22612

DEVELOPMENT AT ANDERSON ROAD
安達臣道發展計劃

CHIEF RESIDENT ENGINEER'S OFFICE
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BY POST

Your ref
Our ref 24711/(CV/07/03)/M45/630/(1334)
Date 14 April 2016

Environmental Protection Department
Metro Assessment Group,
27/F, Southorn Centre
130 Hennessy Road, Wan Chai Hong Kong

For the attention of Ms HSU Ping Ping, Alice

Dear Sir

Contract No. CV/2007/03
Development at Anderson Road – Site Formation and Associated Infrastructure Works
Monthly EM&A Report for ID1A, ID2, ID3, ID4 and ID5 – March 2016

Please find attached two hard copies and one electronic copy of monthly EM&A report covering the monitoring period for March 2016 for the captioned Project in accordance with the Environmental Permit (EP-140/2002), Condition 3.3. Five monitoring stations are included in the report and they are namely Kwun Tong Government Secondary School (ID1A), On Yat House (ID2), Sau Nga House (ID3), Sau Ming Primary School (ID4) and Sau Mau Ping Catholic Primary School (ID5).

Please note that ID1A (Kwun Tong Government Secondary School), ID2 (On Yat House) and ID3 (Sau Nga House) will serve the Development of Anderson Road (Schedule 3 DP) and only monitoring stations ID4 (Sau Ming Primary School) and ID5 (Sau Mau Ping Catholic Primary School) will serve both the entire Development of Anderson Road (Schedule 3 DP) as well as the Widening of Po Lam Road (Schedule 2 DP).

The attached report has been certified by the ETL and verified by the IEC and it is therefore submitted for your information according to Environmental Permit, Condition 3.3. Should you have any queries, please do not hesitate to contact my ARE, Ms Heidi Fung, at 6905 0261.

Yours faithfully

Cliff Ko
Senior Resident Engineer

c.c. Mr Paul H T Mok – CE/SD(W), CEDD }w/e
Mr W K Wong – EPO, ECD }w/e
Mr WONG Ka-yu – CSCEC }w/o
Mr Fung Yiu Wah – ETL }w/o (By Fax: 2891-0305)
Mr David Yeung – IEC }w/o (By Fax: 3465-2899)
Mr Chris Lee – Arup }w/o

Response required : No
Date required : NA
Attachments : Yes (1 CD + 2 Reports)

refer to M45/630/(1333)

CK/KOL/HF/syw

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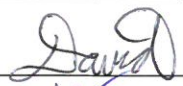
China State Construction Engineering (Hong Kong) Ltd.

Contract No. CV/2007/03

Development at Anderson Road – Site Formation and Associated Infrastructure Works

Monthly EM&A Report for March 2016

April 2016

	Name	Signature
Prepared & Checked:	David Tsang	
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Version: 0 Date: 12 April 2016

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RAMBOLL ENVIRON

Ref.: OAPANDSNEM00_0_1676L.16

12 April 2016

By Post and Fax: 2407 8382

Engineer's Representative
Ove Arup & Partners
Level 5, Festival Walk
80 Tat Chee Avenue
Kowloon Tong, Kowloon
Hong Kong

Attention: Mr. Dennis Leung

Dear Sir,

Re: Contract No. CV/2007/03 (Environmental Permit No. EP -140/2002)
Development at Anderson Road
Site Formation and Associated Infrastructure Works
Monthly EM&A Report for March 2016

Reference is made to the Environmental Team's submission of the draft Monthly EM&A Report for March 2016 received by e-mail on 12 April 2016 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.3 of the Environmental Permit No. EP-140/2002.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully,

David Yeung
Independent Environmental Checker

c.c.	AECOM	Attn.: Mr. Y. W. Fung	Fax: 3922 9797
	CSCEC	Attn.: Mr. Holmes Wong	Fax: 2702 6553

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EXECUTIVE SUMMARY

The Project "Development at Anderson Road – Site Formation and Associated Infrastructure Works" (hereafter called "the Project") is proposed to form platforms for housing development and associated uses in area of about 20 hectares, and to carry out necessary infrastructural upgrading or improvement works to cater for the proposed development.

China State Construction Engineering (Hong Kong) Limited (CSCE) was commissioned as the Contractor of the Project. AECOM Asia Co. Ltd. (AECOM) was employed by CSCE as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project.

The impact EM&A for the Project includes air quality and noise monitoring. The EM&A programme for Sau Ming Primary School (ID 4) and Sau Mau Ping Catholic Primary School (ID 5) commenced on 1 May 2008, while for Kwun Tong Government Secondary School (ID 1A), On Yat House (ID 2) and Sau Nga House (ID 3) commenced on 1 June 2008.

The monitoring stations ID 4 & ID 5 will serve both the entire Development of Anderson Road (Schedule 3 Designated Project (DP)) project as well as the Widening of Po Lam Road (Schedule 2 DP) project.

The construction for the Widening of Po Lam Road (Schedule 2 DP) project was commenced on 21 September 2011.

This report documents the findings of EM&A works for ID 1A, ID 2, ID 3, ID 4 and ID 5 conducted in the period between 1 and 31 March 2016. As informed by the Contractor, construction activities in the reporting period were:

- Slope stabilization and upgrading works at Portion C and E
- Earthwork and C&D stockpile at Portion A and C
- Temporary traffic arrangement and road work at J/O Po Lam Road, J/O Sau Mau Ping Road and J/O Lee On Road
- Toe / Berm planter and platform drainage construction on slope
- Trench excavation and drainage works at public road
- Installation of permanent railings at main site and slope berm
- Brick laying at footpath at L2 road
- Storm Water tank and main site drainage clearing and remedial works
- Installation of watermain downpipe at Po Lam Road CP2, Lee On Road Sewer A and Sau Mau Ping Road Sewer B
- Demolition of site hoarding
- E & M works at footbridges
- Lift installation works at footbridges
- Cement decoration works at footbridges and road L1 subway
- Installation glazing works at footbridge A
- Installation of metal canopy of bus stop
- Erection of scaffoldings at footbridge A
- Launching works at footbridge A
- Installation of Planter Plot at Footbridges

Breaches of Action and Limit Levels for Air Quality

All 1-hour TSP and 24-hour TSP results were below the Action and Limit Levels in the reporting month.

Breaches of Action and Limit Levels for Noise

According to the information provided by the Contractor, no Action Level exceedance was recorded since no noise related complaint was received in the reporting month.

No exceedance of Limit Level of noise was recorded in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

According to the information provided by the Contractor, no environmental complaint and no notification of summons and successful prosecution were received in the reporting month.

Reporting Changes

There was no reporting change in the reporting month.

Future Key Issues

Key issues to be considered in the coming month included:-

- Properly store and label oil drums and chemical containers placed on site;
- Proper chemicals, chemical wastes and wastes management;
- Maintenance works should be carried out within roofed, paved areas with proper drainage system to handle run-off from maintenance works;
- Collection and segregation of construction waste and general refuse should be carried out properly and regularly;
- Site runoff should be properly collected and treated prior to discharge;
- Regular review and maintenance of drainage systems and desilting facilities;
- Exposed slopes/soil stockpiles should be properly treated to avoid generation of silty surface run-off during rainstorm;
- Proper mitigation measures should be provided to avoid relocation of treated contaminated soil;
- Regular review and maintenance of wheel washing facilities provided at all site entrances/exits;
- Suppress dust generated from work processes with use of bagged cements, earth movements, drilling works, breaking works, excavation activities, exposed areas/slopes/soil stockpiles and haul road traffic;
- Conduct regular inspection of the working machineries within works area to avoid any dark smoke emission and oil leakage;
- Quieter powered mechanical equipment should be used;
- Provision of proper and effective noise control measures, such as erection of movable noise barriers during blasting, breaking and drilling works and at crushing plant works area and provision of acoustic material wrapping to breaking tips of breakers; and
- Proper protection and regular inspection of existing trees, transplanted/retained trees.

1 INTRODUCTION

1.1 Background

1.1.1 The Project site is located in the East Kowloon District. It is bounded by Anderson Road to the north, the realigned Sau Mau Ping Road to the south, Po Lam Road to the east, and Lee On Road and Shun On Road to the west.

1.1.2 The objective of the Project "Development at Anderson Road Site Formation and Associated Infrastructure Works" under Contract CV/2007/03 (hereafter called "the Project") is to provide land for constructing public housing and government and public facilities. The development will provide 16,100 public housing units for 48,000 people in phases between 2015 and 2016.

1.1.3 The scope of works of this Project includes construction of site formation, roads, drains and upgrading of existing infrastructure to provide usable land of about 20 hectares for housing and associated government, institution or community uses at the site between existing Anderson Road Quarry and Sau Mau Ping Road in Kwun Tong District.

1.1.4 The Project is anticipated to complete in the fourth quarter of 2015.

1.1.5 Part of the Project involving widening of existing Po Lam Road is a designated project and is governed by an Environmental Permit (EP) EP-140/2002, while the rest of the Project is non-designated. Baseline monitoring covering the entire Project site was undertaken and baseline monitoring report was prepared prior to commencement of construction of the Project in accordance with Conditions 3.2 and 3.4 of the EP (EP-140/2002) and the Environmental Monitoring and Audit (EM&A) Manual. The construction for the Widening of Po Lam Road was commenced on 21 September 2011.

1.1.6 According to the EP and the EM&A Manual of the Project, there is a need of an EM&A programme including air quality and noise monitoring.

1.1.7 The EM&A programme for Sau Ming Primary School (ID 4) and Sau Mau Ping Catholic Primary School (ID 5) commenced on 1 May 2008, while for Kwun Tong Government Secondary School (ID 1A), On Yat House (ID 2) and Sau Nga House (ID 3) commenced on 1 June 2008.

1.1.8 The monitoring stations ID 4 & ID 5 will serve both the entire Development of Anderson Road (Schedule 3 Designated Project (DP)) project as well as the Widening of Po Lam Road. (Schedule 2 DP) project.

1.1.9 AECOM Asia Co. Ltd. (AECOM) was employed by the Contractor, China State Construction Engineering (Hong Kong) Limited (CSCE), as the Environmental Team (ET) to undertake the EM&A works for the Project. In accordance with the EM&A Manual of the Project, environmental monitoring of air quality, noise and environmental site inspections would be required for this Project.

1.2 Scope of Report

1.2.1 This is the ninety-fifth monthly EM&A Report under the Contract CV/2007/03 - Development at Anderson Road – Site Formation and Associated Infrastructure Works. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Project in March 2016 for ID 1A, ID 2, ID 3, ID 4 and ID 5.

1.3 Project Organization

1.3.1 The project organization structure is shown in Appendix A. The key personnel contact names and numbers are summarized in Table 1.1.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
ER (Ove Arup)	Chief Resident Engineer	Dennis Leung	3656 3000	3656 3100
	Senior Resident Engineer	Michael Wright	3656 3000	3656 3100
	Assistant Resident Engineer (Civil)	Heidi Fung	2407 0300	3656 3100
IEC (Ramboll Environ)	Independent Environmental Checker	David Yeung	3465 2888	3465 2899
Contractor (CSCE)	Site Agent	Holmes Wong	2704 2095	2702 6553
	Environmental Officer	Thomas Cheung	2704 2095	2702 6553
ET (AECOM)	ET Leader	Yiu Wah Fung	3922 9366	2317 7609

1.4 Summary of Construction Works

1.4.1 As informed by the Contractor, the Contactor has carried out the following major activities in the reporting month:-

- Slope stabilization and upgrading works at Portion C and E
- Earthwork and C&D stockpile at Portion A and C
- Temporary traffic arrangement and road work at J/O Po Lam Road, J/O Sau Mau Ping Road and J/O Lee On Road
- Toe / Berm planter and platform drainage construction on slope
- Trench excavation and drainage works at public road
- Installation of permanent railings at main site and slope berm
- Brick laying at footpath at L2 road
- Storm Water tank and main site drainage clearing and remedial works
- Installation of watermain downpipe at Po Lam Road CP2, Lee On Road Sewer A and Sau Mau Ping Road Sewer B
- Demolition of site hoarding
- E & M works at footbridges
- Lift installation works at footbridges
- Cement decoration works at footbridges and road L1 subway
- Installation glazing works at footbridge A
- Installation of metal canopy of bus stop
- Erection of scaffoldings at footbridge A
- Launching works at footbridge A
- Installation of Planter Plot at Footbridges

1.4.2 The general layout plan of the Project site showing the contract area is shown in Figure 1.1.

1.4.3 The environmental mitigation measures implementation schedule are presented in Appendix B.

1.5 Summary of EM&A Programme Requirements

1.5.1 The EM&A programme required environmental monitoring for air quality, noise and environmental site inspections for air quality, noise, water quality, chemical and waste management. The EM&A requirements for each parameter described in the following sections include:-

- All monitoring parameters;
- Monitoring schedules for the reporting month and forthcoming months;
- Action and Limit levels for all environmental parameters;
- Event / Action Plan;
- Environmental mitigation measures, as recommended in the Project EIA study final report; and
- Environmental requirement in contract documents.

2 AIR QUALITY MONITORING

2.1 Monitoring Requirements

2.1.1 In accordance with the EM&A Manual, 1-hour and 24-hour TSP levels at 5 air quality monitoring stations were established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days. The Action and Limit level of the air quality monitoring is provided in Appendix C.

2.2 Monitoring Equipment

2.2.1 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at each designated monitoring station. The HVS meets all the requirements of the EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in Table 2.1.

Table 2.1 Air Quality Monitoring Equipment

Equipment	Brand and Model
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3 and LD-3B)
High Volume Sampler (24-hour TSP)	Tisch Total Suspended Particulate Mass Flow Controlled High Volume Air Sampler (Model No. TE-5170 & GMW-2310)

2.3 Monitoring Locations

2.3.1 Monitoring stations, ID 2, ID 3, ID 4 and ID 5, were set up at the proposed locations in accordance with EM&A Manual, while monitoring station, ID 1A, was set up at a location agreed by the ER and IEC. Figure 2.1 shows the locations of the monitoring stations. Table 2.2 describes the details of the monitoring stations.

Table 2.2 Locations of Air Quality Monitoring Stations

ID	Location	Monitoring Station
1A	Kwun Tong Government Secondary School	Roof top of the premises facing Anderson Road
2	On Yat House	Roof top of the premises facing Lee On Road
3	Sau Nga House	Roof top of the premises facing Sau Mau Ping Road
4	Sau Ming Primary School	Roof top of the premises
5	Sau Mau Ping Catholic Primary School	Roof top of the premises

2.4 Monitoring Parameters, Frequency and Duration

2.4.1 Table 2.3 summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

Table 2.3 Air Quality Monitoring Parameters, Frequency and Duration

Monitoring Station	Parameter	Frequency and Duration
ID 1A, ID 2, ID 3, ID 4 & ID5	1-hour TSP	At least 3 times every 6 days
	24-hour TSP	At least once every 6 days

2.5 Monitoring Methodology

2.5.1 24-hour TSP Monitoring

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

(i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
(ii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
(iii) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.
(iv) A minimum of 2 meters separation from any supporting structure, measured horizontally is required.
(v) No furnace or incinerator flues nearby.
(vi) Airflow around the sampler was unrestricted.
(vii) Permission was obtained to set up the samplers and access to the monitoring stations.
(viii) A secured supply of electricity was obtained to operate the samplers.
(ix) The sampler was located more than 20 meters from any dripline.
(x) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
(xi) Flow control accuracy was kept within ±2.5% deviation over 24-hour sampling period.

(b) Preparation of Filter Papers

(i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
(ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.
(iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.

(c) Field Monitoring

(i) The power supply was checked to ensure the HVS works properly.
(ii) The filter holder and the area surrounding the filter were cleaned.
(iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
(iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
(v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
(vi) Then the shelter lid was closed and was secured with the aluminium strip.
(vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
(viii) A new flow rate record sheet was set into the flow recorder.
(ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.3 m^3/min, and complied with the range specified in the EM&A Manual (i.e. 0.6-1.7 m^3/min).
(x) The programmable digital timer was set for a sampling period of 24 hrs, and the starting time, weather condition and the filter number were recorded.
(xi) The initial elapsed time was recorded.
(xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
(xiii) The final elapsed time was recorded.
(xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
(xv) It was then placed in a clean plastic envelope and sealed.
(xvi) All monitoring information was recorded on a standard data sheet.
(xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.

(d) Maintenance and Calibration

(i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
(ii) HVSs were calibrated using TE-5025A Calibration Kit upon installation and thereafter at bi-monthly intervals.
(iii) Calibration certificate of the TE-5025A Calibration Kit and the HVSs are provided in Appendix D.

2.5.2 1-hour TSP Monitoring

(a) Measuring Procedures

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

(i) Turn the power on.
(ii) Close the air collecting opening cover.
(iii) Push the "TIME SETTING" switch to [BG].
(iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
(v) Turn the knob at SENSI ADJ position to insert the light scattering plate.
(vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
(vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
(viii) Pull out the knob and return it to MEASURE position.
(ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.
(x) Lower down the air collection opening cover.
(xi) Push "START/STOP" switch to start measurement.

(b) Maintenance and Calibration

(i) The 1-hour TSP meter was calibrated at 1-year intervals against a continuous particulate TEOM Monitor, Series 1400ab. Calibration certificates of the Laser Dust Monitors are provided in Appendix D.

2.6 Monitoring Schedule for the Reporting Month

2.6.1 The schedule for environmental monitoring in March 2016 is provided in Appendix E.

2.7 Monitoring Results

2.7.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in Tables 2.4 and 2.5 respectively. Detailed air quality monitoring results are presented in Appendix F.

Table 2.4 Summary of 1-hour TSP Monitoring Results in the Reporting Period

	Average ($\mu g/m^3$)	Range ($\mu g/m^3$)	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
ID 1A	72.4	65.9 - 78.7	201.5	500
ID 2	72.2	62.4 - 77.4	197.0	500
ID 3	73.0	66.4 - 78.8	203.7	500
ID 4	73.4	67.2 - 76.6	264.6	500
ID 5	73.1	64.7 - 77.6	267.4	500

Table 2.5 Summary of 24-hour TSP Monitoring Results in the Reporting Period

	Average ($\mu g/m^3$)	Range ($\mu g/m^3$)	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
ID 1A	49.5	14.7 - 126.5	170.2	260
ID 2	38.0	14.7 - 58.8	200.0	260
ID 3	40.3	14.5 - 86.8	200.0	260
ID 4	43.9	18.5 - 90.6	181.3	260
ID 5	41.7	21.1 - 82.5	180.8	260

2.7.2 All 1-hour TSP and 24-hour TSP results were below the Action and Limit Levels in the reporting month.

2.7.3 The event action plan is annexed in Appendix I.

2.7.4 Major dust sources during the dust monitoring included construction dust from the Project site, construction dust from other construction sites nearby and nearby traffic emission.

