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9-May-2014	03:00	1.2	WSW
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9-May-2014	10:00	2.7	SW
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9-May-2014	16:00	2.2	SW
9-May-2014	17:00	2.2	WSW
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9-May-2014	22:00	1.2	SW
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10-May-2014	00:00	1	SW
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11-May-2014	18:00	1.2	WNW
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11-May-2014	20:00	0.8	W
11-May-2014	21:00	0.5	SSW
11-May-2014	22:00	0.5	S
11-May-2014	23:00	0.5	S
12-May-2014	00:00	0.6	SSW
12-May-2014	01:00	0.3	SSW
12-May-2014	02:00	0.3	SSW
12-May-2014	03:00	1.1	SSW
12-May-2014	04:00	1.2	WNW
12-May-2014	05:00	0.9	W
12-May-2014	06:00	0.8	N
12-May-2014	07:00	1.3	N
12-May-2014	08:00	1.6	W
12-May-2014	09:00	2	W
12-May-2014	10:00	2.7	W
12-May-2014	11:00	3	WNW
12-May-2014	12:00	3.3	W
12-May-2014	13:00	2.8	W
12-May-2014	14:00	2.7	WSW
12-May-2014	15:00	2.3	W
12-May-2014	16:00	2.2	WNW
12-May-2014	17:00	1.3	SW
12-May-2014	18:00	1.4	SSW
12-May-2014	19:00	1.2	W
12-May-2014	20:00	1.6	W
12-May-2014	21:00	1.2	W
12-May-2014	22:00	1.7	W
12-May-2014	23:00	1.9	W
13-May-2014	00:00	1.9	W
13-May-2014	01:00	1.3	SSW
13-May-2014	02:00	1.1	SSW
13-May-2014	03:00	1.4	SW
13-May-2014	04:00	1.4	SSW
13-May-2014	05:00	0.8	SSW
13-May-2014	06:00	0.5	SSW

13-May-2014	07:00	1	W
13-May-2014	08:00	1.1	WNW
13-May-2014	09:00	1.7	W
13-May-2014	10:00	2.1	W
13-May-2014	11:00	2.2	W
13-May-2014	12:00	2.4	N
13-May-2014	13:00	1.7	NNE
13-May-2014	14:00	2.1	W
13-May-2014	15:00	2.2	WSW
13-May-2014	16:00	2.2	WNW
13-May-2014	17:00	1.7	WNW
13-May-2014	18:00	1.4	NW
13-May-2014	19:00	0.6	WNW
13-May-2014	20:00	0.6	W
13-May-2014	21:00	0.3	WNW
13-May-2014	22:00	0.3	W
13-May-2014	23:00	0.6	W
14-May-2014	00:00	0.5	W
14-May-2014	01:00	0.3	W
14-May-2014	02:00	0.1	SSW
14-May-2014	03:00	0.5	W
14-May-2014	04:00	0.5	W
14-May-2014	05:00	0.5	W
14-May-2014	06:00	0.5	W
14-May-2014	07:00	0.8	W
14-May-2014	08:00	0.8	W
14-May-2014	09:00	1.1	W
14-May-2014	10:00	1.6	W
14-May-2014	11:00	1.7	W
14-May-2014	12:00	2.6	WNW
14-May-2014	13:00	3	WNW
14-May-2014	14:00	3	W
14-May-2014	15:00	2.8	WSW
14-May-2014	16:00	2.5	W
14-May-2014	17:00	2.3	W
14-May-2014	18:00	2.1	W
14-May-2014	19:00	1.3	W

14-May-2014	20:00	1.6	WNW
14-May-2014	21:00	1.1	W
14-May-2014	22:00	1.4	W
14-May-2014	23:00	1.3	W
15-May-2014	00:00	1.6	WNW
15-May-2014	01:00	1.6	WSW
15-May-2014	02:00	1.2	WSW
15-May-2014	03:00	1.3	WSW
15-May-2014	04:00	1.1	W
15-May-2014	05:00	0.9	WSW
15-May-2014	06:00	0.8	N
15-May-2014	07:00	1.1	N
15-May-2014	08:00	1.7	SW
15-May-2014	09:00	2.2	SW
15-May-2014	10:00	2.5	W
15-May-2014	11:00	2.3	WSW
15-May-2014	12:00	2.5	S
15-May-2014	13:00	2.8	SSE
15-May-2014	14:00	2.2	W
15-May-2014	15:00	1.4	W
15-May-2014	16:00	1.4	SW
15-May-2014	17:00	1.1	SW
15-May-2014	18:00	1.1	WSW
15-May-2014	19:00	0.9	N
15-May-2014	20:00	1.1	WSW
15-May-2014	21:00	1.2	W
15-May-2014	22:00	1.6	W
15-May-2014	23:00	1.7	N
16-May-2014	00:00	1.3	N
16-May-2014	01:00	0.8	S
16-May-2014	02:00	0.3	WSW
16-May-2014	03:00	0.6	W
16-May-2014	04:00	0.8	S
16-May-2014	05:00	1	SW
16-May-2014	06:00	0.1	W
16-May-2014	07:00	0.1	W
16-May-2014	08:00	0.3	W