2.7.5 Weather information including wind speed and wind direction is annexed in Appendix H. The information was obtained from Hong Kong Observatory Tseung Kwan O Automatic Weather Station and Anemometer Station.

3 NOISE MONITORING

3.1 Monitoring Requirements

3.1.1 In accordance with the EM&A Manual, impact noise levels should be obtained at 5 noise monitoring stations. Impact noise monitoring was conducted for at least once per week during the construction phase of the Project. The Action and Limit level of the noise monitoring is provided in Appendix C.

3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meter at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in Table 3.1.

Table 3.1 Noise Monitoring Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	B&K (Model No. 2238, 2250L and 2270)
Acoustic Calibrator	Rion (Model No. NC-73)

3.3 Monitoring Locations

3.3.1 Monitoring stations, ID 2, ID3, ID 4 and ID 5, were set up at the proposed locations in accordance with EM&A Manual, while monitoring station, ID 1A, was set up at a location agreed by the ER and IEC. Figure 2.1 shows the locations of the monitoring stations. Table 3.2 describes the details of the monitoring stations.

Table 3.2 Locations of Impact Noise Monitoring Stations

ID	Location	Monitoring Station
1A	Kwun Tong Government Secondary School	1m from the exterior of the roof top façade of the premises facing Anderson Road
2	On Yat House	1m from the exterior of the roof top façade of the premises facing Lee On Road
3	Sau Nga House	1m from the exterior of the roof top façade of the premises facing Sau Mau Ping Road
4	Sau Ming Primary School	1m from the exterior of the roof top façade of the premises facing Sau Mau Ping Road
5	Sau Mau Ping Catholic Primary School	1m from the exterior of the roof top façade of the premises facing Po Lam Road

3.4 Monitoring Parameters, Frequency and Duration

3.4.1 Table 3.3 summarizes the monitoring parameters, frequency and duration of impact noise monitoring.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Monitoring Station	Parameter and Duration	Frequency
ID 1A, ID 2, ID 3, ID 4 & ID5	30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays. L_{eq}, L_{10} and L_{90} would be recorded.	At least once per week

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

(a) The sound level meter was set on a tripod at a height of 1.2 m above the ground.

(b) Façade measurements were made at all monitoring locations.

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

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

(i) frequency weighting: A
(ii) time weighting: Fast
(iii) time measurement: $L_{eq(30\text{-}minutes)}$ during non-restricted hours i.e. 07:00 – 1900 on normal weekdays; $L_{eq(5\text{-}minutes)}$ during restricted hours i.e. 19:00 – 23:00 and 23:00 – 07:00 of normal weekdays, whole day of Sundays and Public Holidays

(e) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.

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

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

(h) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s.

3.5.2 Maintenance and Calibration

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

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

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

3.6 Monitoring Schedule for the Reporting Month

3.6.1 The schedule for environmental monitoring in March 2016 is provided in Appendix E.

3.7 Monitoring Results

3.7.1 The monitoring results for noise are summarized in Table 3.4 and the monitoring data is provided in Appendix G.

Table 3.4 Summary of Impact Noise Monitoring Results in the Reporting Period

	Average, dB(A), $L_{eq\ (30\ mins)}$	Range, dB(A), $L_{eq\ (30\ mins)}$	Limit Level, dB(A), $L_{eq\ (30\ mins)}$
ID 1A	62.3	61.3 - 63.2	*65/70
ID 2	65.6	57.8 - 66.9	75
ID 3	63.1	55.0 - 65.2	75
ID 4	62.3	54.2 - 64.2	*65/70
ID 5	63.0	56.4 - 64.1	*65/70

Note: *Daytime noise Limit Level of 70dB(A) applies to education institutions while 65dB(A) applies during school examination period.

3.7.2 According to the information provided by the Contractor, no noise complaint was received in the reporting month; hence, no Action Level exceedance was recorded.

3.7.3 No Limit Level exceedance of noise was recorded at all monitoring stations in the reporting month.

3.7.4 The event action plan is annexed in Appendix I.

3.7.5 Major noise sources during the noise monitoring included construction noise from the Project site, construction noise from other construction sites nearby, nearby traffic noise and noise from school activities and community noise.

3.7.6 Examination period of Sau Ming Primary School (ID 4) was from 17 March 2016 to 22 March 2016. Thus the daytime noise limit level between the abovementioned period at ID 4 was 65dB(A).

4 ENVIRONMENTAL SITE INSPECTION AND AUDIT

4.1 Site Inspection

4.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. In the reporting month, 5 site inspections were carried out on 3, 10, 17, 24 and 31 March 2016. Particular observations and status of non-compliance issued by IEC are described below.

4.1.2 The Contractor has rectified most of the observations as identified during the environmental site inspections in the reporting month within an agreed time frame. Rectification of the remaining identified items are undergoing by the Contractor. Follow-up inspections on the status on provision of mitigation measures will be conducted to ensure all identified items are mitigated properly.

4.1.3 Air Quality Impact

- Dusty stockpile without coverage was found at Footbridge A. The Contractors should cover it entirely with tarpaulin sheeting to suppress dust generation.
- Stocks of more than 20 bags of cement were observed without coverage at Footbridge A. The Contractor should cover them entirely by impervious sheeting or place them in an area sheltered on the top and the 3 sides.
- Non-Road Mobile Machinery without bearing approved or exempted labels was observed at Footbridge C. The Contractor should affix application information on those machines awaiting EPD issuance of exemption label.
- Dusty material was found on the public road near Footbridge A. The Contractor should remove it to suppress dust generation.
- Dusty material was found on Road L1. The Contractor should remove it to suppress dust generation.

4.1.4 Construction Noise Impact

- The Contractor was reminded to wrap the breaker tip at Po Lam Road with acoustic resistant material to reduce noise nuisance during work. (Reminder)

4.1.5 Water Quality Impact

- The Contractor was reminded to enhance overall capability of wastewater collection and treatment in general site, in order to prevent muddy water being discharged to the public drainage during rainy season. (Reminder)
- General refuse was observed at U-channel at Footbridge C. The Contractor should remove it to prevent blockage.
- General refuse was observed inside the U-channel at Footbridge A. The Contractor should remove it to avoid drainage blockage.
- Turbid water was observed to be discharged near Footbridge A. The Contractor should ensure that wastewater should be treated prior to discharge.
- General refuse on the public road and inside the U-channel near Footbridge B was observed. The Contractor should remove them to prevent drainage from blockage.
- Silt and rubbish were found inside the U-channel near Footbridge C. The Contractor should clear them to avoid drainage blockage.

4.1.6 Chemical and Waste Management

- Construction debris and refuse were found at Footbridge A. The Contractor should remove them to maintain proper housekeeping.

- An air compressor and a chemical container were found without placing in a drip tray at Footbridge A. The Contractor should provide them with a drip tray to prevent oil leakage.

- Chemical containers without placing in a drip tray were observed to be stacked up at Footbridge C. The Contractor should unstack them and place them in a drip tray to prevent oil leakage.

- Oil stain was observed near Footbridge C. The Contractor should remove it and treat it as chemical waste.

4.1.7 Landscape and Visual Impact

- Nil

4.1.8 Miscellaneous

- Stagnant water was found inside the manhole at Footbridge C. The Contractor should remove it to prevent mosquito breeding.

4.2 Advice on the Solid and Liquid Waste Management Status

4.2.1 The Contractor is registered as a chemical waste producer for this Project. C&D materials and wastes sorting were carried out on site. Receptacles were available for C&D wastes and general refuse collection.

4.2.2 As advised by the Contractor, a total of 4665.47 m^3 C&D material was generated on site in the reporting month. 3445.98 m^3 of hard rock and large broken concrete was generated and transferred to Anderson Road Quarry for further process.

For C&D waste, 0 kg of metals was generated and collected by registered recycling collector. 10 kg of paper cardboard packing and 10 kg of plastic were generated on site and collected by registered recycling collector. No chemical waste was collected by licensed chemical waste collectors. 255.75 tonnes of other types of wastes (e.g. general refuse and tree debris) were generated on site and disposed of at North East New Territories (NENT) Landfill.

4.2.3 The Contractor is advised to properly maintain on site C&D materials and wastes collection, sorting and recording system and maximize reuse / recycle of C&D materials and wastes. The Contractor is reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

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

4.3 Environmental Licenses and Permits

4.3.1 The environmental licenses and permits for this Project and valid in the reporting month is summarized in Table 4.1.

Table 4.1 Summary of Environmental Licensing and Permit Status

Statutory Reference	Description	Permit No.	Valid Period		Remarks
			From	To	
EIAO	Environmental Permit	EP-140/2002	--	--	- Widening of a section of Po Lam Road
APCO	NA notification	--	16/04/09	--	- Whole Construction Site
WPCO	Discharge License	WT00020353-2014	04/12/14	31/08/19	- Discharge of Construction Runoff
WDO	Chemical Waste Producer Registration	5213-292-C3249-32	19/03/08	--	- Whole Construction Site
	Waste Charges Account	7006839	12/03/08	--	- Whole Construction Site
NCO	Construction Noise Permit	GW-RE0094-16	09/02/16	08/08/16	- Whole Construction Site

4.4 Implementation Status of Environmental Mitigation Measures

4.4.1 In response to the site audit findings, the Contractor carried out corrective actions promptly for particular items recorded. Outstanding items were closely monitored to ensure mitigation measures are implemented properly.

4.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in Appendix B. Many necessary mitigation measures were implemented properly.

4.5 Summary of Exceedances of the Environmental Quality Performance Limit

4.5.1 All 1-hour TSP and 24-hour TSP results were below the Action and Limit Levels in the reporting month.

4.5.2 According to the information provided by the Contractor, no noise complaint was received in the reporting month; hence, no Action Level exceedance was recorded.

4.5.3 No Limit Level exceedance for noise was recorded at all monitoring stations in the reporting month.

4.5.4 Cumulative statistics on exceedances is provided in Appendix J.

4.6 Summary of Complaints, Notification of Summons and Successful Prosecutions

4.6.1 Complaints shall be referred to the ET Leader for action. The ET Leader shall undertake the following procedures upon receipt of any complaint:-

- Log complaint and date of receipt onto the complaint database and inform the IC(E) immediately;
- Investigate the complaint to determine its validity, and assess whether the source of the problem is due to works activities;

- Identify mitigation measures in consultation with the IC(E) if a complaint is valid and due to works;
- Advise the Contractor if additional mitigation measures are required;
- Review the Contractor's response to identified mitigation measures, and the updated situation;
- If the complaint is transferred from EPD, submit interim report to EPD on status of the complaint investigation and follow-up action within the time frame assigned by EPD;
- Undertake additional monitoring and audit to verify the situation if necessary, and review that circumstances leading to the complaint to not recur;
- Report investigation results and subsequent actions to complainant (if the source of complaint is EPD, the results should be reported within the time frame assigned by EPD); and
- Record the complaint, investigation, the subsequent actions and the results in the monthly EM&A reports.

4.6.2 During any complaint investigation work, the Contractor and the ER shall cooperate with the ET Leader in providing all necessary information and assistance for completion of the investigation. If mitigation measures are identified in the investigation, the Contractor shall promptly carry out the mitigation. The ER shall ensure that all necessary measures have been carried out by the Contractor.

4.6.3 Referring to the information provided by the Contractor, no environmental complaint and no notification of summons and successful prosecution were received in the reporting month.

4.6.4 Cumulative statistics on complaints, notification of summons and successful prosecutions is provided in Appendix J.

5 FUTURE KEY ISSUES

5.1 Construction Programme for the Coming Two Months

5.1.1 The major construction works in April and May 2016 will be:-

- Slope stabilization and upgrading works at Portion C and E
- Earthwork and C&D stockpile at Portion A and C
- Temporary traffic arrangement and road work at J/O Po Lam Road, J/O Sau Mau Ping Road and J/O Lee On Road
- Toe / Berm planter and platform drainage construction on slope
- Retaining wall backfilling works at R16
- Trench excavation and drainage works at public road
- Watermain works at public road
- Installation of permanent railings at main site, slope berm and footbridge A
- Asphalt laying and road marking works at L2 road
- Brick laying at footpath at L2 road
- Landscaping works at footpath, slope and public area
- Stormwater tank and main site drainage clearing and remedial works
- Installation of watermain downpipe at Po Lam Road CP2, Lee On Road Sewer A and Sau Mau Ping Road Sewer B
- Lift installation works at footbridge A
- E & M works at footbridge A and Stormwater tank
- Erection/Dismantle of bamboo scaffoldings works at footbridge A, B and C
- Cement decoration works at footbridge A and subway
- Installation glazing works at footbridge A
- Installation of metal canopy of bus stop station and subway
- Demolition of site hoarding
- Demolition of Temporary Supporting Tower at Footbridge A
- Launching of steel deck at Footbridge A
- Erection of PVC pipes at Footbridge and RE wall
- Erection of Planter at Footbridge B and C

5.2 Key Issues for the Coming Two Months

5.2.1 Key issues to be considered in the coming months included:-

- Properly store and label oil drums and chemical containers placed on site;
- Proper chemicals, chemical wastes and wastes management;
- Maintenance works should be carried out within roofed, paved areas with proper drainage system to handle run-off from maintenance works;
- Collection and segregation of construction waste and general refuse should be carried out properly and regularly;
- Site runoff should be properly collected and treated prior to discharge;
- Regular review and maintenance of drainage systems and desilting facilities;
- Exposed slopes/soil stockpiles should be properly treated to avoid generation of silty surface run-off during rainstorm;
- Proper mitigation measures should be provided to avoid relocation of treated contaminated soil;
- Regular review and maintenance of wheel washing facilities provided at all site entrances/exits;
- Suppress dust generated from work processes with use of bagged cements, earth movements, drilling works, breaking works, excavation activities, exposed areas/slopes/soil stockpiles and haul road traffic;
- Conduct regular inspection of the working machineries within works area to avoid any dark smoke emission and oil leakage;
- Quieter powered mechanical equipment should be used;
- Provision of proper and effective noise control measures, such as erection of movable noise barriers during blasting, breaking and drilling works and at crushing plant works area and provision of acoustic material wrapping to breaking tips of breakers; and
- Proper protection and regular inspection of existing trees, transplanted/retained trees.

5.3 Monitoring Schedule for the Coming Month

5.3.1 The tentative schedule for environmental monitoring in April 2016 is provided in Appendix E.

6 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

6.1.1 The construction phase of the project commenced in May 2008.

6.1.2 1-hour TSP, 24-hour TSP and noise monitoring were carried out in the reporting month.

6.1.3 All 1-hour TSP and 24-hour TSP results were below the Action and Limit Levels in the reporting month.

6.1.4 According to the Contractor's information, no noise complaint was received in the reporting month. Hence, no Action Level exceedance was recorded.

6.1.5 No Limit Level exceedance for noise was recorded at all monitoring stations in the reporting month.

6.1.6 Environmental site inspections were carried out 5 times in March 2016. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audit.

6.1.7 According to the information provided by the Contractor, no environmental complaint and no notification of summons and successful prosecution were received in the reporting month.

6.2 Recommendations

6.2.1 According to the environmental site inspections performed in the reporting month, the following recommendations were provided:-

6.2.2 Air Quality Impact

- Dusty stockpile at Footbridge A should be covered entirely with tarpaulin sheeting to suppress dust generation.
- Stocks of more than 20 bags of cement at Footbridge A should be covered entirely with impervious sheeting, or be placed in an area sheltered on the top and the 3 sides.
- Non-Road Mobile Machinery at Footbridge C should be affixed with application information or an exemption label.
- Dusty material on the public road near Footbridge A should be removed to suppress dust generation.
- Dusty material on Road L1 should be removed to suppress dust generation.

6.2.3 Construction Noise Impact

- It was reminded that the breaker tip at Po Lam Road should be wrapped with acoustic resistant material to reduce noise nuisance during work. (Reminder)

6.2.4 Water Quality Impact

- It was reminded that the overall capability of wastewater collection and treatment in general site should be enhanced, in order to prevent muddy water being discharged to the public drainage during rainy season. (Reminder)
- General refuse at U-channel at Footbridge C should be removed to prevent blockage.
- General refuse inside the U-channel at Footbridge A should be removed to avoid drainage blockage.
- Wastewater should be treated prior to discharge near Footbridge A.
- General refuse on the public road and inside the U-channel near Footbridge B should be removed to prevent drainage from blockage.
- Silt and rubbish inside the U-channel near Footbridge C should be cleared to avoid drainage blockage.

6.2.5 Chemical and Waste Management

- Construction debris and refuse at Footbridge A should be removed to maintain proper housekeeping.
- An air compressor and a chemical container at Footbridge A should be provided with drip trays to prevent oil leakage.
- Chemical containers at Footbridge C should be unstacked and be placed in a drip tray to prevent oil leakage.
- Oil stain near Footbridge C should be removed and be treated as chemical waste.

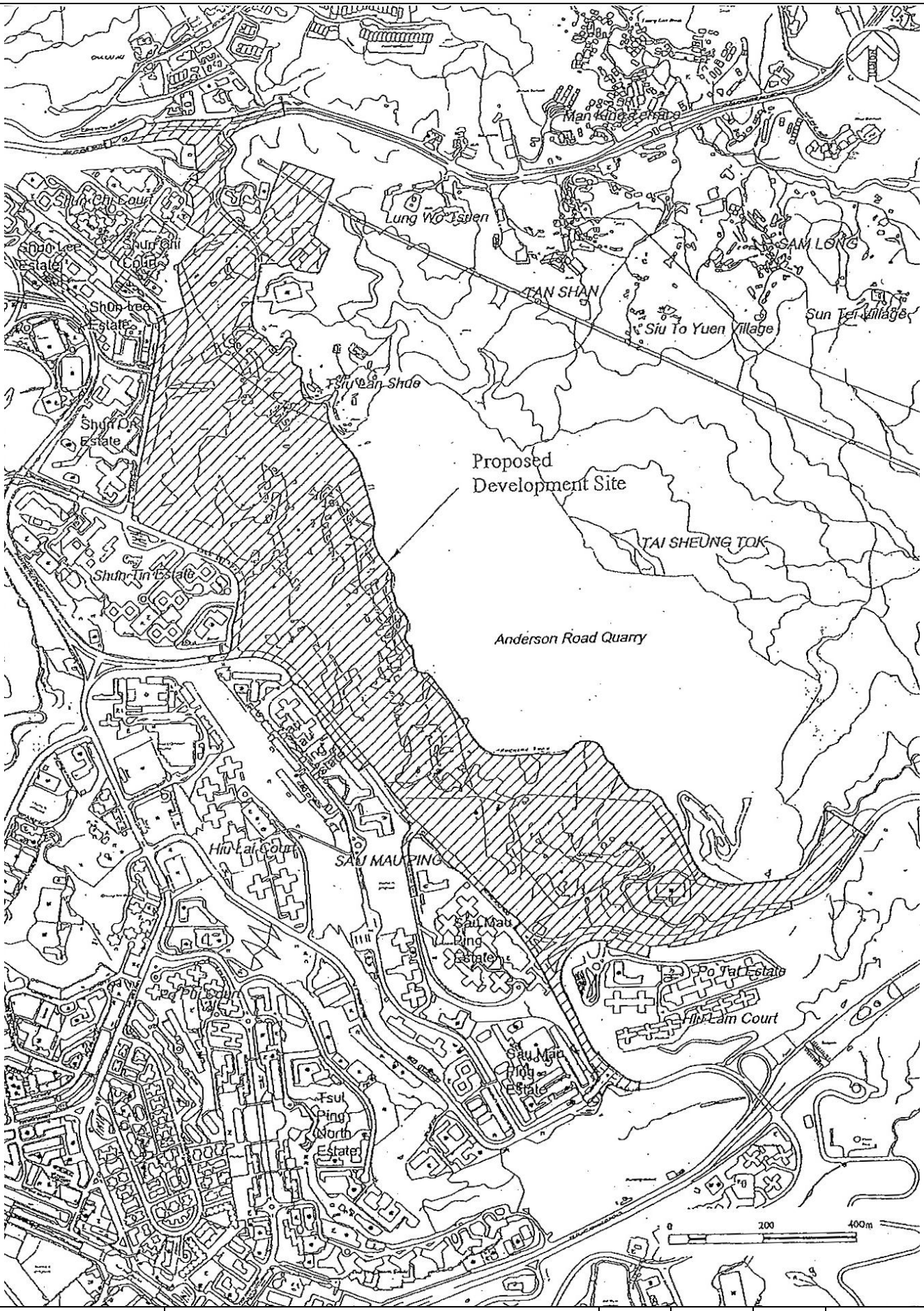
6.2.6 Landscape and Visual Impact

- No specific observation was identified in the reporting month.

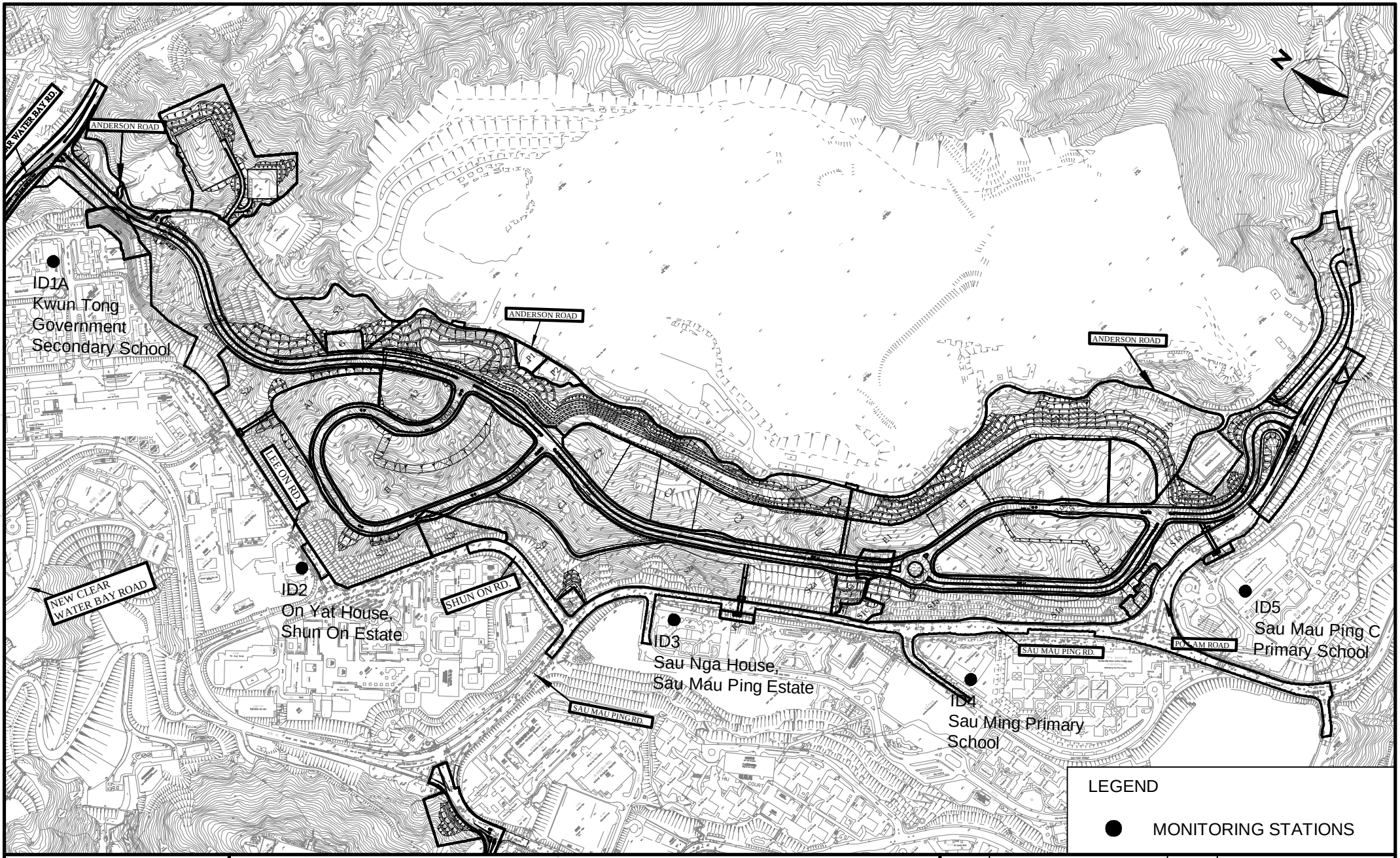
6.2.7 Miscellaneous

- Stagnant water inside the manhole at Footbridge C should be removed to prevent mosquito breeding.

FIGURES



AECOM	**Development at Anderson Road - Site Formation and Associated Infrastructure Works**	SCALE	N.T.S.	DATE	Nov-09
		CHECK	ENFL	DRAWN	LCHC
	GENERAL LAYOUT PLAN	JOB NO.	60043155	**DRAWING No.** FIG 1.1	**Rev.** -



AECOM

DEVELOPMENT AT ANDERSON ROAD
SITE FORMATION AND ASSOCIATED INFRASTRUCTURE WORKS

MONITORING LOCATIONS

SCALE	N.T.S.	DATE	APR 08
CHECK	CWHY	DRAWN	RWHW
JOB No.	60043155	DRAWING No. FIG 2.1	REV –

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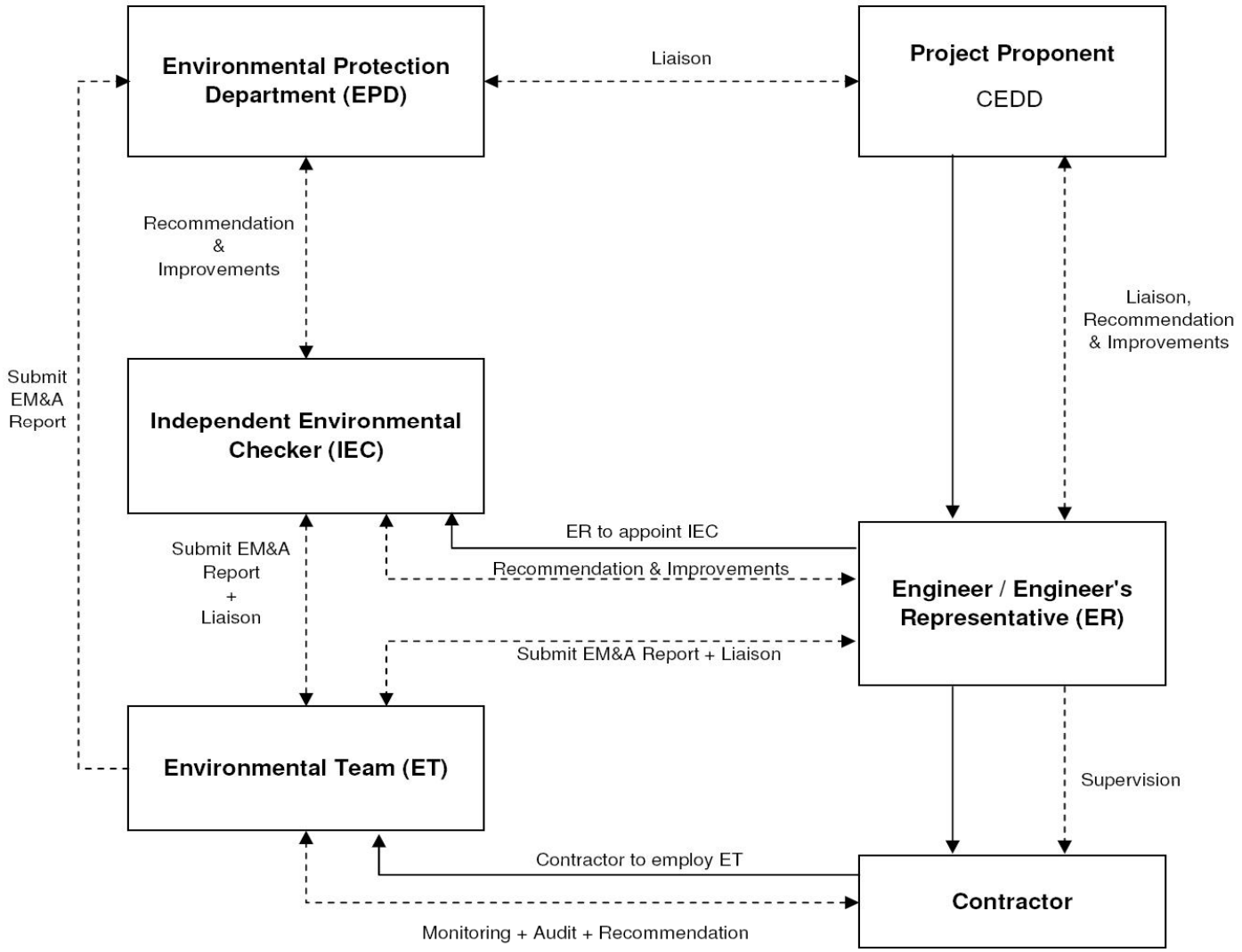
APPENDIX A

Project Organization Structure



Employment Relationship

Working Relationship

AECOM	Contract No. CV/2007/03 Development at Anderson Road – Site Formation and Associated Infrastructure Works **Project Organization Structure**	SCALE	N.T.S.	DATE	2009
		CHECK	ENFL	DRAWN	LCHC
		JOB NO.	60043155	APPENDIX A	Rev -

APPENDIX B

Implementation Schedule of Environmental Mitigation Measures

Appendix B - Implementation Schedule of Environmental Mitigation Measures

Environmental Mitigation Measures		Location	Implementation Status
Construction Noise Impact			
Site Formation	Silenced powered mechanical equipment (PME) for most equipment (including drill rig, backhoe, dump truck, breaker and crane) and the decrease of percentage on time usage of drill rig among the Central Area from 50% to 40% is proposed.	All construction sites	V
	Temporary movable noise barrier shall be used to shield the noise emanating from the drilling rig in order to provide adequate shielding for the affected NSRs.	All construction sites	V
Construction Air Quality Impact			
General Site Practice	Mean vehicle speed of haulage trucks at 10km/hr.	All construction sites	V
	Twice daily watering of all open site areas.	All construction sites	V
	Regular watering (once every 1 hour) of all site roads and access roads with frequent truck movement.	All construction sites	V
	During road transportation of excavated spoil, vehicles should be covered to avoid dust impact. Wheel washing facilities should be installed at all site exits together with regular watering of the site access roads.	All construction sites	V
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.	All construction sites	V
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads were	Site exits	V

	necessary.		
General Site Practice	Suitable side and tailboards on haulage vehicles.	All construction sites	V
	Watering of temporary stockpiles.	All construction sites	@
Blasting	Use of select aggregate and fines to stem the charge with drill holes and watering of blast face.	All construction sites	N/A
	Use of vacuum extraction drilling methods.	All construction sites	N/A
	Carefully sequenced blasting.	All construction sites	N/A
Crushing	Fabric filters installed for the crushing plant.	All construction sites	V
	Water sprays on the crusher.	All construction sites	V
Loading and Unloading Points, and conveyor Belt System	Water sprays at all fixed loading and unloading points (at the crusher and conveyor belts).	All construction sites	V
	The loading point at the crusher is enclosed with dust collection system installed.	All construction sites	V
	When transferring materials from conveyor belt or crusher to the dump trucks, chutes or dust curtains are used for controlling dust.	All construction sites	V
	Cover the conveyor belts with steel roof and canvas sides.	All construction sites	V
Construction Water Quality Impact			
Construction Phase	All active working areas should be bounded to retain storm water with sufficient retention time to ensure that suspended solids are not discharged from the site in concentrations above those specified in the TM for the Victoria Harbour (Phase I) WCZ. All fuel storage areas should be bounded	Site drainage system	V

	with drainage directed to an oil interceptor.		
	Separate treatment facilities may be required for effluent from site offices, toilets (unless chemical toilets are used) and canteens.	Site drainage system	V
	Discharged wastewater from the construction sites to surface water and/or public drainage systems should be controlled through licensing. Discharge should follow fully the terms and conditions in the licenses.	All works area	@
	Relevant practice for dealing with various type of construction discharges provided in EPD's ProPECC Note PN 1/94 should be adopted.	All works area	@
Waste Management			
Waste Disposal	Difference types of wastes should be segregated, stored, transported and disposed of separately in accordance with the relevant legislative requirements and guidelines as proper practice of waste management.	All construction sites	@
	Sorting of wastes should be done on-site. Different types of wastes should be segregated and stored in different stockpiles, containers or skips to enhance recycling of materials and proper disposal of spoil.	All construction sites	V
	Excavated spoil should be used as much as possible to minimize off-side fill material requirements and disposal of spoil.	All construction sites	V
	Chemical waste should be recycled on-site or removed by licenced companies. It should be handled according to the Code of Practice on the	All construction sites	V

	Packaging, Labelling and Storage of Chemical wastes. When off-site disposal is required, it should be collected and delivered by licenced contractors to Tsing Yi Chemical Waste Treatment Facility and disposed of in accordance with the Chemical Waste (General) Regulation.		
	Necessary mitigation measures should be adopted to prevent the uncontrolled disposal of chemical and hazardous waste into air, soil, surface waters and ground waters.	All construction sites	@
Waste Storage	Chemical material storage areas should be bounded, constructed of impervious materials and have the capacity to contain 120 percent of the total volume of the containers. Indoor storage areas must have sufficient ventilation to prevent the build-up of fumes, and must be capable of evacuating the space in the event of an accidental release. Outdoor storage areas must be covered with a canopy or contain provisions for the safe removal of rainwater. In both cases, storage areas must not be connected to the foul or stormwater sewer system.	All construction sites	@
	Dangerous materials as defined under the DGO, including fuel, oil and lubricants, should be stored and properly labelled on site in accordance with the requirements in the DGO. If transportation of hazardous materials is necessary, hazardous materials, chemical wastes and fuel should be packed or stored in containers or vessels of suitable design and construction to prevent leakage, spillage or escape.	All construction sites	V
	Human waste should be discharged into septic tanks provided by the contractors and removed regularly by a hygiene services company. Refuse	All construction sites	V

	containers such as open skips should be provided at every work site for use by the workforce. On-site refuse collection points must also be provided.		
Landscape and Visual			
Additional Measures	Planting and vegetation restoration (including transplanted trees) on soil slopes including restoration of grassland, scrub and woodland on slopes around the development platforms and access road. Restoration would be undertaken using predominantly native species.	Whole development	N/A
Additional Measures	Screen planting along the access roads, to limit impacts of elevated structures and rock slopes.	Whole development	N/A
	Colouring of shotcrete slopes.	Whole development	N/A
	Limited planting on shotcrete slopes.	Whole development	V
	Landscape buffers and planting in and around the development itself to screen partially close views of the site.	Whole development	N/A
	Screen planting in front of retaining walls / granite cladding to those walls to reduce glare and visual impacts.	Whole development	N/A
	Careful design of road elevated structure and abutments, to limit visual impacts.	Whole development	V
	Roadside landscape features / hardworks to limit visual impacts.	Whole development	V
	Conservation of CDG or CDV recovered from the site for re-use in the landscape restoration.	Whole development	N/A
	Preservation (by transplanting if necessary) of any trees identified as being	Whole development	V

	of particular landscape value.		
Ecology			
	Woodland planting on soft cut slopes available (about 13.4ha) within the development site. Native species, preferably with documented ecological utility, should be used.	Soft cut slopes	N/A
	Seeds of the native species when possible should be added into the hydroseeding mix. Seedings should be pit planted with placement of slow release fertilizer.	Soft cut slopes	N/A
	Maintenance and service, including weeding, fertilizing, replacement of dead plants, etc. should be performed during the first 1 years of planting to enhance the survival rate of the plants.	Soft cut slopes	N/A
Contaminated Land			
	In accordance with the approved Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) in Nov 2006, it is recommended that cement solidification / stabilization prior to on-site backfill for heavy metal contaminated soil and excavation followed by disposal at designated landfill for organic contaminated soil. Upon the completion of the proposed remediation exercise as outlined in CAR & RAP, a Remediation Report will be complied for submission to EPD to demonstrate that the proposed soil remediation has been carried out properly and satisfactorily. Results from the confirmation tests will also be included in the Remediation Report. Photos showing the area of excavation, the solidification process, and remediated soil and site shall also be included in the report for reference.	Locations specified in CAR	N/A (Works In Progress)