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16-May-2014	09:00	0.8	SW	
16-May-2014	10:00	0.9	SW	
16-May-2014	11:00	1.4	S	
16-May-2014	12:00	2.4	W	
16-May-2014	13:00	1.9	SSW	
16-May-2014	14:00	1.7	SW	
16-May-2014	15:00	1.9	SW	
16-May-2014	16:00	1.1	SSW	
16-May-2014	17:00	1.1	W	
16-May-2014	18:00	0.8	W	
16-May-2014	19:00	0.8	NNE	
16-May-2014	20:00	1.1	S	
16-May-2014	21:00	1	NNE	
16-May-2014	22:00	0.8	NNE	
16-May-2014	23:00	0.8	SW	
17-May-2014	00:00	0.8	W	
17-May-2014	01:00	0.6	W	
17-May-2014	02:00	0.6	SSE	
17-May-2014	03:00	0.6	W	
17-May-2014	04:00	0.6	W	
17-May-2014	05:00	0.6	W	
17-May-2014	06:00	0.6	SW	
17-May-2014	07:00	0.5	WNW	
17-May-2014	08:00	0.6	ESE	
17-May-2014	09:00	0.5	SSW	
17-May-2014	10:00	1.6	W	
17-May-2014	11:00	1.9	SSW	
17-May-2014	12:00	2.2	W	
17-May-2014	13:00	1.9	SW	
17-May-2014	14:00	1.7	W	
17-May-2014	15:00	1.7	W	
17-May-2014	16:00	2.2	W	
17-May-2014	17:00	1.7	W	
17-May-2014	18:00	1.7	WSW	
17-May-2014	19:00	1.7	W	
17-May-2014	20:00	1.4	W	
17-May-2014	21:00	1.4	SW	

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19-May-2014	12:00	2.1	NNE	
19-May-2014	13:00	1.4	NE	
19-May-2014	14:00	1.9	ENE	
19-May-2014	15:00	1.9	NE	
19-May-2014	16:00	1.7	N	
19-May-2014	17:00	2.2	NE	
19-May-2014	18:00	1.9	NE	
19-May-2014	19:00	2.4	N	
19-May-2014	20:00	1.7	NNE	
19-May-2014	21:00	1.9	NNE	
19-May-2014	22:00	1.7	NNE	
19-May-2014	23:00	2.2	NNE	
20-May-2014	00:00	2.1	NE	
20-May-2014	01:00	1.7	ENE	
20-May-2014	02:00	1.2	ENE	
20-May-2014	03:00	1.4	ENE	
20-May-2014	04:00	1.1	NE	
20-May-2014	05:00	1.1	NE	
20-May-2014	06:00	1.1	NNE	
20-May-2014	07:00	1.7	NE	
20-May-2014	08:00	1.7	N	
20-May-2014	09:00	1.9	N	
20-May-2014	10:00	2.1	NE	
20-May-2014	11:00	2	N	
20-May-2014	12:00	1.9	NE	
20-May-2014	13:00	1.9	N	
20-May-2014	14:00	2.7	NNE	
20-May-2014	15:00	2.1	WNW	
20-May-2014	16:00	2.4	NNE	
20-May-2014	17:00	1.6	NNE	
20-May-2014	18:00	1.4	NE	
20-May-2014	19:00	1.1	ENE	
20-May-2014	20:00	0.8	NE	
20-May-2014	21:00	1.2	NE	
20-May-2014	22:00	1	NNE	
20-May-2014	23:00	1.1	N	

21-May-2014	00:00	0.8	N	
21-May-2014	01:00	0.8	NNE	
21-May-2014	02:00	0.6	WNW	
21-May-2014	03:00	0.8	E	
21-May-2014	04:00	0.8	NNE	
21-May-2014	05:00	0.3	W	
21-May-2014	06:00	0.3	W	
21-May-2014	07:00	0.6	S	
21-May-2014	08:00	0.3	W	
21-May-2014	09:00	0.1	SW	
21-May-2014	10:00	0.5	S	
21-May-2014	11:00	1.7	W	
21-May-2014	12:00	1.7	WSW	
21-May-2014	13:00	2.4	SSW	
21-May-2014	14:00	1.1	SSW	
21-May-2014	15:00	1.4	SSW	
21-May-2014	16:00	2.1	S	
21-May-2014	17:00	1.4	SSW	
21-May-2014	18:00	1.7	W	
21-May-2014	19:00	0.9	W	
21-May-2014	20:00	1	W	
21-May-2014	21:00	0.8	WNW	
21-May-2014	22:00	1.1	N	
21-May-2014	23:00	0.8	W	
22-May-2014	00:00	0.6	NE	
22-May-2014	01:00	0.1	W	
22-May-2014	02:00	0.1	W	
22-May-2014	03:00	0.5	SW	
22-May-2014	04:00	0.3	SW	
22-May-2014	05:00	0.1	WSW	
22-May-2014	06:00	0.3	SSW	
22-May-2014	07:00	0.1	WSW	
22-May-2014	08:00	0.8	WSW	
22-May-2014	09:00	1.6	WSW	
22-May-2014	10:00	1.9	WSW	
22-May-2014	11:00	2.2	SSW	
22-May-2014	12:00	2.4	WSW	