Landfill Gas Hazard			
	Further site investigation should be carried out during the detailed design stage in order to measure landfill gas around the perimeter of the site, to re-confirm that there is no preferential pathway for landfill gas migration and to assess the potential for landfill gas hazards on the future development. If a landfill gas hazard is identified, mitigation measures should be proposed and implemented to address the hazard.	The whole development site	N/A

Legend: V = implemented;
x = not implemented;
@ = partially implemented;
N/A = not applicable

APPENDIX C

Summary of Action and Limit Levels

Appendix C - Summary of Action and Limit Levels

Table 1 – Action and Limit Levels for 1-hour TSP

Location	Action Level	Limit Level
ID 1A	201.5	500
ID 2	197.0	500
ID 3	203.7	500
ID 4	264.6	500
ID 5	267.4	500

Table 2 – Action and Limit Levels for 24-hour TSP

Location	Action Level	Limit Level
ID 1A	170.2	260
ID 2	200.0	260
ID 3	200.0	260
ID 4	181.3	260
ID 5	180.8	260

Table 3 – Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)

Location	Action Level	Limit Level
ID 1A	When one documented complaint is received from any one of the sensitive receivers	*65 / 70 dB(A)
ID 2		75 dB(A)
ID 3		75 dB(A)
ID 4		*65 / 70 dB(A)
ID 5		*65 / 70 dB(A)

*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

APPENDIX D

Calibration Certificates of Equipments

AECOM Asia Company Limited

TSP - Total Suspended Particulates Sampler
Field Calibration Report

Station: Kwun Tong Government Secondary School (ID1A)
Date: 15-Jan-16
Pump No.: 846
Equipment No.: ---

Operator: Leung Yiu Ting
Next Due Date: 15-Mar-16
Verified Against: O.T.S -- 988
Expiration Date: 29-May-2016

Ambient Condition					
Temperature, Ta	289	Kelvin	Pressure, Pa	760.3	mmHg

Orifice Transfer Standard Information					
Equipment No.:	988	Slope, mc	1.97831	Intercept, bc	0.01264
Last Calibration Date:	29-May-15	$mc \times Qstd + bc = [H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	29-May-16				

Calibration of TSP Sampler

Calibration Point	H in. of water	$[H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (m^3/min) **X - axis**	W in. of oil	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ **Y-axis**
1	8.2	2.91	1.46	6.1	2.51
2	7.0	2.69	1.35	5.0	2.27
3	6.0	2.49	1.25	4.1	2.06
4	4.2	2.08	1.05	2.6	1.64
5	3.0	1.76	0.88	1.4	1.20

By Linear Regression of Y on X

Slope , mw = 2.2322 **Intercept, bw =** -0.7382

Correlation Coefficient* = 0.9990

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 1.21 m^3/min (43 CFM)

From the Regression Equation, the "Y" value according to

$$m \times Qstd + b = [W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point $W = (m \times Qstd + b)^2 \times (760 / Pa) \times (Ta / 298) =$ **3.73**

*If Correlation Coefficient < 0.990, check and recalibrate again.

Remarks:

QC Reviewer: WS CHAN Signature: Date: 15/1/16

AECOM Asia Company Limited

TSP - Total Suspended Particulates Sampler
Field Calibration Report

Station: Kwun Tong Government Secondary School (ID1A)
Date: 15-Mar-16
Pump No.: 846
Equipment No.: ---

Operator: Leung Yiu Ting
Next Due Date: 15-May-16
Verified Against: O.T.S -- 988
Expiration Date: 29-May-2016

Ambient Condition					
Temperature, Ta	289	Kelvin	Pressure, Pa	761.6	mmHg

Orifice Transfer Standard Information					
Equipment No.:	988	Slope, mc	1.97831	Intercept, bc	0.01264
Last Calibration Date:	29-May-15	**mc x Qstd + bc = [H x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	29-May-16				

Calibration of TSP Sampler

Calibration Point	H in. of water	[H x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (m^3/min) **X - axis**	W in. of oil	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	8.1	2.89	1.45	6.0	2.49
2	7.0	2.69	1.35	5.0	2.27
3	6.0	2.49	1.25	4.0	2.03
4	4.2	2.08	1.05	2.6	1.64
5	3.1	1.79	0.90	1.5	1.24

By Linear Regression of Y on X

Slope , mw = **2.2325** **Intercept, bw =** **-0.7450**

Correlation Coefficient* = **0.9987**

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 1.21 m^3/min (43 CFM)

From the Regression Equation, the "Y" value according to

m x Qstd + b = [W x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point W = (m x Qstd + b)^2 x (760 / Pa) x (Ta / 298) = **3.70**

*If Correlation Coefficient < 0.990, check and recalibrate again.

Remarks:

QC Reviewer: WS CHAN Signature: Date: 15/3/16

AECOM Asia Company Limited

TSP - Total Suspended Particulates Sampler
Field Calibration Report

Station: On Yat House (ID2)
Date: 2-Feb-16
Pump No.: 10373
Equipment No.: A-001-12T

Operator: Leung Yiu Ting
Next Due Date: 2-Apr-16
Verified Against: O.T.S -- 988
Expiration Date: 29-May-2016

Ambient Condition					
Temperature, Ta	284	Kelvin	Pressure, Pa	770.8	mmHg

Orifice Transfer Standard Information					
Equipment No.:	988	Slope, mc	1.97831	Intercept, bc	0.01264
Last Calibration Date:	29-May-15	**mc x Qstd + bc = [H x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	29-May-16				

Calibration of TSP Sampler

Calibration Point	H in. of water	[H x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (m^3/min) **X - axis**	W in. of oil	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	7.7	2.86	1.44	5.5	2.42
2	6.1	2.55	1.28	3.9	2.04
3	5.0	2.31	1.16	2.9	1.76
4	4.3	2.14	1.08	2.1	1.49
5	3.1	1.82	0.91	1.2	1.13

By Linear Regression of Y on X

Slope , mw = 2.4698 **Intercept, bw =** -1.1315

Correlation Coefficient* = 0.9984

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 1.21 m^3/min (43 CFM)

From the Regression Equation, the "Y" value according to

m x Qstd + b = [W x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point W = (m x Qstd + b)^2 x (760 / Pa) x (Ta / 298) = **3.24**

*If Correlation Coefficient < 0.990, check and recalibrate again.

Remarks:

QC Reviewer: WS CHAN Signature: Date: 02/02/16

AECOM Asia Company Limited

TSP - Total Suspended Particulates Sampler
Field Calibration Report

Station: Sau Nga House (ID3)
Date: 2-Feb-16
Pump No.: 3261
Equipment No.: A-001-77T

Operator: Leung Yiu Ting
Next Due Date: 2-Apr-16
Verified Against: O.T.S -- 988
Expiration Date: 29-May-2016

Ambient Condition					
Temperature, Ta	284	Kelvin	Pressure, Pa	770.8	mmHg

Orifice Transfer Standard Information					
Equipment No.:	988	Slope, mc	1.97831	Intercept, bc	0.01264
Last Calibration Date:	29-May-15	**mc x Qstd + bc = [H x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	29-May-16				

Calibration of TSP Sampler					
Calibration Point	H in. of water	[H x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (m^3/min) **X - axis**	W in. of oil	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	7.8	2.88	1.45	5.4	2.40
2	6.5	2.63	1.32	4.1	2.09
3	5.3	2.37	1.19	3.2	1.85
4	4.4	2.16	1.09	2.3	1.56
5	3.1	1.82	0.91	1.3	1.18

By Linear Regression of Y on X

Slope , mw = 2.2625 **Intercept, bw =** -0.8809

Correlation Coefficient* = 0.9987

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 1.21 m^3/min (43 CFM)

From the Regression Equation, the "Y" value according to

m x Qstd + b = [W x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point W = (m x Qstd + b)^2 x (760 / Pa) x (Ta / 298) = **3.24**

*If Correlation Coefficient < 0.990, check and recalibrate again.

Remarks:

QC Reviewer: W S CHAN Signature: [signature] Date: 02/02/16

AECOM Asia Company Limited

TSP - Total Suspended Particulates Sampler
Field Calibration Report

Station: Sau Ming Primary School (ID4)
Operator: Shum Kam Yuen
Date: 2-Feb-16
Next Due Date: 2-Apr-16
Pump No.: 1275
Verified Against: O.T.S -- 988
Equipment No.: A-001-28T
Expiration Date: 29-May-2016

Ambient Condition					
Temperature, Ta	284	Kelvin	Pressure, Pa	770.8	mmHg

Orifice Transfer Standard Information					
Equipment No.:	988	Slope, mc	1.97831	Intercept, bc	0.01264
Last Calibration Date:	29-May-15	**mc x Qstd + bc = [H x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	29-May-16				

Calibration of TSP Sampler

Calibration Point	H in. of water	[H x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (m^3/min) **X - axis**	W in. of oil	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	7.8	2.88	1.45	5.4	2.40
2	6.5	2.63	1.32	4.0	2.06
3	5.2	2.35	1.18	3.3	1.87
4	4.0	2.06	1.03	2.1	1.49
5	3.1	1.82	0.91	1.3	1.18

By Linear Regression of Y on X

Slope , mw = **2.1945** **Intercept, bw =** **-0.7851**

Correlation Coefficient* = **0.9955**

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 1.21 m^3/min (43 CFM)

From the Regression Equation, the "Y" value according to

m x Qstd + b = [W x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point W = (m x Qstd + b)^2 x (760 / Pa) x (Ta / 298) = **3.29**

*If Correlation Coefficient < 0.990, check and recalibrate again.

Remarks:

QC Reviewer: WS CHAN Signature: Date: 02/02/16

AECOM Asia Company Limited

TSP - Total Suspended Particulates Sampler
Field Calibration Report

Station: Sau Mau Ping Catholic Primary School (ID5)
Operator: Shum Kam Yuen
Date: 2-Feb-16
Next Due Date: 2-Apr-16
Pump No.: 10088
Verified Against: O.T.S -- 988
Equipment No.: A-001-13T
Expiration Date: 29-May-2016

Ambient Condition					
Temperature, Ta	284	Kelvin	Pressure, Pa	770.8	mmHg

Orifice Transfer Standard Information					
Equipment No.:	988	Slope, mc	1.97831	Intercept, bc	0.01264
Last Calibration Date:	29-May-15	**mc x Qstd + bc = [H x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	29-May-16				

Calibration of TSP Sampler

Calibration Point	H in. of water	[H x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (m^3/min) **X - axis**	W in. of oil	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	7.7	2.86	1.44	5.6	2.44
2	6.1	2.55	1.28	4.3	2.14
3	5.2	2.35	1.18	3.2	1.85
4	4.1	2.09	1.05	2.5	1.63
5	3.0	1.79	0.90	1.3	1.18

By Linear Regression of Y on X

Slope , mw = **2.3115** **Intercept, bw =** **-0.8564**

Correlation Coefficient* = **0.9955**

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 1.21 m^3/min (43 CFM)

From the Regression Equation, the "Y" value according to

m x Qstd + b = [W x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point W = (m x Qstd + b)^2 x (760 / Pa) x (Ta / 298) = **3.54**

*If Correlation Coefficient < 0.990, check and recalibrate again.

Remarks:

QC Reviewer: WS CHAN Signature: Date: 02/02/16

TISCH Environmental

TISCH ENVIRONMENTAL, INC.
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VILLAGE OF CLEVES, OH
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ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - May 29, 2015 Rootsmeter S/N 0438320 Ta (K) - 297
Operator Tisch Orifice I.D. - 0988 Pa (mm) - 755.65

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.3980	3.2	2.00
2	NA	NA	1.00	0.9910	6.3	4.00
3	NA	NA	1.00	0.8790	7.8	5.00
4	NA	NA	1.00	0.8380	8.6	5.50
5	NA	NA	1.00	0.6890	12.6	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)
0.9934	0.7106	1.4125
0.9893	0.9983	1.9976
0.9872	1.1231	2.2334
0.9862	1.1769	2.3424
0.9809	1.4237	2.8251

Qstd slope (m) = 1.97831
intercept (b) = 0.01264
coefficient (r) = 0.99985

y axis = SQRT[H2O(Pa/760)(298/Ta)]

Va	(x axis) Qa	(y axis)
0.9957	0.7123	0.8866
0.9917	1.0007	1.2539
0.9896	1.1258	1.4019
0.9886	1.1797	1.4703
0.9833	1.4271	1.7732

Qa slope (m) = 1.23878
intercept (b) = 0.00793
coefficient (r) = 0.99985

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

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

EQUIPMENT CALIBRATION RECORD

Type:	***Laser Dust Monitor***
Manufacturer/Brand:	***SIBATA***
Model No.:	***LD-3***
Equipment No.:	***A.005.07a***
Sensitivity Adjustment Scale Setting:	***557 CPM***
Operator:	*Mike Shek (MSKM)*

Standard Equipment

Equipment:	*Rupprecht & Patashnick TEOM®*		
Venue:	*Cyberport (Pui Ying Secondary School)*		
Model No.:	*Series 1400AB*		
Serial No:	Control: *140AB219899803*		
	Sensor: *1200C143659803*	K_o: *12500*	
Last Calibration Date*:	*7 May 2015*		

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): *557* CPM
Sensitivity Adjustment Scale Setting (After Calibration): *557* CPM

Hour	Date (dd-mm-yy)	Time	Ambient Condition		Concentration[1] (mg/m^3) **Y-axis**	Total Count[2]	Count/ Minute[3] **X-axis**
			Temp (°C)	R.H. (%)			
1	*08-05-15*	*09:15 - 10:15*	*26.9*	*76*	*0.04417*	*1763*	*29.38*
2	*08-05-15*	*10:15 - 11:15*	*26.9*	*76*	*0.04625*	*1851*	*30.85*
3	*08-05-15*	*11:15 - 12:15*	*26.9*	*77*	*0.04513*	*1805*	*30.08*
4	*08-05-15*	*12:15 - 13:15*	*27.1*	*77*	*0.04828*	*1926*	*32.10*

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®
2. Total Count was logged by Laser Dust Monitor
3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X
Slope (K-factor): *0.0015*
Correlation coefficient: *0.9983*

Validity of Calibration Record: *8 May 2016*

Remarks:

QC Reviewer: *YW Fung* Signature: Date: 11 May 2015

EQUIPMENT CALIBRATION RECORD

Type:	***Laser Dust Monitor***
Manufacturer/Brand:	***SIBATA***
Model No.:	***LD-3***
Equipment No.:	***A.005.08a***
Sensitivity Adjustment Scale Setting:	***702 CPM***
Operator:	*Mike Shek (MSKM)*

Standard Equipment

Equipment:	*Rupprecht & Patashnick TEOM®*		
Venue:	*Cyberport (Pui Ying Secondary School)*		
Model No.:	*Series 1400AB*		
Serial No:	Control: *140AB219899803*		
	Sensor: *1200C143659803*	K_o: *12500*	
Last Calibration Date*:	*7 May 2015*		

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): *702* CPM
Sensitivity Adjustment Scale Setting (After Calibration): *702* CPM

Hour	Date (dd-mm-yy)	Time	Ambient Condition		Concentration[1] (mg/m^3) **Y-axis**	Total Count[2]	Count/ Minute[3] **X-axis**
			Temp (°C)	R.H. (%)			
1	*08-05-15*	*09:30 - 10:30*	*26.9*	*76*	*0.04587*	*1722*	*28.70*
2	*08-05-15*	*10:30 - 11:30*	*26.9*	*76*	*0.04774*	*1795*	*29.92*
3	*08-05-15*	*11:30 - 12:30*	*26.9*	*77*	*0.04976*	*1864*	*31.07*
4	*08-05-15*	*12:30 - 13:30*	*27.1*	*77*	*0.05051*	*1901*	*31.68*

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®
2. Total Count was logged by Laser Dust Monitor
3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X
Slope (K-factor): *0.0016*
Correlation coefficient: *0.9978*

Validity of Calibration Record: *8 May 2016*

Remarks:

QC Reviewer: *YW Fung* Signature: Date: 11 May 2015

EQUIPMENT CALIBRATION RECORD

Type:	***Laser Dust Monitor***
Manufacturer/Brand:	***SIBATA***
Model No.:	***LD-3***
Equipment No.:	***A.005.09a***
Sensitivity Adjustment Scale Setting:	***797 CPM***
Operator:	*Mike Shek (MSKM)*

Standard Equipment

Equipment:	*Rupprecht & Patashnick TEOM®*		
Venue:	*Cyberport (Pui Ying Secondary School)*		
Model No.:	*Series 1400AB*		
Serial No:	Control: *140AB219899803*		
	Sensor: *1200C143659803*	K_o: *12500*	
Last Calibration Date*:	*7 May 2015*		

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): *797* CPM
Sensitivity Adjustment Scale Setting (After Calibration): *797* CPM

Hour	Date (dd-mm-yy)	Time	Ambient Condition		Concentration[1] (mg/m^3) **Y-axis**	Total Count[2]	Count/ Minute[3] **X-axis**
			Temp (°C)	R.H. (%)			
1	*08-05-15*	*13:15 - 14:15*	*27.1*	*77*	*0.04986*	*1994*	*33.23*
2	*08-05-15*	*14:15 - 15:15*	*27.1*	*77*	*0.05083*	*2037*	*33.95*
3	*08-05-15*	*15:15 - 16:15*	*27.1*	*77*	*0.05012*	*2003*	*33.38*
4	*08-05-15*	*16:15 - 17:15*	*27.1*	*76*	*0.05241*	*2095*	*34.92*

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®
2. Total Count was logged by Laser Dust Monitor
3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X
Slope (K-factor): *0.0015*
Correlation coefficient: *0.9968*

Validity of Calibration Record: *8 May 2016*

Remarks:

QC Reviewer: *YW Fung* Signature: Date: 11 May 2015

EQUIPMENT CALIBRATION RECORD

Type:	***Laser Dust Monitor***
Manufacturer/Brand:	***SIBATA***
Model No.:	***LD-3***
Equipment No.:	***A.005.10a***
Sensitivity Adjustment Scale Setting:	***753 CPM***
Operator:	*Mike Shek (MSKM)*