22-May-2014	13:00	2.2	WSW
22-May-2014	14:00	2.1	WSW
22-May-2014	15:00	2.2	NE
22-May-2014	16:00	1.7	NNE
22-May-2014	17:00	1.7	ENE
22-May-2014	18:00	1.6	NE
22-May-2014	19:00	1.4	NNE
22-May-2014	20:00	1	NNE
22-May-2014	21:00	1.1	NE
22-May-2014	22:00	1.1	NE
22-May-2014	23:00	1	NNE
23-May-2014	00:00	0.8	N
23-May-2014	01:00	0.6	N
23-May-2014	02:00	0.8	N
23-May-2014	03:00	0.5	NNE
23-May-2014	04:00	0.8	NNE
23-May-2014	05:00	0.8	N
23-May-2014	06:00	0.6	NNE
23-May-2014	07:00	0.8	NNE
23-May-2014	08:00	1	NNE
23-May-2014	09:00	0.8	NE
23-May-2014	10:00	1	NNE
23-May-2014	11:00	1.1	NE
23-May-2014	12:00	1.4	NE
23-May-2014	13:00	1.6	NE
23-May-2014	14:00	1.1	NNE
23-May-2014	15:00	1.1	N
23-May-2014	16:00	1.2	NE
23-May-2014	17:00	0.7	ENE
23-May-2014	18:00	1	ENE
23-May-2014	19:00	0.9	NE
23-May-2014	20:00	0.3	NE
23-May-2014	21:00	0.3	NE
23-May-2014	22:00	0.8	NNE
23-May-2014	23:00	0.5	N
24-May-2014	00:00	0.5	NNE
24-May-2014	01:00	0.5	N

24-May-2014	02:00	0.8	NNE	
24-May-2014	03:00	1.4	NE	
24-May-2014	04:00	0.8	NE	
24-May-2014	05:00	1.2	NE	
24-May-2014	06:00	1.4	NNE	
24-May-2014	07:00	1.3	NE	
24-May-2014	08:00	1.7	N	
24-May-2014	09:00	1.6	N	
24-May-2014	10:00	1.6	N	
24-May-2014	11:00	1.4	NE	
24-May-2014	12:00	1.2	NNE	
24-May-2014	13:00	1.3	N	
24-May-2014	14:00	1.7	NE	
24-May-2014	15:00	2.1	SE	
24-May-2014	16:00	1.4	NE	
24-May-2014	17:00	1.9	W	
24-May-2014	18:00	1.4	W	
24-May-2014	19:00	1.6	W	
24-May-2014	20:00	1.4	S	
24-May-2014	21:00	0.9	S	
24-May-2014	22:00	1.4	S	
24-May-2014	23:00	1.3	ENE	
25-May-2014	00:00	1	SE	
25-May-2014	01:00	0.5	NNW	
25-May-2014	02:00	0.5	NW	
25-May-2014	03:00	0.6	SSW	
25-May-2014	04:00	0.6	SSW	
25-May-2014	05:00	0.6	WSW	
25-May-2014	06:00	0.8	W	
25-May-2014	07:00	0.6	NNE	
25-May-2014	08:00	1.3	N	
25-May-2014	09:00	1.2	N	
25-May-2014	10:00	1.7	N	
25-May-2014	11:00	1.9	WNW	
25-May-2014	12:00	2.1	N	
25-May-2014	13:00	2	NE	
25-May-2014	14:00	2.4	ENE	

25-May-2014	15:00	2.5	NE	
25-May-2014	16:00	2.1	NNE	
25-May-2014	17:00	1.7	ENE	
25-May-2014	18:00	1.4	N	
•	19:00	0.9	NE	
25-May-2014	20:00	1.4	W	
25-May-2014				
25-May-2014	21:00	1.6	ESE	
25-May-2014	22:00	1.9	WNW	
25-May-2014	23:00	1.6	WNW	
26-May-2014	00:00	1.6	NE	
26-May-2014	01:00	1.7	WSW	
26-May-2014	02:00	1.9	WSW	
26-May-2014	03:00	1.6	W	
26-May-2014	04:00	1.9	WNW	
26-May-2014	05:00	1.9	W	
26-May-2014	06:00	1.7	WNW	
26-May-2014	07:00	1.6	W	
26-May-2014	08:00	2.1	W	
26-May-2014	09:00	2.1	WNW	
26-May-2014	10:00	2.3	WNW	
26-May-2014	11:00	3	WNW	
26-May-2014	12:00	3.8	WNW	
26-May-2014	13:00	2.7	NE	
26-May-2014	14:00	3	WNW	
26-May-2014	15:00	2.7	WNW	
26-May-2014	16:00	2.5	WNW	
26-May-2014	17:00	1.9	WNW	
26-May-2014	18:00	1.4	W	
26-May-2014	19:00	1.1	W	
26-May-2014	20:00	1.2	WSW	
26-May-2014	21:00	1.4	WNW	
26-May-2014	22:00	1.3	WNW	
26-May-2014	23:00	1.1	W	
27-May-2014	00:00	1.3	W	
27-May-2014	01:00	1.4	WSW	
27-May-2014	02:00	1.6	W	
27-May-2014	03:00	1.2	W	
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27-May-2014	04:00	1.3	WNW	
27-May-2014	05:00	1.4	WNW	
27-May-2014	06:00	1.4	W	
27-May-2014	07:00	1.1	WNW	
27-May-2014	08:00	1.1	WNW	
27-May-2014	09:00	1.2	WSW	
27-May-2014	10:00	1.6	WSW	
27-May-2014	11:00	1.4	WSW	
27-May-2014	12:00	2.4	W	
27-May-2014	13:00	1.6	SW	
27-May-2014	14:00	1.1	WSW	
27-May-2014	15:00	1.4	W	
27-May-2014	16:00	1.2	W	
27-May-2014	17:00	0.8	WNW	
27-May-2014	18:00	0.9	WNW	
27-May-2014	19:00	0.8	WNW	
27-May-2014	20:00	0.8	SW	
27-May-2014	21:00	1	SW	
27-May-2014	22:00	1.1	W	
27-May-2014	23:00	1.1	WSW	
28-May-2014	00:00	0.6	W	
28-May-2014	01:00	0.8	W	
28-May-2014	02:00	0.6	SW	
28-May-2014	03:00	0.6	WSW	
28-May-2014	04:00	0.6	WNW	
28-May-2014	05:00	0.6	W	
28-May-2014	06:00	0.6	NW	
28-May-2014	07:00	0.3	N	
28-May-2014	08:00	0.5	WSW	
28-May-2014	09:00	0.6	WNW	
28-May-2014	10:00	1.1	WNW	
28-May-2014	11:00	1.2	WNW	
28-May-2014	12:00	0.8	WNW	
28-May-2014	13:00	0.9	WNW	
28-May-2014	14:00	0.5	WSW	
28-May-2014	15:00	0.5	W	
28-May-2014	16:00	0.8	WSW	