Standard Equipment

Equipment:	*Rupprecht & Patashnick TEOM®*		
Venue:	*Cyberport (Pui Ying Secondary School)*		
Model No.:	*Series 1400AB*		
Serial No:	Control: *140AB219899803*		
	Sensor: *1200C143659803*	K_o: *12500*	
Last Calibration Date*:	*7 May 2015*		

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): *753* CPM
Sensitivity Adjustment Scale Setting (After Calibration): *753* CPM

Hour	Date (dd-mm-yy)	Time	Ambient Condition		Concentration[1] (mg/m^3) **Y-axis**	Total Count[2]	Count/ Minute[3] **X-axis**
			Temp (°C)	R.H. (%)			
1	*08-05-15*	*13:45 - 14:45*	*27.1*	*77*	*0.04963*	*1989*	*33.15*
2	*08-05-15*	*14:45 - 15:45*	*27.1*	*77*	*0.05131*	*2054*	*34.23*
3	*08-05-15*	*15:45 - 16:45*	*27.1*	*77*	*0.05170*	*2066*	*34.43*
4	*08-05-15*	*16:45 - 17:45*	*27.1*	*77*	*0.05269*	*2110*	*35.17*

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®
2. Total Count was logged by Laser Dust Monitor
3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X
Slope (K-factor): *0.0015*
Correlation coefficient: *0.9974*

Validity of Calibration Record: *8 May 2016*

Remarks:

QC Reviewer: *YW Fung* Signature: _____ Date: 11 May 2015

EQUIPMENT CALIBRATION RECORD

Type:	***Laser Dust Monitor***
Manufacturer/Brand:	***SIBATA***
Model No.:	***LD-3***
Equipment No.:	***A.005.11a***
Sensitivity Adjustment Scale Setting:	***799 CPM***
Operator:	*Mike Shek (MSKM)*

Standard Equipment

Equipment:	*Rupprecht & Patashnick TEOM®*		
Venue:	*Cyberport (Pui Ying Secondary School)*		
Model No.:	*Series 1400AB*		
Serial No:	Control: *140AB219899803*		
	Sensor: *1200C143659803*	K_o: *12500*	
Last Calibration Date*:	*7 May 2015*		

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

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

Hour	Date (dd-mm-yy)	Time	Ambient Condition		Concentration[1] (mg/m^3) **Y-axis**	Total Count[2]	Count/ Minute[3] **X-axis**
			Temp (°C)	R.H. (%)			
1	*13-05-15*	*09:15 - 10:15*	*27.3*	*78*	*0.04635*	*1853*	*30.88*
2	*13-05-15*	*10:15 - 11:15*	*27.3*	*78*	*0.04788*	*1916*	*31.93*
3	*13-05-15*	*11:15 - 12:15*	*27.3*	*78*	*0.04943*	*1985*	*33.08*
4	*13-05-15*	*12:15 - 13:15*	*27.4*	*78*	*0.05176*	*2075*	*34.58*

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®
2. Total Count was logged by Laser Dust Monitor
3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X
Slope (K-factor): *0.0015*
Correlation coefficient: *0.9983*

Validity of Calibration Record: *13 May 2016*

Remarks:

QC Reviewer: *YW Fung* Signature: Date: 14 May 2015

EQUIPMENT CALIBRATION RECORD

Type:	***Laser Dust Monitor***
Manufacturer/Brand:	***SIBATA***
Model No.:	***LD-3B***
Equipment No.:	***A.005.13a***
Sensitivity Adjustment Scale Setting:	***643 CPM***
Operator:	*Mike Shek (MSKM)*

Standard Equipment

Equipment:	*Rupprecht & Patashnick TEOM®*		
Venue:	*Cyberport (Pui Ying Secondary School)*		
Model No.:	*Series 1400AB*		
Serial No:	Control: *140AB219899803*		
	Sensor: *1200C143659803*	K_o: *12500*	
Last Calibration Date*:	*7 May 2015*		

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): *643* CPM
Sensitivity Adjustment Scale Setting (After Calibration): *643* CPM

Hour	Date (dd-mm-yy)	Time	Ambient Condition		Concentration[1] (mg/m^3) **Y-axis**	Total Count[2]	Count/ Minute[3] **X-axis**
			Temp (°C)	R.H. (%)			
1	*13-05-15*	*09:45 - 10:45*	*27.3*	*78*	*0.04654*	*1867*	*31.12*
2	*13-05-15*	*10:45 - 11:45*	*27.3*	*78*	*0.04743*	*1901*	*31.68*
3	*13-05-15*	*11:45 - 12:45*	*27.3*	*78*	*0.05036*	*2010*	*33.50*
4	*13-05-15*	*12:45 - 13:45*	*27.4*	*78*	*0.05271*	*2112*	*35.20*

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®
2. Total Count was logged by Laser Dust Monitor
3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X
Slope (K-factor): *0.0015*
Correlation coefficient: *0.9984*

Validity of Calibration Record: *13 May 2016*

Remarks:

QC Reviewer: *YW Fung* Signature: Date: 14 May 2015

EQUIPMENT CALIBRATION RECORD

Type:	***Laser Dust Monitor***
Manufacturer/Brand:	***SIBATA***
Model No.:	***LD-3B***
Equipment No.:	***A.005.14a***
Sensitivity Adjustment Scale Setting:	***786 CPM***
Operator:	*Mike Shek (MSKM)*

Standard Equipment

Equipment:	*Rupprecht & Patashnick TEOM®*		
Venue:	*Cyberport (Pui Ying Secondary School)*		
Model No.:	*Series 1400AB*		
Serial No:	Control: *140AB219899803*		
	Sensor: *1200C143659803*	K_o: *12500*	
Last Calibration Date*:	*7 May 2015*		

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): *786* CPM
Sensitivity Adjustment Scale Setting (After Calibration): *786* CPM

Hour	Date (dd-mm-yy)	Time	Ambient Condition		Concentration[1] (mg/m^3) **Y-axis**	Total Count[2]	Count/ Minute[3] **X-axis**
			Temp (°C)	R.H. (%)			
1	*13-05-15*	*13:15 - 14:15*	*27.4*	*78*	*0.05084*	*2178*	*36.30*
2	*13-05-15*	*14:15 - 15:15*	*27.5*	*78*	*0.05236*	*2243*	*37.38*
3	*13-05-15*	*15:15 - 16:15*	*27.5*	*78*	*0.05345*	*2295*	*38.25*
4	*13-05-15*	*16:15 - 17:15*	*27.4*	*77*	*0.05272*	*2261*	*37.68*

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®
2. Total Count was logged by Laser Dust Monitor
3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X
Slope (K-factor): *0.0014*
Correlation coefficient: *0.9972*

Validity of Calibration Record: *13 May 2016*

Remarks:

QC Reviewer: *YW Fung* Signature: Date: 14 May 2015

EQUIPMENT CALIBRATION RECORD

Type:	***Laser Dust Monitor***
Manufacturer/Brand:	***SIBATA***
Model No.:	***LD-3B***
Equipment No.:	***A.005.16a***
Sensitivity Adjustment Scale Setting:	***521 CPM***
Operator:	*Mike Shek (MSKM)*

Standard Equipment

Equipment:	*Rupprecht & Patashnick TEOM®*		
Venue:	*Cyberport (Pui Ying Secondary School)*		
Model No.:	*Series 1400AB*		
Serial No:	Control: *140AB219899803*		
	Sensor: *1200C143659803*	K_o: *12500*	
Last Calibration Date*:	*10 May 2014*		

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): *521* CPM
Sensitivity Adjustment Scale Setting (After Calibration): *521* CPM

Hour	Date (dd-mm-yy)	Time	Ambient Condition		Concentration[1] (mg/m^3) **Y-axis**	Total Count[2]	Count/ Minute[3] **X-axis**
			Temp (°C)	R.H. (%)			
1	*18-07-15*	*09:30 - 10:30*	*29.8*	*75*	*0.05032*	*2014*	*33.57*
2	*18-07-15*	*10:45 - 11:45*	*30.1*	*76*	*0.05117*	*2047*	*34.12*
3	*18-07-15*	*12:15 - 13:15*	*30.4*	*77*	*0.05363*	*2141*	*35.68*
4	*18-07-15*	*13:40 - 14:40*	*30.5*	*78*	*0.05465*	*2179*	*36.32*

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®
2. Total Count was logged by Laser Dust Monitor
3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X
Slope (K-factor): *0.0015*
Correlation coefficient: *0.9978*

Validity of Calibration Record: *18 July 2016*

Remarks:

QC Reviewer: *YW Fung* Signature: Date: 20 July 2015

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. Tel : (852) 2873 6860
香港黃竹坑道37號利達中心地下，9樓，12樓，13樓及20樓 Fax : (852) 2555 7533
E-mail: smec@cigismec.com Website: www.cigismec.com

HOKLAS 028 CAL

CERTIFICATE OF CALIBRATION

Certificate No.: 15CA0703 02-02 **Page** 1 **of** 2

Item tested

Description:	Sound Level Meter (Type 1)	,	Microphone
Manufacturer:	B & K	,	B & K
Type/Model No.:	2238	,	4188
Serial/Equipment No.:	2800927	,	2791214
Adaptors used:	-	,	-

Item submitted by

N-009-06

Customer Name:	AECOM ASIA CO., LTD.
Address of Customer:	-
Request No.:	-
Date of receipt:	03-Jul-2015

Date of test: 04-Jul-2015

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	19-Jun-2016	CIGISMEC
Signal generator	DS 360	33873	16-Apr-2016	CEPREI
Signal generator	DS 360	61227	16-Apr-2016	CEPREI

Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	60 ± 10 %
Air pressure:	1000 ± 5 hPa

Test specifications

1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.

2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.

3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory: Huang Jian Min/Feng Jun Qi **Date:** 06-Jul-2015 **Company Chop:** SOILS & MATERIALS ENGINEERING COMPANY LTD. 綜合試驗有限公司

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
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香港黃竹坑道37號利達中心地下，9樓，12樓，13樓及20樓
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Tel : (852) 2873 6860
Fax : (852) 2555 7533

CERTIFICATE OF CALIBRATION

Certificate No.: 15CA0303 01-01 **Page** 1 **of** 2

Item tested

Description:	Sound Level Meter (Type 1)	,	Microphone
Manufacturer:	B & K	,	B & K
Type/Model No.:	2250	,	4950
Serial/Equipment No.:	2681366	,	2665582
Adaptors used:	-	,	-

Item submitted by

Customer Name:	AECOM ASIA CO LIMITED
Address of Customer:	-
Request No.:	-
Date of receipt:	03-Mar-2015

Date of test: 03-Mar-2015

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	20-Jun-2015	CIGISMEC
Signal generator	DS 360	33873	09-Apr-2015	CEPREI
Signal generator	DS 360	61227	09-Apr-2015	CEPREI

Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	60 ± 10 %
Air pressure:	1010 ± 5 hPa

Test specifications

1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.

2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.

3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory: **Date:** 04-Mar-2015 **Company Chop:**

Huang Jian Min/Feng Jun Qi

SOILS & MATERIALS ENGINEERING COMPANY LTD. 綜合試驗有限公司

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
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香港黃竹坑道37號利達中心地下，9樓，12樓，13樓及20樓
E-mail: smec@cigismec.com Website: www.cigismec.com
Tel : (852) 2873 6860
Fax : (852) 2555 7533

HOKLAS 028 CAL

CERTIFICATE OF CALIBRATION

Certificate No.: 16CA0304 02

Item tested

Description:	Sound Level Meter (Type 1)	Microphone	Preamp
Manufacturer:	B & K	B & K	B & K
Type/Model No.:	2250-L	4950	ZC0032
Serial/Equipment No.:	2681366	2879980	19428
Adaptors used:	- (N-0411.01)	-	-

Item submitted by

Customer Name:	AECOM ASIA CO LIMITED
Address of Customer:	-
Request No.:	-
Date of receipt:	04-Mar-2016

Date of test: 05-Mar-2016

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	19-Jun-2016	CIGISMEC
Signal generator	DS 360	33873	16-Apr-2016	CEPREI
Signal generator	DS 360	61227	16-Apr-2016	CEPREI

Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	60 ± 10 %
Air pressure:	1010 ± 5 hPa

Test specifications

1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.

2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.

3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory: Huang Jian Min/Feng Jun Qi **Date:** 08-Mar-2016 **Company Chop:** SOILS AND MATERIALS ENGINEERING COMPANY LTD. 綜合試驗有限公司

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
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香港黃竹坑道37號利達中心地下，9樓，12樓，13樓及20樓
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HKLAS 028 CAL

CERTIFICATE OF CALIBRATION

Certificate No.: 15CA0401 01 **Page** 1 **of** 2

Item tested

Description:	Sound Level Meter (Type 1)	,	Microphone
Manufacturer:	B & K	,	B & K
Type/Model No.:	2270	,	4950
Serial/Equipment No.:	2644597	,	2879980
Adaptors used:	-	,	-

Item submitted by

Customer Name:	AECOM ASIA CO. LTD.
Address of Customer:	-
Request No.:	-
Date of receipt:	01-Apr-2015

Date of test: 01-Apr-2015

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	20-Jun-2015	CIGISMEC
Signal generator	DS 360	33873	09-Apr-2015	CEPREI
Signal generator	DS 360	61227	09-Apr-2015	CEPREI

Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	60 ± 10 %
Air pressure:	1010 ± 5 hPa

Test specifications

1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.

2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.

3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory: Huang Jian Min/Feng Jun Qi **Date:** 01-Apr-2015 **Company Chop:** SOILS & MATERIALS ENGINEERING COMPANY LTD 綜合試驗有限公司

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
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Tel : (852) 2873 6860
Fax : (852) 2555 7533

HOKLAS 028
CAL

CERTIFICATE OF CALIBRATION

Certificate No.: 15CA1203 03 **Page:** 1 **of** 2

Item tested

Description:	Acoustical Calibrator (Class 1)
Manufacturer:	Rion Co., Ltd.
Type/Model No.:	NC-73
Serial/Equipment No.:	10307223
Adaptors used:	-

Item submitted by

Curstomer:	AECOM ASIA CO., LTD.
Address of Customer:	-
Request No.:	-
Date of receipt:	03-Dec-2015

Date of test: 03-Dec-2015

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	15-Apr-2016	SCL
Preamplifier	B&K 2673	2239857	22-Apr-2016	CEPREI
Measuring amplifier	B&K 2610	2346941	22-Apr-2016	CEPREI
Signal generator	DS 360	61227	16-Apr-2016	CEPREI
Digital multi-meter	34401A	US36087050	17-Apr-2016	CEPREI
Audio analyzer	8903B	GB41300350	17-Apr-2016	CEPREI
Universal counter	53132A	MY40003662	16-Apr-2016	CEPREI

Ambient conditions

Temperature:	22 ± 1 °C
Relative humidity:	50 ± 10 %
Air pressure:	1010 ± 5 hPa

Test specifications

1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.

2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.

3, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on **page 2** of this certificate.

Approved Signatory: Huang Jian Min/Feng Jun Qi **Date:** 04-Dec-2015 **Company Chop:** SOILS AND MATERIALS ENGINEERING COMPANY LTD. 綜合試驗有限公司

Comments: The results reported in this certificate refer to the conditon of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

APPENDIX E

EM&A Monitoring Schedules

CV/2007/03 - Development at Anderson Road
Impact Air Quality and Noise Monitoring Schedule for March 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Mar	2-Mar	3-Mar	4-Mar	5-Mar
				24-hour TSP 1-hour TSP Noise (ID1-5)		
6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar
			24-hour TSP 1-hour TSP Noise (ID1-5)			
13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar
		24-hour TSP 1-hour TSP Noise (ID1-5)				
20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar
	24-hour TSP 1-hour TSP Noise (ID1-5)			24-hour TSP 1-hour TSP (ID1-5)		
27-Mar	28-Mar	29-Mar	30-Mar	31-Mar		
			24-hour TSP 1-hour TSP Noise (ID1-5)			

CV/2007/03 - Development at Anderson Road
Tentative Impact Air Quality and Noise Monitoring Schedule for April 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Apr	2-Apr
						24-hour TSP 1-hour TSP (ID1-5)
3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr
					24-hour TSP 1-hour TSP Noise (ID1-5)	
10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr
				24-hour TSP 1-hour TSP Noise (ID1-5)		
17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr
			24-hour TSP 1-hour TSP Noise (ID1-5)			
24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr
		24-hour TSP 1-hour TSP Noise (ID1-5)				24-hour TSP 1-hour TSP (ID1-5)

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

APPENDIX F

Air Quality Monitoring Results and their Graphical Presentations

Appendix F
Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station ID 1A (Kwun Tong Government Secondary School)

Date	Start Time (hh:mm)	1st Hour Conc. (μg/m^3)	2nd Hour Conc. (μg/m^3)	3rd Hour Conc. (μg/m^3)
3-Mar-16	9:20	70.6	68.8	65.9
9-Mar-16	10:03	72.6	68.8	67.9
15-Mar-16	9:57	73.9	74.2	74.7
21-Mar-16	11:20	78.7	75.5	76.0
24-Mar-16	10:05	74.8	75.2	74.9
30-Mar-16	9:15	70.8	71.6	68.2
			Average	72.4
			Min	65.9
			Max	78.7

1-hour TSP Monitoring Results at Station ID 2 (On Yat House)

Date	Start Time (hh:mm)	1st Hour Conc. (μg/m^3)	2nd Hour Conc. (μg/m^3)	3rd Hour Conc. (μg/m^3)
3-Mar-16	9:32	72.1	68.4	71.2
9-Mar-16	9:52	62.4	69.8	65.6
15-Mar-16	10:14	73.4	74.0	75.1
21-Mar-16	11:02	77.4	75.1	73.3
24-Mar-16	9:50	75.1	75.3	74.9
30-Mar-16	9:20	73.3	72.8	69.8
			Average	72.2
			Min	62.4
			Max	77.4

1-hour TSP Monitoring Results at Station ID 3 (Sau Nga House)