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28-May-2014	17:00	0.6	SW
28-May-2014	18:00	0.5	SW
28-May-2014	19:00	0.1	SW
28-May-2014	20:00	0.5	SW
28-May-2014	21:00	0.3	WSW
28-May-2014	22:00	0.1	WSW
28-May-2014	23:00	0.7	SW
29-May-2014	00:00	0.1	WSW
29-May-2014	01:00	0.5	WNW
29-May-2014	02:00	0.8	WNW
29-May-2014	03:00	0.9	WNW
29-May-2014	04:00	0.6	WNW
29-May-2014	05:00	0.8	WSW
29-May-2014	06:00	0.6	WNW
29-May-2014	07:00	0.9	WSW
29-May-2014	08:00	0.6	WSW
29-May-2014	09:00	0.6	SW
29-May-2014	10:00	0.8	WNW
29-May-2014	11:00	0.6	SW
29-May-2014	12:00	0.9	WNW
29-May-2014	13:00	0.6	WNW
29-May-2014	14:00	0.8	WNW
29-May-2014	15:00	0.6	WNW
29-May-2014	16:00	1.2	WNW
29-May-2014	17:00	1.3	SW
29-May-2014	18:00	1	WNW
29-May-2014	19:00	0.3	WNW
29-May-2014	20:00	0.5	WNW
29-May-2014	21:00	0.1	WNW
29-May-2014	22:00	0.5	WNW
29-May-2014	23:00	0.5	WNW
30-May-2014	00:00	1.8	WNW
30-May-2014	01:00	1.5	WNW
30-May-2014	02:00	1.6	W
30-May-2014	03:00	1.3	WNW
30-May-2014	04:00	0.3	W
30-May-2014	05:00	0.5	W
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30-May-2014	06:00	0.5	WNW	
30-May-2014	07:00	0.5	WNW	
30-May-2014	08:00	0.3	SW	
30-May-2014	09:00	0.1	W	
30-May-2014	10:00	0.3	SSW	
30-May-2014	11:00	0.5	SW	
30-May-2014	12:00	0.5	W	
30-May-2014	13:00	1.1	WSW	
30-May-2014	14:00	1.7	SW	
30-May-2014	15:00	1.9	SW	
30-May-2014	16:00	1.4	WNW	
30-May-2014	17:00	1.4	WNW	
30-May-2014	18:00	1.1	WNW	
30-May-2014	19:00	0.9	WSW	
30-May-2014	20:00	0.3	WSW	
30-May-2014	21:00	0.3	SSW	
30-May-2014	22:00	0.1	WSW	
30-May-2014	23:00	0.1	WSW	
31-May-2014	00:00	1.7	WNW	
31-May-2014	01:00	1.4	WSW	
31-May-2014	02:00	1.2	WNW	
31-May-2014	03:00	1.1	WSW	
31-May-2014	04:00	0.9	WNW	
31-May-2014	05:00	0.8	WSW	
31-May-2014	06:00	0.8	WSW	
31-May-2014	07:00	0.5	WNW	
31-May-2014	08:00	1	WSW	
31-May-2014	09:00	0.9	WNW	
31-May-2014	10:00	0.9	WSW	
31-May-2014	11:00	1.4	SW	
31-May-2014	12:00	1.4	SW	
31-May-2014	13:00	1.9	WSW	
31-May-2014	14:00	2.4	WSW	
31-May-2014	15:00	2	W	
31-May-2014	16:00	2	WSW	
31-May-2014	17:00	2.1	WSW	
31-May-2014	18:00	2.3	WSW	

31-May-2014	19:00	2.7	W
31-May-2014	20:00	2.7	WSW
31-May-2014	21:00	1.6	WNW
31-May-2014	22:00	2.2	WNW
31-May-2014	23:00	1.9	WSW

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

Contract No. KL/2012/02

Kai Tak Development - Stage 3A Infrastructure at Former North Apron Area Impact Air and Noise Monitoring Schedule for May 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-May	2-May	3-May
					1 L., TOD V2	
					1 hr TSP X3	
					Noise	
					(M9)	
4-May	5-May	6-May	7-May	8-May	9-May	10-May
			1 hr TSP X3			
			Noise (M3 and M4)	Noise		
				(M9)		
11.75	24 hr TSP			15.55	24 hr TSP	
11-May	12-May	13-May	14-May	15-May	16-May	17-May
	1 hr TSP X3				1 hr TSP X3	
	Noise (M3 and M4)					
				Noise		
				(M9)		
				24 hr TSP		
18-May	19-May	20-May	21-May	22-May	23-May	24-May
				1 hr TSP X3		
		Noise		Noise (M3 and M4)		
		(M9)				
		(/				
			24 hr TSP			
25-May	26-May	27-May	28-May	29-May	30-May	31-May
			1 hr TSP X3			
			Noise (M3 and M4)			
		Noise	·			
		(M9)				
		24 hr TSP			24 hr TSP	
		24 III 1 3F			24 III 1 3F	

Remarks: *The construction nosie monitoring at Station M4 would be conducted at Rooftop of Cognitio College from 28 August 2013 onwards.

Air Quality Monitoring Station

Noise Monitoring Station

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

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 June 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jun			4-Jun			
		1 hr TSP X3 Noise (M3 and M4)			1 hr TSP X3 Noise (M9)	
				24 hr TSP		
8-Jun	9-Jun	10-Jun	11-Jun		13-Jun	14-Jun
				1 hr TSP X3 Noise (M3, M4 and M9)		
			24 hr TSP			
15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun
			1 hr TSP X3 Noise (M3 and M4)	Noise (M9)		
		24 hr TSP				
22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun
	24 hr TSP	1 hr TSP X3 Noise (M3 and M4)		Noise (M9)	24 hr TSP	
29-Jun					24 m 13f	
	1 hr TSP X3 Noise (M3 and M4)					

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

Remarks: *The construction nosie monitoring at Station M4 would be conducted at Rooftop of Cognitio College from 28 August 2013 onwards.

Air Quality Monitoring Station

Noise Monitoring Station

AM1(B) -Boundary of KTD/Outside Contractor's site office of Contract KL/2012/02

AM2 - Lee Kau Yan Memorial School

M3 - Cognitio College

M4 - Lee Kau Yan Memorial School

M9 - Tak Long Estate

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

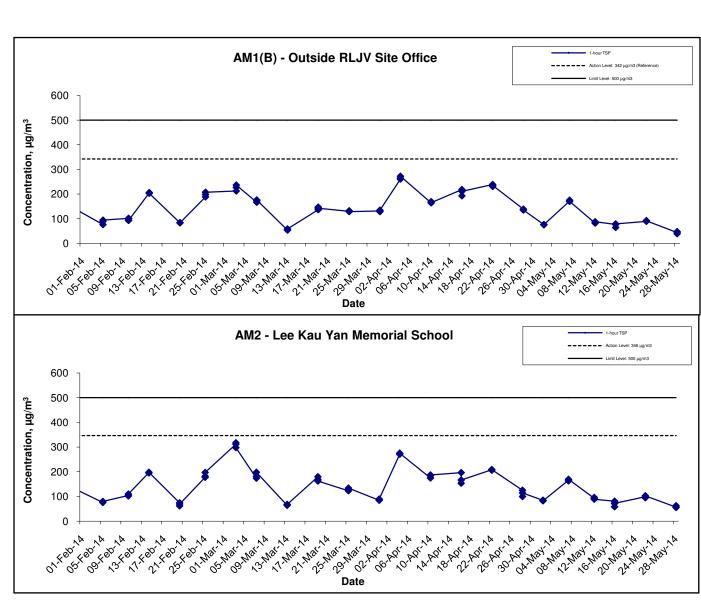
Appendix E - 1-hour TSP Monitoring Results

Location AM1(E	3) - Outside F	LJV Site Office	
Date	Time	Weather	Particulate Concentration (μg/m³)
2-May-14	9:00	Sunny	75.8
2-May-14	10:00	Sunny	74.9
2-May-14	11:00	Sunny	75.5
7-May-14	8:33	Cloudy	171.5
7-May-14	9:33	Cloudy	175.2
7-May-14	10:33	Cloudy	170.0
12-May-14	13:00	Cloudy	81.2
12-May-14	14:00	Cloudy	85.1
12-May-14	15:00	Cloudy	87.5
16-May-14	13:00	Sunny	76.1
16-May-14	14:00	Sunny	63.8
16-May-14	15:00	Sunny	78.3
22-May-14	9:00	Cloudy	89.1
22-May-14	10:00	Cloudy	92.0
22-May-14	11:00	Cloudy	91.1
28-May-14	9:00	Sunny	43.5
28-May-14	10:00	Sunny	46.9
28-May-14	11:00	Sunny	38.2
		Average	89.8
		Maximum	175.2
		Minimum	38.2

Location AM2 -	Lee Kau Yan	Memorial School	
Date	Time	Weather	Particulate Concentration (μg/m³)
2-May-14	13:00	Sunny	83.8
2-May-14	14:00	Sunny	84.5
2-May-14	15:00	Sunny	82.1
7-May-14	13:05	Cloudy	165.5
7-May-14	14:05	Cloudy	162.9
7-May-14	15:05	Cloudy	169.2
12-May-14	9:00	Cloudy	92.5
12-May-14	10:00	Cloudy	95.6
12-May-14	11:00	Cloudy	88.5
16-May-14	13:00	Sunny	80.3
16-May-14	14:00	Sunny	57.9
16-May-14	15:00	Sunny	72.1
22-May-14	13:00	Cloudy	98.5
22-May-14	14:00	Cloudy	94.4
22-May-14	15:00	Cloudy	102.0
28-May-14	13:00	Sunny	56.2
28-May-14	14:00	Sunny	62.0
28-May-14	15:00	Sunny	54.9
		Average	94.6
		Maximum	169.2
		Minimum	54.9

MA13043/App E - 1hr TSP





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 May 14 Appendix E

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)