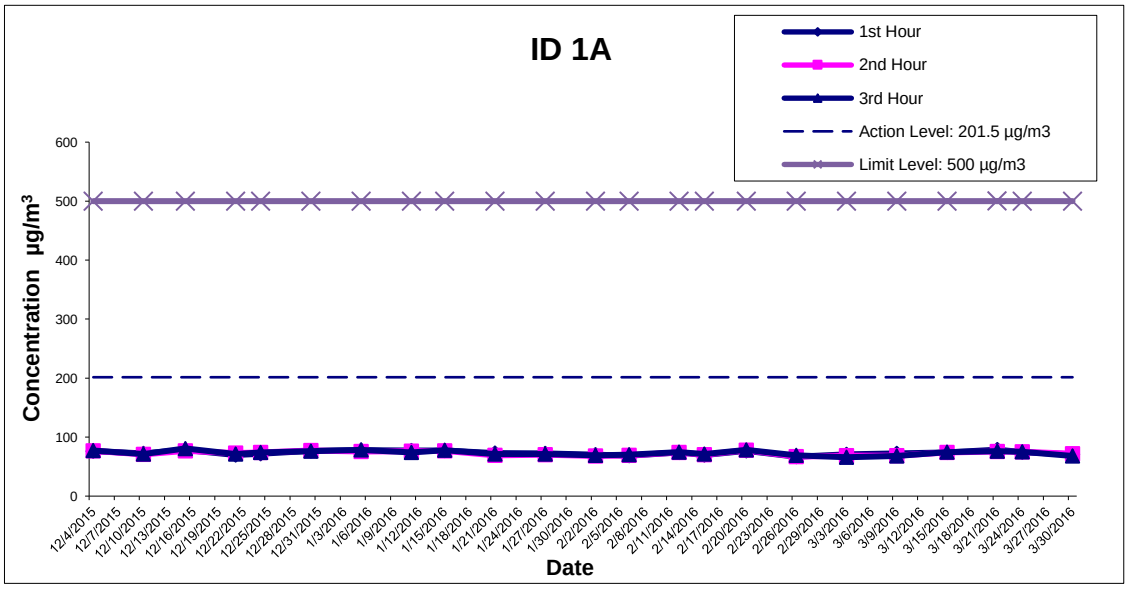
Date	Start Time (hh:mm)	1st Hour Conc. (μg/m^3)	2nd Hour Conc. (μg/m^3)	3rd Hour Conc. (μg/m^3)
3-Mar-16	9:45	74.4	70.8	71.4
9-Mar-16	9:39	66.4	67.5	66.9
15-Mar-16	10:37	76.0	75.2	74.8
21-Mar-16	10:50	77.0	78.8	73.9
24-Mar-16	9:35	75.6	75.2	75.3
30-Mar-16	10:24	68.8	74.2	72.5
			Average	73.0
			Min	66.4
			Max	78.8

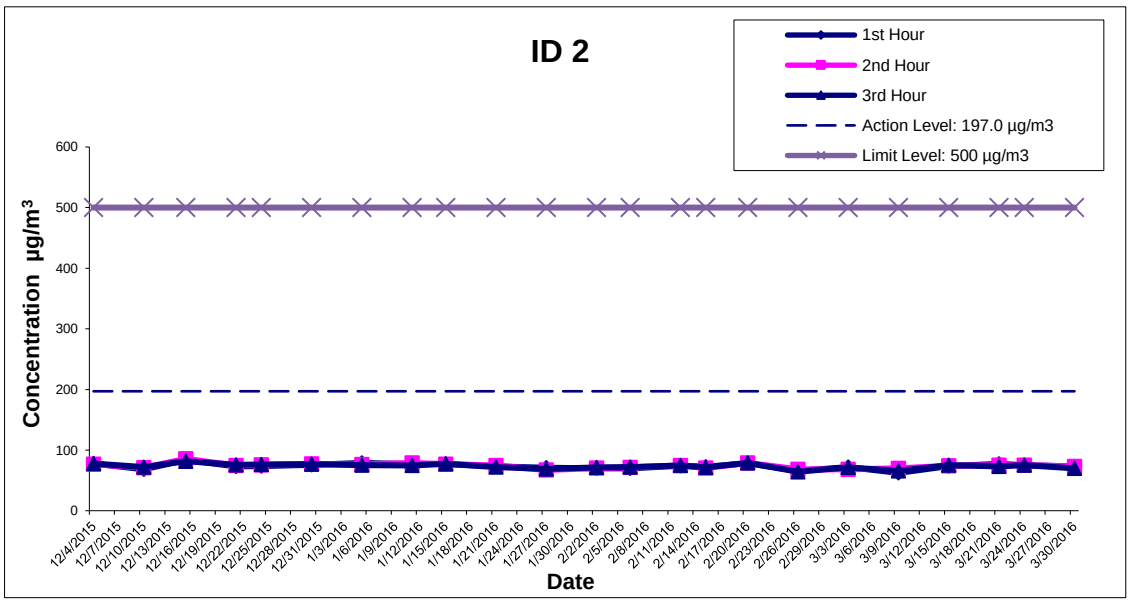
1-hour TSP Monitoring Results at Station ID 4 (Sau Ming Primary School)

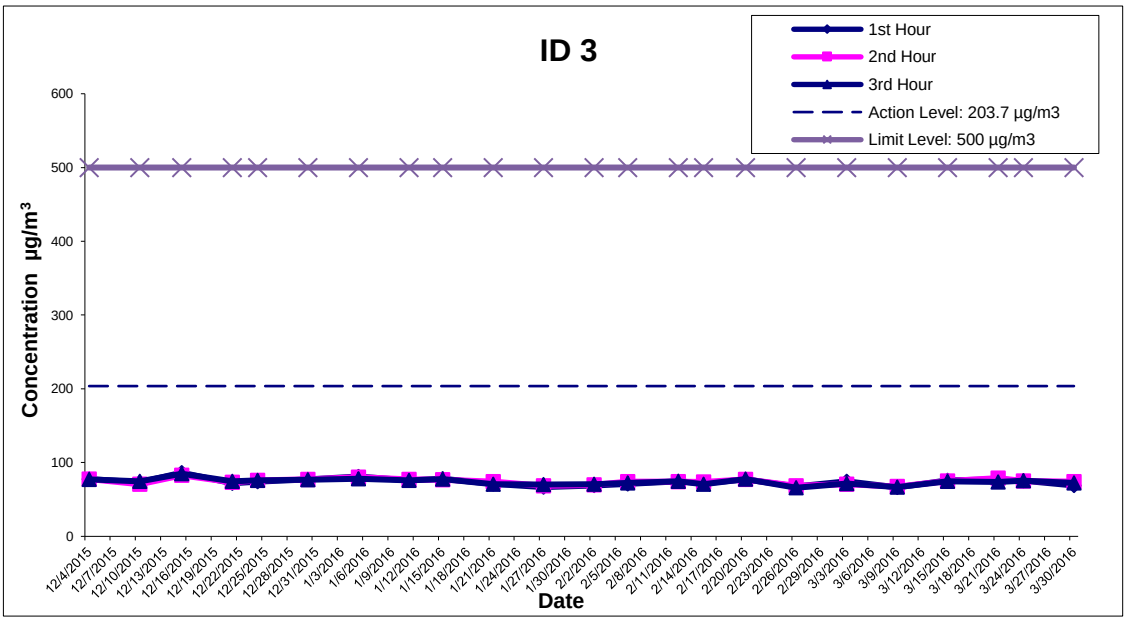
Date	Start Time (hh:mm)	1st Hour Conc. (μg/m^3)	2nd Hour Conc. (μg/m^3)	3rd Hour Conc. (μg/m^3)
3-Mar-16	9:55	72.2	71.1	73.8
9-Mar-16	9:26	67.2	69.7	71.4
15-Mar-16	10:59	76.1	75.6	76.6
21-Mar-16	10:28	75.8	72.6	74.8
24-Mar-16	9:20	75.0	75.5	75.3
30-Mar-16	10:30	72.8	74.2	70.8
			Average	73.4
			Min	67.2
			Max	76.6

1-hour TSP Monitoring Results at Station ID 5 (Sau Mau Ping Catholic Primary School)

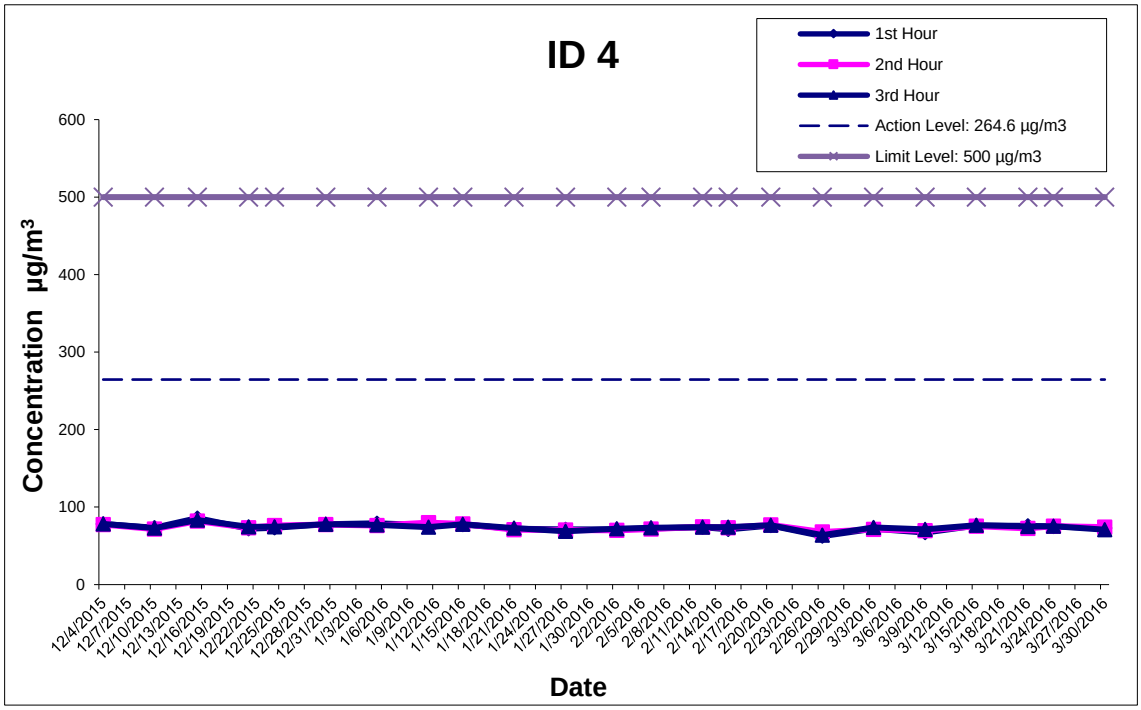
Date	Start Time (hh:mm)	1st Hour Conc. (μg/m^3)	2nd Hour Conc. (μg/m^3)	3rd Hour Conc. (μg/m^3)
3-Mar-16	10:12	68.4	64.7	69.2
9-Mar-16	9:15	72.6	73.9	68.2
15-Mar-16	11:19	74.9	76.8	76.5
21-Mar-16	10:15	77.6	74.0	76.1
24-Mar-16	9:10	74.9	75.0	75.3
30-Mar-16	11:20	70.8	74.5	73.0
			Average	73.1
			Min	64.7
			Max	77.6

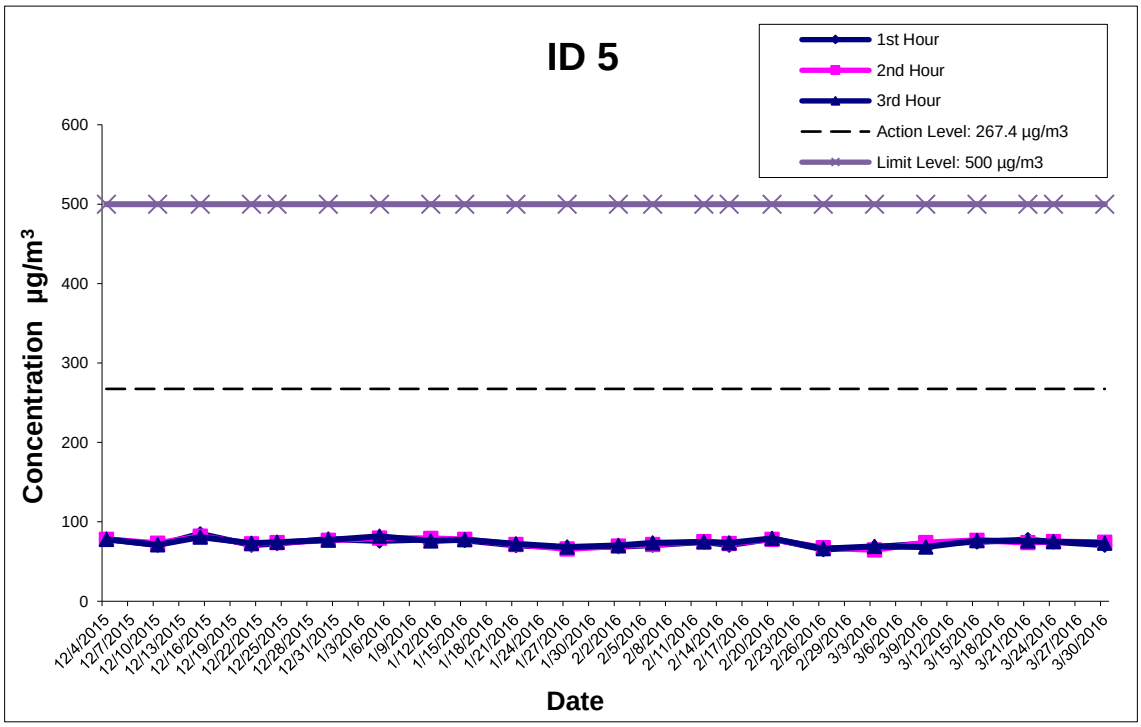






AECOM	**Development at Anderson Road - Site Formation and Associated Infrastructure Works**	SCALE	N.T.S.	DATE	Apr-16
		CHECK	FYW	DRAWN	DTTW
	Graphical Presentations of Impact 1-hour TSP Monitoring Results	JOB NO.	60043155	**APPENDIX No.** F	**Rev.** -





AECOM	**Development at Anderson Road - Site Formation and Associated Infrastructure Works** **Graphical Presentations of Impact 1-hour TSP Monitoring Results**	SCALE	N.T.S.	DATE	Apr-16
		CHECK	FYW	DRAWN	DTTW
		JOB NO.	60043155	**APPENDIX No.** F	**Rev.** -

Appendix F
Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station ID 1A (Kwun Tong Government Secondary School)

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m^3)
				Initial	Final			Initial	Final		Initial	Final		
3-Mar-16	Sunny	18.7	1020.9	1.32	1.31	1.31	1892.7	2.8385	2.9142	0.0757	22415.79	22439.79	24.00	40.0
9-Mar-16	Cloudy	20.8	1012.5	1.31	1.31	1.31	1890.5	2.8414	2.9150	0.0736	22439.79	22463.79	24.00	38.9
15-Mar-16	Cloudy	14.8	1017.1	1.32	1.32	1.32	1907.1	2.8476	2.9405	0.0929	22463.79	22487.79	24.00	48.7
21-Mar-16	Rainy	17.1	1014.8	1.32	1.32	1.32	1906.1	2.7970	2.8509	0.0539	22487.79	22511.79	24.00	28.3
24-Mar-16	Rainy	15.3	1020.2	1.32	1.32	1.32	1902.5	2.8246	2.8526	0.0280	22511.79	22535.79	24.00	14.7
30-Mar-16	Fine	20.0	1018.3	1.31	1.32	1.31	1891.9	2.8948	3.1342	0.2394	22535.79	22559.79	24.00	126.5
													Average	49.5
													Min	14.7
													Max	126.5

24-hour TSP Monitoring Results at Station ID 2 (On Yat House)

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m^3)
				Initial	Final			Initial	Final		Initial	Final		
3-Mar-16	Sunny	18.7	1020.9	1.31	1.30	1.31	1880.1	2.8385	2.9491	0.1106	19681.12	19705.12	24.00	58.8
9-Mar-16	Cloudy	20.8	1012.5	1.31	1.30	1.30	1877.8	2.8373	2.9428	0.1055	19705.12	19729.12	24.00	56.2
15-Mar-16	Cloudy	14.8	1017.1	1.32	1.32	1.32	1894.9	2.8450	2.9390	0.0940	19729.12	19753.12	24.00	49.6
21-Mar-16	Rainy	17.1	1014.8	1.32	1.32	1.32	1893.8	2.7883	2.8219	0.0336	19753.12	19777.12	24.00	17.7
24-Mar-16	Rainy	15.3	1020.2	1.31	1.32	1.31	1889.9	2.7839	2.8116	0.0277	19777.12	19801.12	24.00	14.7
30-Mar-16	Fine	20.0	1018.3	1.30	1.31	1.31	1879.3	2.8857	2.9438	0.0581	19801.12	19825.12	24.00	30.9
													Average	38.0
													Min	14.7
													Max	58.8

24-hour TSP Monitoring Results at Station ID 3 (Sau Nga House)