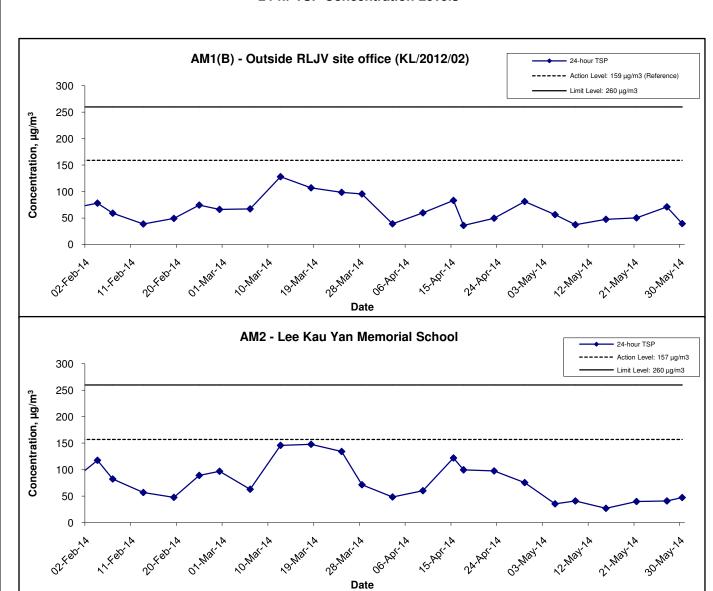
Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
5-May-14	Cloudy	294.6	763.4	3.2781	3.3778	0.0997	3172.8	3196.8	24.0	1.23	1.23	1.23	1765.9	56.5
9-May-14	Cloudy	294.5	760.0	3.2350	3.3012	0.0662	3196.8	3220.8	24.0	1.22	1.22	1.22	1762.6	37.6
15-May-14	Sunny	301.9	756.6	3.6070	3.6897	0.0827	3220.8	3244.8	24.0	1.21	1.21	1.21	1739.1	47.6
21-May-14	Cloudy	298.1	758.6	3.1959	3.2838	0.0879	3244.8	3268.8	24.0	1.22	1.22	1.22	1751.3	50.2
27-May-14	Sunny	302.5	758.7	3.1822	3.3056	0.1234	3268.8	3292.8	24.0	1.21	1.21	1.21	1740.0	70.9
30-May-14	Sunny	303.2	758.3	3.1895	3.2579	0.0684	3292.8	3316.8	24.0	1.21	1.21	1.21	1737.5	39.4
													Min	37.6
													Max	70.9
													Average	50.3

Location AM2 - Lee Kau Yan Memorial School

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-May-14	Cloudy	294.6	763.4	3.2347	3.2973	0.0626	13204.7	13228.7	24.0	1.22	1.22	1.22	1761.5	35.5
9-May-14	Cloudy	294.5	760.0	3.2259	3.2976	0.0717	13228.7	13252.7	24.0	1.22	1.22	1.22	1758.1	40.8
15-May-14	Sunny	301.9	756.6	3.1985	3.2450	0.0465	13252.7	13276.7	24.0	1.20	1.20	1.20	1734.4	26.8
21-May-14	Cloudy	298.1	758.6	3.2511	3.3205	0.0694	13276.7	13300.7	24.0	1.21	1.21	1.21	1746.7	39.7
27-May-14	Sunny	302.5	758.7	3.3025	3.3734	0.0709	13300.7	13324.7	24.0	1.21	1.20	1.20	1735.2	40.9
30-May-14	Sunny	303.2	758.3	3.1639	3.2460	0.0821	13324.7	13348.7	24.0	1.20	1.20	1.20	1732.7	47.4
													Min	26.8
													Max	47.4
													Average	38.5

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
Graphical Presentation of 24-hour TSP Monitoring Results	Date	May 14	Appendi	ix F	CINOIECU

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

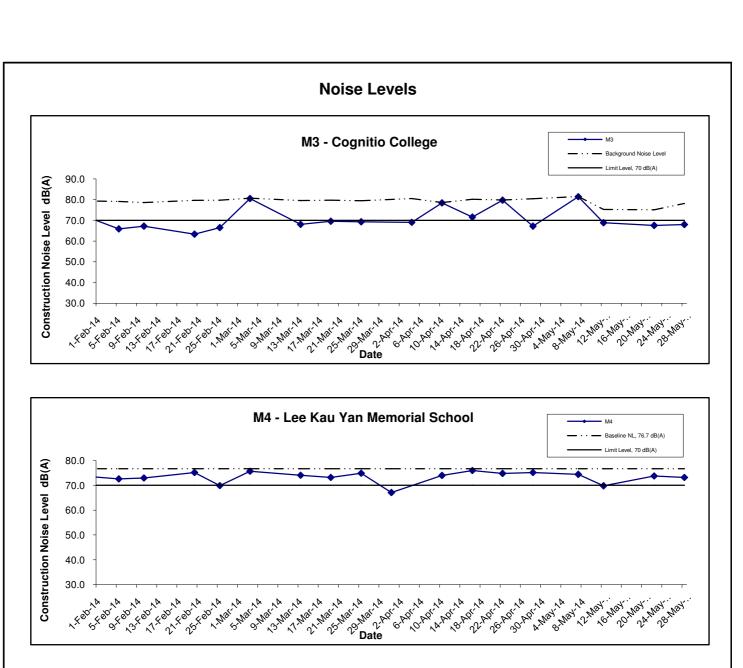
Appendix G - Noise Monitoring Results

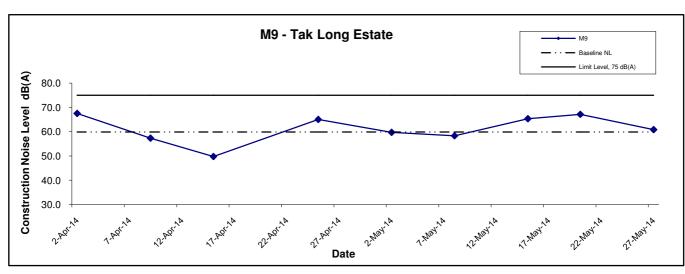
Location M3 -	Cognitio Co	ollege								
			Unit: dB (A) (30-min)							
Date	Time	Weather	Meas	sured Noise I	Level	Background Noise	Construction Noise Level			
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}			
7-May-14	15:30	Cloudy	81.4	83.0	74.8	81.5	81.4 Measured ≦ Baseline			
12-May-14	15:00	Cloudy	76.1	75.2	71.9	75.2	68.8			
22-May-14	15:15	Cloudy	75.8	77.2	73.6	75.1	67.5			
28-May-14	15:00	Sunny	78.5	80.2	75.4	78.1	67.9			

Location M4 -	Lee Kau Ya	n Memorial S	chool							
			Unit: dB (A) (30-min)							
Date	Time	Weather	Meas	sured Noise I	Level	Baseline Level	Construction Noise Level			
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}			
7-May-14	10:00	Cloudy	74.4	75.9	72.7		74.4 Measured ≦ Baseline			
12-May-14	9:20	Cloudy	69.8	71.4	68.1	76.7	69.8 Measured ≦ Baseline			
22-May-14	13:30	Cloudy	73.8	74.3	71.4	76.7	73.8 Measured ≦ Baseline			
28-May-14	14:00	Sunny	73.2	75.1	71.4		73.2 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}				
2-May-14	13:00	Cloudy	59.7	61.3	58.1		59.7 Measured ≦ Baseline				
8-May-14	13:02	Cloudy	62.2	65.1	58.4		58.3				
15-May-14	13:14	Cloudy	66.4	68.8	62.1	59.9	65.3				
20-May-14	14:35	Cloudy	67.9	71.2	60.3		67.2				
27-May-14	13:00	Sunny	63.4	60.2	61.5		60.8				

MA13043/App G - Noise Cinotech





Remarks: The construction noise levels in the Tables in Appendix G were adopted for plotting the graphs

Title Contract No. KL/2012/02
Kai Tak Development - Stage 3A Infrastructure at Former
North Apron Area
Graphical Presentation of Construction Noise Monitoring
Results

Scale		Project	
	N.T.S	No.	MA13043
Date	May 14	Append	ix G



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	140508
Date	8 May 2014
Time	14:00 – 16:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
140508-001	Sand bag bund should be improved to prevent muddy runoff entering public area. (Next to car park)	B 16
	C. Air Quality	
140508-R02	The tarpaulin cover for stockpile should be properly maintained.	C 7
	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.: 140430), item 140430-R01 was found outstanding and remarked as 140508-R02. Review will be needed during next audit section.	

	Name	Signature	Date
Recorded by	Edmond Put	etis)	8 May 2014
Checked by	Dr. Priscilla Choy	NI	8 May 2014

Checklist Reference Number	140514
Date	14 May 2014
Time	14:00 – 15:00

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Water Quality	
140514-R02	Remove silty water under gate near Tsat Po Street.	В 8
		:
	C. Air Quality	
140514-R01	Provide water spraying to breaking works to reduce dust emission.	C 12
	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.	
	- 110 cirriotina delicitory into identifica dalling one hisperiori	
	H. Others	
	• Follow-up on previous audit section (Ref. No.: 140508), all environmental deficiencies	
	have been rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Jason Lai	4~	14 May 2014
Checked by	Dr. Priscilla Choy	WI	14 May 2014

Checklist Reference Number	140522
Date	22 May 2014
Time	14:30 – 16:15

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
140522-R02	Sand bag bund should be provided under hoarding near Tsat Po Street to prevent silty runoff leaking out.	B 16
	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	
140522-R01	General refuse at work area near Sam Chuk Street should be regularly removed to avoid accumulation.	E 1
	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.: 140514), item 140514-R02 was found outstanding and remarked as 140522-R02. Review will be needed during next audit section.	

Name	Signature	Date
Jason Lai	Ja	22 May 2014
Dr. Priscilla Choy	NI	22 May 2014
	Jason Lai	Jason Lai

Checklist Reference Number	140528	
Date	28 May 2014	
Time	14:00 – 15:30	

Ref. No.	Non-Compliance	Related Item No.
	None identified	_
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	~ ~ ~
140528-O01	Sand bags should be provided to gullies near car park to avoid runoff from entering.	B 7
140528-R02	C. Air Quality Water spraying should be provided more frequently to reduce dust emission.	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.: 140522), all environmental deficiencies have been rectified/improved by the Contractor.	

28 May 2014
28 May 2014

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

Event/Action Plan for Construction Noise

EVENT	ACTION					
	ET	IEC	ER	CONTRACTOR		
Action Level	1. Notify ER, IEC and Contractor;	Review the investigation 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	e results of investigation 2. Review the proposed remedial		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	Confirm receipt of	1. Take immediate action to		
being	EPD;	Contractor on the potential	notification of failure in	avoid further exceedance;		
exceeded	2. Repeat measurements to confirm	remedial actions;	writing;	2. Submit proposals for remedial		
	findings;	2. Review Contractor's remedial	2. Notify Contractor;	actions to IEC and ER within 3		
	3. Increase monitoring frequency;	actions whenever necessary to	3. In consolidation with the	working days of notification;		
	4. Identify source and investigate the	assure their effectiveness and	IEC, agree with the	3. Implement the agreed		
	cause of exceedance;	advise the ER accordingly.	Contractor on the remedial	proposals;		