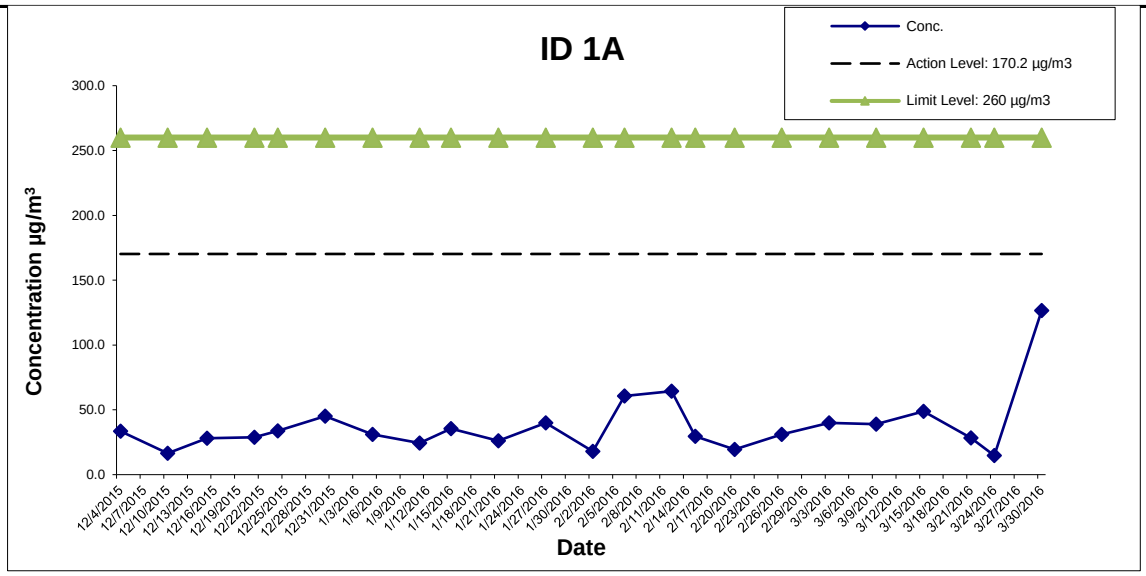
Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m^3)
				Initial	Final			Initial	Final		Initial	Final		
3-Mar-16	Sunny	18.7	1020.9	1.32	1.31	1.32	1894.5	2.8555	2.9422	0.0867	22019.01	22043.01	24.00	45.8
9-Mar-16	Cloudy	20.8	1012.5	1.32	1.31	1.31	1892.2	2.8397	2.8970	0.0573	22043.01	22067.01	24.00	30.3
15-Mar-16	Cloudy	14.8	1017.1	1.33	1.33	1.33	1909.3	2.8253	2.9069	0.0816	22067.01	22091.01	24.00	42.7
21-Mar-16	Rainy	17.1	1014.8	1.33	1.33	1.33	1908.2	2.7840	2.8256	0.0416	22091.01	22115.01	24.00	21.8
24-Mar-16	Rainy	15.3	1020.2	1.38	1.33	1.35	1947.7	2.7910	2.8193	0.0283	22115.01	22139.01	24.00	14.5
30-Mar-16	Fine	20.0	1018.3	1.31	1.32	1.32	1893.7	2.8739	3.0382	0.1643	22139.01	22163.01	24.00	86.8
													Average	40.3
													Min	14.5
													Max	86.8

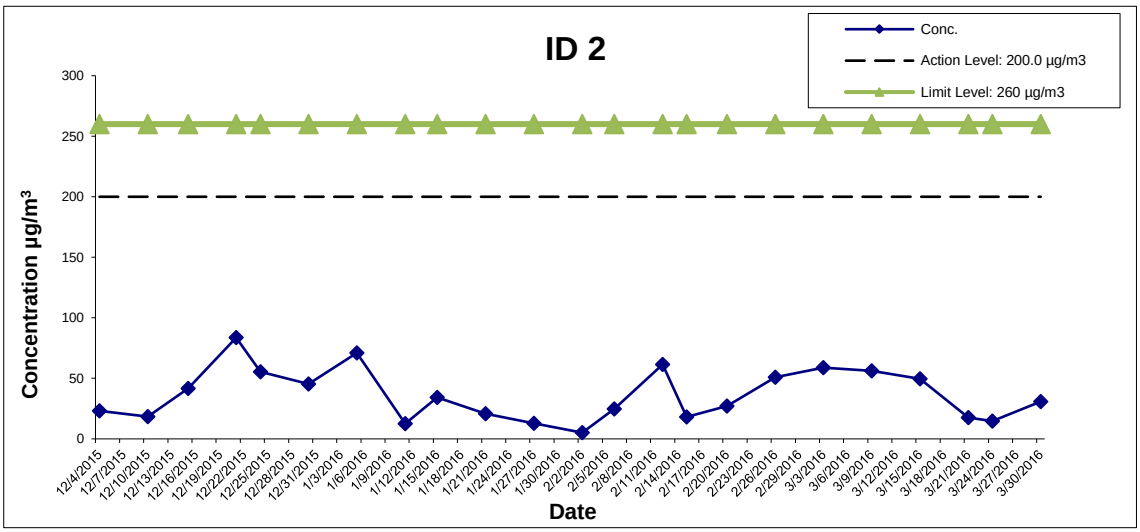
24-hour TSP Monitoring Results at Station ID 4 (Sau Ming Primary School)

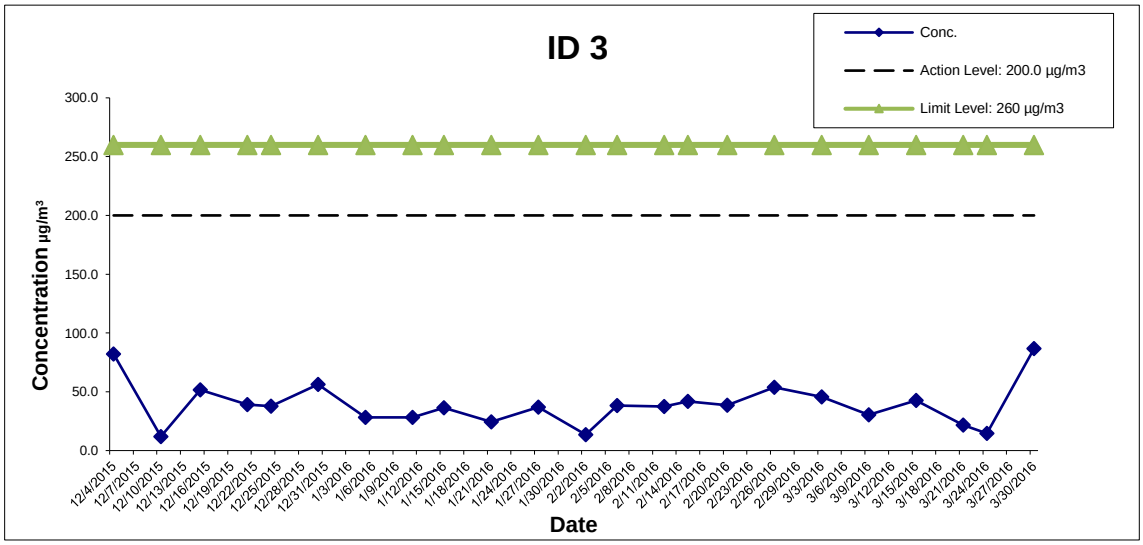
Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m^3)
				Initial	Final			Initial	Final		Initial	Final		
3-Mar-16	Sunny	18.7	1020.9	1.32	1.31	1.32	1894.8	2.8597	2.9591	0.0994	22695.07	22719.07	24.00	52.5
9-Mar-16	Cloudy	20.8	1012.5	1.32	1.31	1.31	1892.2	2.8414	2.8899	0.0485	22719.07	22743.07	24.00	25.6
15-Mar-16	Cloudy	14.8	1017.1	1.33	1.33	1.33	1911.3	2.8376	2.9320	0.0944	22743.07	22767.07	24.00	49.4
21-Mar-16	Rainy	17.1	1014.8	1.33	1.33	1.33	1910.1	2.7890	2.8403	0.0513	22767.07	22791.07	24.00	26.9
24-Mar-16	Rainy	15.3	1020.2	1.32	1.33	1.32	1906.1	2.7998	2.8351	0.0353	22791.07	22815.07	24.00	18.5
30-Mar-16	Fine	20.0	1018.3	1.31	1.32	1.31	1892.8	2.8904	3.0618	0.1714	22815.07	22839.07	24.00	90.6
													Average	43.9
													Min	18.5
													Max	90.6

24-hour TSP Monitoring Results at Station ID 5 (Sau Mau Ping Catholic Primary School)

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m^3)
				Initial	Final			Initial	Final		Initial	Final		
3-Mar-16	Sunny	18.7	1020.9	1.31	1.31	1.31	1888.0	2.8292	2.8875	0.0583	17510.37	17534.37	24.00	30.9
9-Mar-16	Cloudy	20.8	1012.5	1.31	1.31	1.31	1885.4	2.8608	2.9230	0.0622	17534.37	17558.37	24.00	33.0
15-Mar-16	Cloudy	14.8	1017.1	1.32	1.32	1.32	1904.0	2.8405	2.9350	0.0945	17558.37	17582.37	24.00	49.6
21-Mar-16	Rainy	17.1	1014.8	1.32	1.32	1.32	1902.7	2.8056	2.8687	0.0631	17582.37	17606.37	24.00	33.2
24-Mar-16	Rainy	15.3	1020.2	1.31	1.32	1.32	1898.9	2.8077	2.8478	0.0401	17606.37	17630.37	24.00	21.1
30-Mar-16	Fine	20.0	1018.3	1.31	1.31	1.31	1887.0	2.8799	3.0355	0.1556	17630.37	17654.37	24.00	82.5
													Average	41.7
													Min	21.1
													Max	82.5







AECOM	**Development at Anderson Road - Site Formation and Associated Infrastructure Works** **Graphical Presentations of Impact 24-hour TSP Monitoring Results**	SCALE	N.T.S.	DATE	Apr-16
		CHECK	FYW	DRAWN	DTTW
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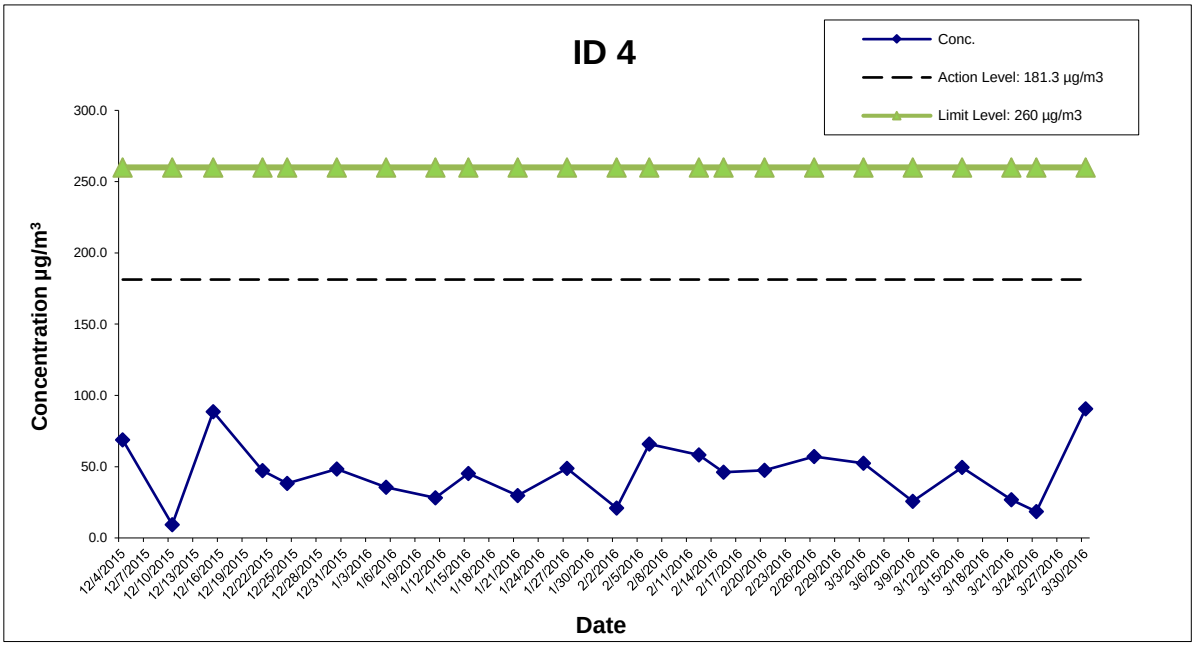

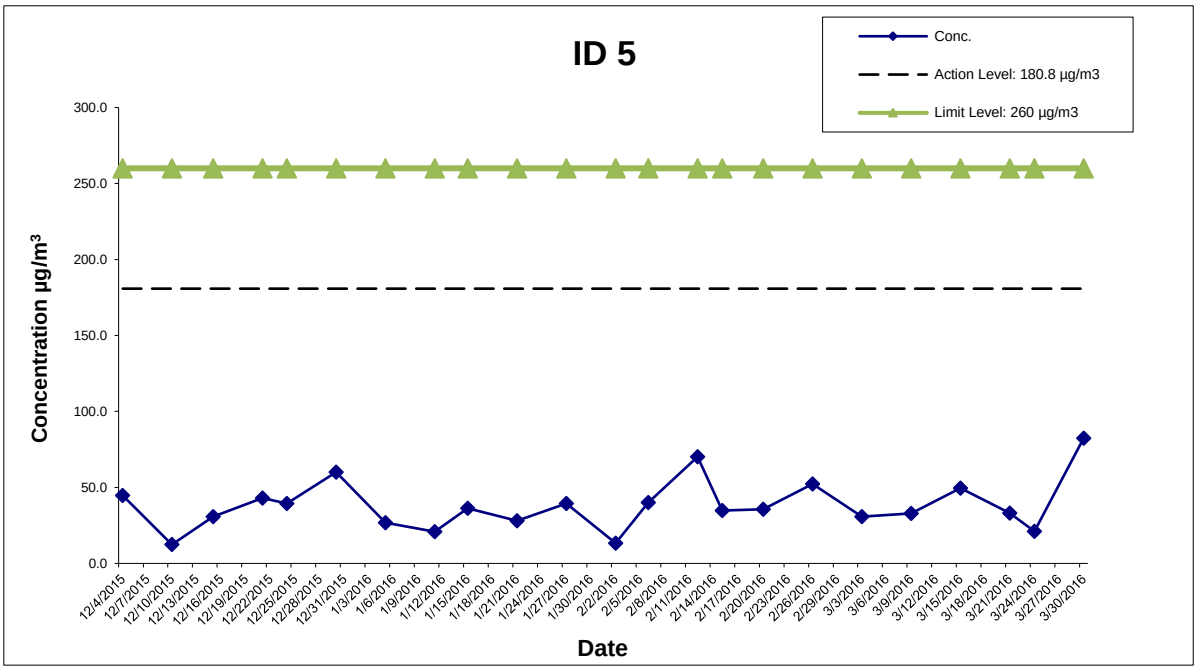

AECOM	**Development at Anderson Road - Site Formation and Associated Infrastructure Works** **Graphical Presentations of Impact 24-hour TSP Monitoring Results**	SCALE	N.T.S.	DATE	Apr-16
		CHECK	FYW	DRAWN	DTTW
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APPENDIX G

Noise Monitoring Results and their Graphical Presentations

Appendix G Noise Monitoring Results

Daytime Noise Monitoring Results at Station ID 1A (Kwun Tong Government Secondary School)

Date	Weather Condition	Noise Level for 30-min, dB(A)+				Baseline Corrected Level, dB(A)	Baseline Noise Level, dB(A)	Limit Level**, dB(A)	Exceedance (Y/N)
		Time	L90	L10	Leq				
3-Mar-16	Sunny	13:02	59.9	67.4	64.0	62.8	57.8	70	N
9-Mar-16	Cloudy	10:03	59.6	66.7	63.8	62.5	57.8	70	N
15-Mar-16	Cloudy	9:57	61.7	64.6	62.9	61.3	57.8	70	N
21-Mar-16	Fine	11:22	61.5	66.2	64.3	63.2	57.8	70	N
30-Mar-16	Fine	9:15	60.0	66.8	63.1	61.6	57.8	70	N
		Min	59.6	64.6		61.3			
		Max	61.7	67.4		63.2			
		Average	--	--		62.3			

Daytime Noise Monitoring Results at Station ID 2 (On Yat House)

Date	Weather Condition	Noise Level for 30-min, dB(A)+				Baseline Corrected Level, dB(A)	Baseline Noise Level, dB(A)	Limit Level, dB(A)	Exceedance (Y/N)
		Time	L90	L10	Leq				
3-Mar-16	Sunny	13:42	59.6	63.2	67.4	65.9	62.0	75	N
9-Mar-16	Cloudy	10:43	60.6	68.7	67.7	66.3	62.0	75	N
15-Mar-16	Cloudy	15:01	62.2	64.4	63.4	57.8	62.0	75	N
21-Mar-16	Fine	14:43	65.2	69.5	68.1	66.9	62.0	75	N
30-Mar-16	Fine	9:26	58.2	64.4	67.8	66.5	62.0	75	N
		Min	58.2	63.2		57.8			
		Max	65.2	69.5		66.9			
		Average	--	--		65.6			

Daytime Noise Monitoring Results at Station ID 3 (Sau Nga House)

Date	Weather Condition	Noise Level for 30-min, dB(A)+				Baseline Corrected Level, dB(A)	Baseline Noise Level, dB(A)	Limit Level, dB(A)	Exceedance (Y/N)
		Time	L90	L10	Leq				
3-Mar-16	Sunny	14:40	58.2	66.8	63.2	63.2	64.1	75	N
9-Mar-16	Cloudy	11:29	61.2	69.4	64.6	55.0	64.1	75	N
15-Mar-16	Cloudy	11:47	63.1	64.8	64.0	64.0	64.1	75	N
21-Mar-16	Fine	14:01	65.4	69.3	67.7	65.2	64.1	75	N
30-Mar-16	Fine	10:12	58.8	67.0	63.2	63.2	64.1	75	N
		Min	58.2	64.8		55.0			
		Max	65.4	69.4		65.2			
		Average	--	--		63.1			

Daytime Noise Monitoring Results at Station ID 4 (Sau Ming Primary School)