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

Event/Action Plan for Landscape and Visual

EVENT	ACTION				
ACTION LEVEL	ET	IEC	ER	CONTRACTOR	
Design Check	1. Check final	1. Check report.	Undertake remedial design if necessary		
	design conforms to	2. Recommend			
	the requirements	remedial design if			
	of EP and prepare	necessary			
	report.				
Non-conformity on one occasion	1. Identify Source	1. Check report	Notify Contractor	Amend working methods	
	2. Inform IEC and	2. Check Contractor's	2. Ensure remedial measures are properly	2. Rectify damage and	
	ER	working method	implemented	undertake any necessary	
	3. Discuss remedial	3. Discuss with ET and		replacement	
	actions with IEC,	Contractor on possible			
	ER and Contractor	remedial measures			
	4. Monitor remedial	4. Advise ER on			
	actions until	effectiveness of			
	rectification has	proposed remedial			
	been completed	measures.			
		5. Check implementation			
		of remedial measures.			
Repeated Non-conformity	1. Identify Source	1. Check monitoring	1. Notify Contractor	Amend working methods	
	Inform IEC and	report	2. Ensure remedial measures are properly	2. Rectify damage and	

Appendix J - Event Action Plans

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. 	^
Contact Post	 Any vehicle with an open load carrying area should have properly fitted side and tail boards. 	^
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.	^
 Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides. 	^
 Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. 	^
• <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 nonodorous 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	۸
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	۸
	(i) Provision of low noise surfacing in a section of Road L2; and	N/A
	(ii) Provision of structural fins	N/A

	Avoid the sensitive façade of class room facing Road and L4; and	N/A
(ii) & L	Provision of low noise surfacing in a section of Road L2	N/A
	Provision of low noise surfacing in a section of Road L4 ore occupation of Site 1I1; and	N/A
(ii)	Setback of building about 5m from site boundary.	N/A
	back of building about 35m to the northwest direction L3 and 5m at Site 1L2.	N/A
(i)	avoid any sensitive façades with openable window facing the existing Kowloon City Road network;	N/A
(ii)	and 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	N/A
(i)	facades with openable window. 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

All the ventilation fans installed in the below will be provided with silencers or acoustics treatment. (i) SPS (ii) ESS (iii) Tunnel Ventilation Shaft (iv) EFTS depot	N/A N/A N/A N/A
Installation of retractable roof or other equivalent measures	N/A

Construction Water	 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 	N/A N/A N/A N/A
Quality	Marine-based Construction Capital and Maintenance Dredging for Cruise Terminal Mitigation measures for construction of the proposed cruise terminal should follow those recommended in the approved EIA for CT Dredging.	^

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 2,000m³ 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 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.

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Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	^
Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m ³ capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	^
Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m ³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	^
Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.	*

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.	٨
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.	^
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

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	Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts. Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff.	^
	Construction effluent, site run-off and sewage should be properly collected and/or treated.	*
	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.	^
	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.	٨
	Supervisory staff should be assigned to station on site to closely supervise and monitor the works	٨
	Marine water quality monitoring and audit programme shall be implemented for the proposed sediment treatment operation.	^

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Good Site Practices It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to. Recommendations for good site practices during construction activities include: • Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at	^
the site Training of site personnel in proper waste management and chemical waste handling procedures	^
Provision of sufficient waste disposal points and regular collection for disposal	^
 Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers 	^
A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites)	

Waste Reduction Measures	
Good management and control can prevent the	
generation of a significant amount of waste. Waste	
reduction is best achieved at the planning and design	
stage, as well as by ensuring the implementation of good	
site practices. Recommendations to achieve waste	
reduction include:	^
 Sort C&D waste from demolition of the remaining 	
structures to recover recyclable portions such as	
metals	
 Segregation and storage of different types of 	^
waste in different containers, skips or stockpiles to	
enhance reuse or recycling of materials and their	
proper disposal	
Encourage collection of aluminium cans, PET	
	^
bottles and paper by providing separate labelled	
bins to enable these wastes to be segregated from	
other general refuse generated by the work force	
 Any unused chemicals or those with remaining 	٨
functional capacity should be recycled	
 Proper storage and site practices to minimise the 	^
potential for damage or contamination of	
construction materials	
Construction materials	
Dredged Marine Sediment	
breaged Mainte Ocamen	
The basic requirements and precedures for dredged mud	^
The basic requirements and procedures for dredged mud	
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)	

Clisposai site	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	

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 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 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	^
 All dusty materials should be sprayed with water prior to any loading, unloading or transfer 	^
 operation so as to maintain the dusty materials wet 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.	٨
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.	۸
	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: May 2014

Contract No. KL/2012/02

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	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

Name of Department: Civil Engineering and Development Department / Kowloon Development Office

MONTHLY SUMMARY WASTE FLOW TABLE FOR <u>2014</u> (YEAR)

	A	ctual Quantitie	es of Inert C&I) Materials Ge	nerated Month	ly	Actua	al Quantities of	C&D Wastes	Generated Mo	onthly
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	0.0442	0	0	0	0.000	0	0	0	0	0	0.0442
FEB	0.04142	0	0	0	0.012	0	0	0	0	0	0.02945
MAR	0.27205	0	0	0	0.2	0	0	0	0	0	0.07205
APR	0.12566	0	0	0	0.0624	0	0	0	0	0	0.06325
MAY	0.10620	0	0	0	0	0	0	0	0	0	0.1062
JUNE											
SUB- TOTAL	0.5895	0	0	0	0.274	0	0	0	0	0	0.31515
JULY											
AUG											
SEPT											
OCT											
NOV											
DEC											
TOTAL	0.58953	0	0	0	0.274	0	0	0	0	0	0.31515

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	ised in Disposal as Import Fill Metals Paper / Plastics (3) Chemical C						Other, e.g.
Quantity	Concrete (4)	Contract	other	Public Fill	import rin	Metals	Cardboard	Flastics (3)	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.