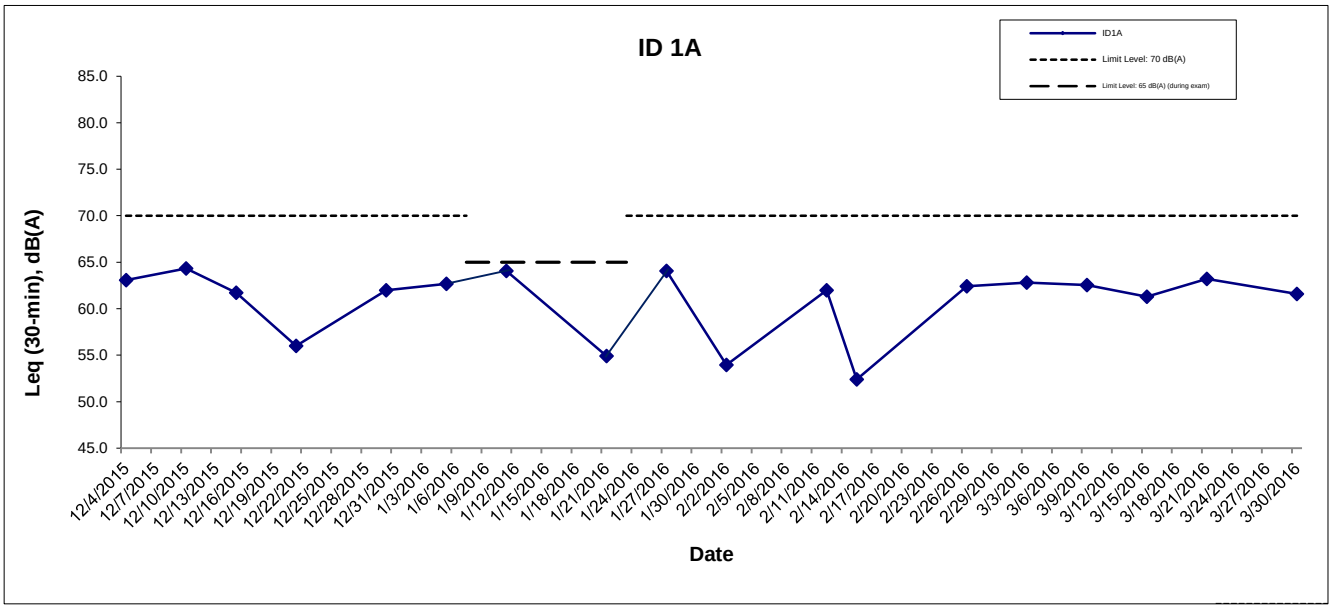
Date	Weather Condition	Noise Level for 30-min, dB(A)+				Baseline Corrected Level, dB(A)	Baseline Noise Level, dB(A)	Limit Level**, dB(A)	Exceedance (Y/N)
		Time	L90	L10	Leq				
3-Mar-16	Sunny	10:59	60.5	67.4	64.2	64.2	65.7	70	N
9-Mar-16	Cloudy	13:10	60.6	67.8	64.2	64.2	65.7	70	N
15-Mar-16	Cloudy	10:59	63.9	67.1	66.0	54.2	65.7	70	N
21-Mar-16	Fine	13:16	63.9	67.8	66.3	57.4	65.7	65	N
30-Mar-16	Fine	10:19	60.5	68.9	64.0	64.0	65.7	70	N
		Min	60.5	67.1		54.2			
		Max	63.9	68.9		64.2			
		Average	--	--		62.3			

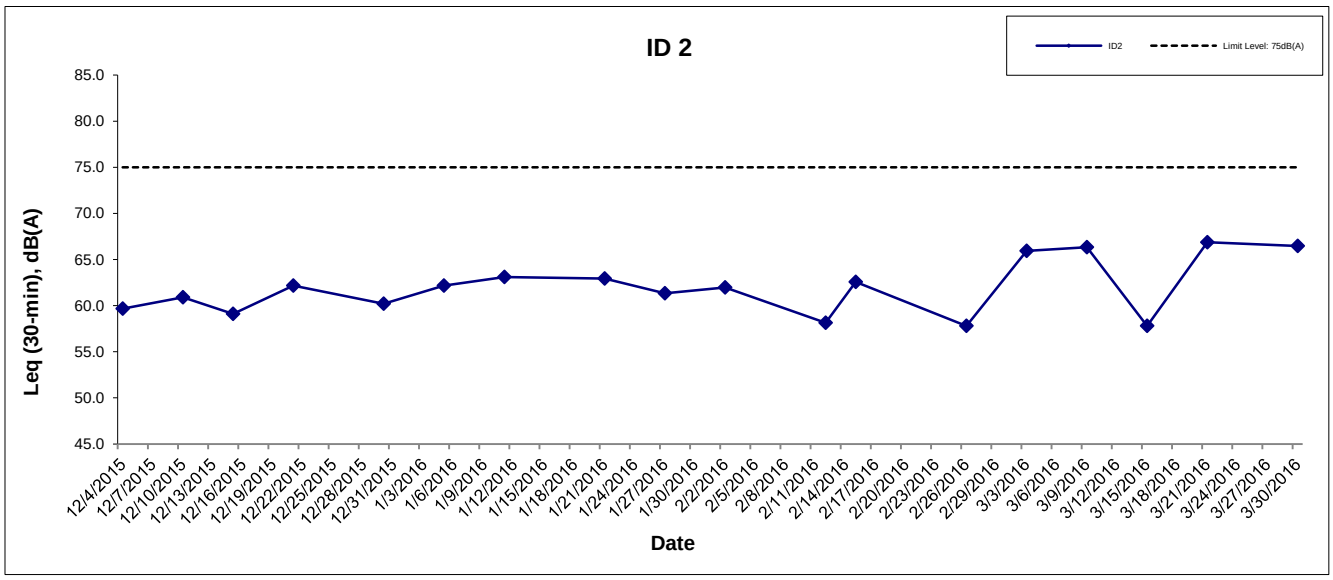
Daytime Noise Monitoring Results at Station ID 5 (Sau Mau Ping Catholic Primary School)

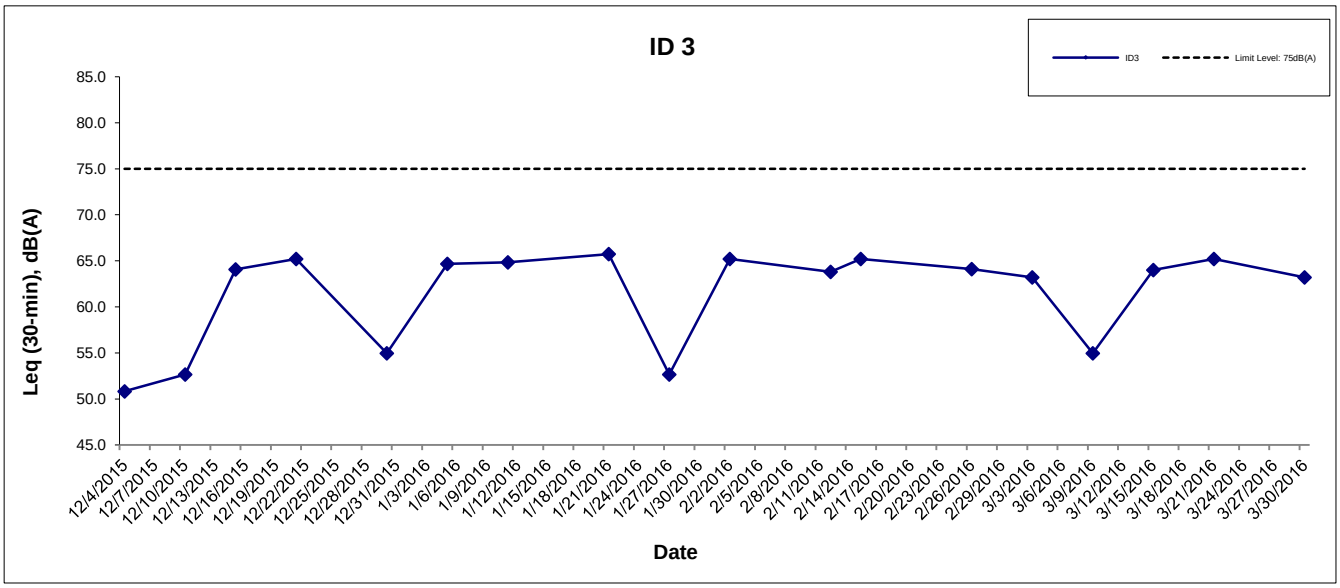
Date	Weather Condition	Noise Level for 30-min, dB(A)+				Baseline Corrected Level, dB(A)	Baseline Noise Level, dB(A)	Limit Level**, dB(A)	Exceedance (Y/N)
		Time	L90	L10	Leq				
3-Mar-16	Sunny	10:12	60.5	67.5	63.4	63.4	64.7	70	N
9-Mar-16	Cloudy	13:59	59.6	68.3	64.1	64.1	64.7	70	N
15-Mar-16	Cloudy	14:06	63.3	68.4	67.2	63.6	64.7	70	N
21-Mar-16	Fine	15:28	63.2	66.8	65.3	56.4	64.7	70	N
30-Mar-16	Fine	13:10	61.6	67.2	64.0	64.0	64.7	70	N
		Min	59.6	66.8		56.4			
		Max	63.3	68.4		64.1			
		Average	--	--		63.0			

+ - Façade measurement

** - Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.





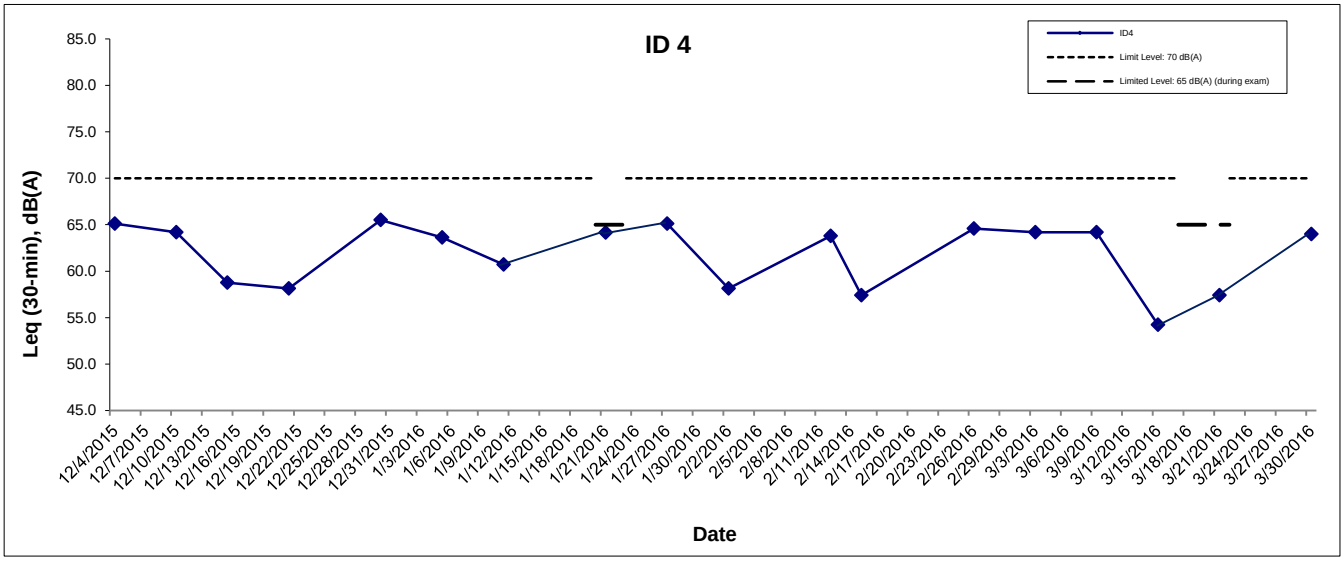


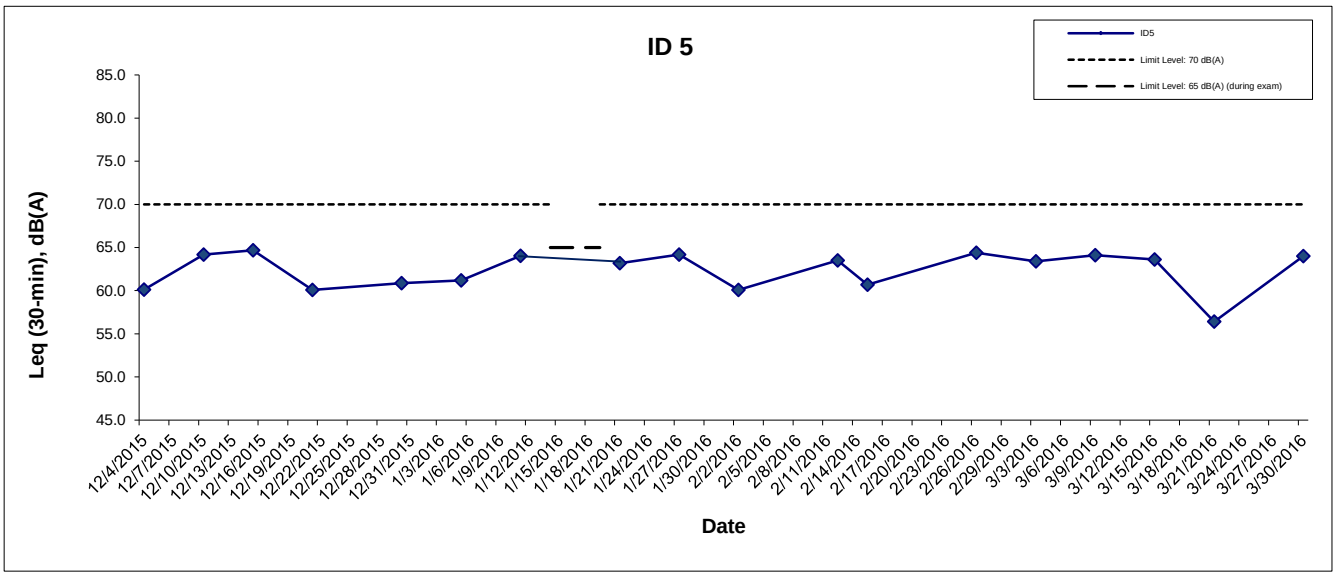
AECOM

Development at Anderson Road - Site Formation and Associated Infrastructure Works

Graphical Presentations of Noise Monitoring Results

SCALE	N.T.S.	DATE	Apr-16
CHECK	FYW	DRAWN	DTTW
JOB NO.	60043155	APPENDIX G	Rev -





AECOM	**Development at Anderson Road - Site Formation and Associated Infrastructure Works**	SCALE	N.T.S.	DATE	Apr-16
		CHECK	FYW	DRAWN	DTTW
	Graphical Presentations of Noise Monitoring Results	JOB NO.	60043155	**APPENDIX** G	**Rev** -

APPENDIX H

Meteorological Data for the Reporting Month

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Daily Extract of Meteorological Observations , March 2016 - Tseung Kwan O

Year 2016 Month 3 Go

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	19.1	15.5	13.4	10.3	73	0.0	350	8.4
02	***	19.3	15.3	12.9	10.1	73	0.0	350	7.3
03	***	23.7	17.1	12.5	12.2	76	0.0	360	4.0
04	***	24.1	19.1	15.6	16.0	83	0.0	360	4.3
05	***	23.4	19.8	17.0	16.0	79	0.0	360	3.7
06	***	26.5	20.8	16.6	17.1	81	0.0	360	3.3
07	***	19.7	17.9	16.8	17.4	97	1.0	360	4.1
08	***	20.6	18.8	17.8	18.2	97	0.0	360	3.4
09	***	21.4	19.6	16.1	19.3	98	15.0	360	3.8
10	***	16.1	12.1	9.0	10.9	93	18.0	350	7.9
11	***	13.8	10.9#	9.0	7.0#	77#	0.0#	350#	6.4#
12	***	13.7	13.2#	12.4	12.2#	94#	1.5#	350#	7.6#
13	***	16.4	15.3	13.6	15.1	99	8.5	350	4.8
14	***	16.4	14.5	12.7	11.9	85	0.5	350	6.6
15	***	15.1	14.1	13.1	10.5	80	0.0	350	7.5
16	***	15.7	14.8	13.3	13.3	91	4.0	350	6.6
17	***	16.7	15.9	15.2	15.8	99	8.0	350	4.8
18	***	21.1	18.7	16.5	18.5	99	0.5	360	2.5
19	***	23.9	21.4	19.5	21.0	97	0.0	360	3.2
20	***	21.6	17.8	16.4	16.9	94	1.5	350	7.5
21	***	17.5	16.4	15.7	15.9	97	65.0	350	7.7
22	***	16.5	15.9	15.3	15.7	99	5.0	350	6.7
23	***	19.9	17.6	16.4	17.5	99	10.0	360	4.4
24	***	16.8	14.6	11.9	14.1	97	38.5	350	6.6
25	***	15.3	12.2	9.5	9.5	85	1.5	350	4.9
26	***	19.8	13.6	8.5	9.2	77	0.0	360	4.5
27	***	21.8	14.9#	10.4	6.5#	64#	0.0#	350#	7.1#
28	***	***	***	***	***	***	***	***	***
29	***	19.1	17.3#	16.3	9.8#	63#	0.0#	360#	4.2#
30	***	21.4	19.1	16.6	15.6	80	0.0	360	3.5
31	***	24.9	20.4	17.0	18.4	89	0.0	360	2.8

*** unavailable

data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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APPENDIX I

Event Action Plan

Appendix I – Event Action Plan

Event and Action Plan for Air Quality

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

Event and Action Plan for Air Quality

Event	ACTION			
	ET	**IC(E)**	**ER**	**Contractor**
LIMIT LEVEL				
Exceedance for one sample	1. Identify source. 2. Inform ER and EPD. 3. Repeat measurement to confirm finding. 4. Increase monitoring frequency to daily. 5. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results.	1. Check monitoring data submitted by ET. 2. Check Contractor's working method. 3. Discuss with ET and Contractor on possible remedial measures. 4. Advise ER on the effectiveness of proposed remedial measures. 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify Contractor. 3. Ensure remedial actions properly implemented.	1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification. 3. Implement the agreed proposals 4. Amend proposal if appropriate.
Exceedance for two or more consecutive samples	1. Identify source. 2. Inform ER and EPD. 3. Repeat measurements to confirm finding. 4. Increase monitoring frequency to daily. 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to by implemented. 6. Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken. 7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results. 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET and Contractor on the potential remedial actions. 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly. 3. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify Contractor. 3. In consultation with IC(E), agree with Contractor on the remedial measures to be implemented. 4. Ensure remedial measures properly implemented. 5. If exceedance continues, consider what portion of the work is responsible and instruct Contractor to stop the portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification. 3. Implement the agreed proposals. 4. Amend proposal if appropriate.

Event and Action Plan for Noise

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

APPENDIX J

Cumulative Statistics of Exceedances, Complaints, Notification of Summons and Successful Prosecutions

Appendix J - Cumulative Statistics on Exceedances, Complaints, Notification of Summons and Successful Prosecutions

Cumulative statistics on Exceedances

		Total no. recorded in this month	Total no. recorded since project commencement
1-Hour TSP	Action	-	-
	Limit	-	-
24-Hour TSP	Action	-	15
	Limit	-	1
Noise	Action	-	32
	Limit	-	1

Cumulative statistics on Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no. recorded in this month	Total no. recorded since project commencement
Environmental complaints	-	-	-	-	74
Notification of summons	-	-	-	-	6
Successful Prosecutions	-	-	-	-	2