

Ref.: OAPANDSNEM00 0 1068L.13

12 August 2013

By Fax (3656 3100 / 2407 8382) and Post

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/2012/07
Development at Anderson Road
Footbridge D and Associated Works Area

Monthly EM&A Report for July 2013

Reference is made to the Environmental Team's submission of the draft Monthly EM&A Report for July 2013 received by E-mail on 07 August 2013 and the subsequent revision of the

We are pleased to inform you that we have no adverse comment on the revised report received by E-mail on 09 August 2013.

Thank you very much for your kind attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,

David Yeung

Independent Environmental Checker

report by E-mail on 09 August 2013.

c.c. Lam

Attn: Mr. Derek Lo

LPWJV

Attn: Mr. Tak-Leung Lo

Fax: 2882 3331 Fax: 3171 7222

Q:\Projects\OAPANDSNEM00\Corr\OAPANDSNEM00_0_1068L.13.doc

CONTRACT NO: CV/2012/07

DEVELOPMENT AT ANDERSON ROAD - FOOTBRIDGE D AND ASSOCIATED WORKS AREA

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- JULY 2013 -

CLIENTS:

Lam-Po Wing Joint Venture

PREPARED BY:

Lam Environmental Services Limited

11/F Centre Point 181-185 Gloucester Road, Wanchai, H.K.

Telephone: (852) 2882-3939 Facsimile: (852) 2882-3331 E-mail: <u>info@lamenviro.com</u>

Website: http://www.lamenviro.com

CERTIFIED BY:

Derek Lo

Environmental Team Leader

DATE:

07 August 2013

Development at Anderson Road - Footbridge D and Associated Works Area

TABLE OF CONTENTS

EXI	ECUTIV	/E SUMMARY	3
1.	INTR	ODUCTION	5
	1.1 1.2	Scope of the ReportStructure of the Report	5 5
2.	PRO	JECT BACKGROUND	7
	2.1 2.2 2.3	BackgroundScope of the Project and Site DescriptionProject Organization and Contact Personnel	7
3.	STA	TUS OF REGULATORY COMPLIANCE	9
	3.1	Status of Environmental Licensing and Permitting under the Project	9
4.	MON	ITORING REQUIREMENTS	9
	4.1 4.2	Noise Monitoring	
5.	MON	ITORING RESULTS	12
	5.1 5.2 5.3	Noise Monitoring Results	12
6.	COM	PLIANCE AUDIT	14
	6.1 6.2 6.3 6.4	Noise Monitoring Air Monitoring Review of the Reasons for and the Implications of Non-compliance Summary of action taken in the event of and follow-up on non-compliance	14 14
7.	ENV	RONMENTAL SITE AUDIT	15
8.	COM	PLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION	16
۵	CON	CLUSION	17



Development at Anderson Road –
Footbridge D and Associated Works Area

LIST OF TABLES

Table 2.1	Contact Details of Key Personnel
Table 3.1	Summary of the current status on licences and/or permits on environmental protection pertinent to the Project
Table 4.1	Noise Monitoring Stations
Table 4.2	Air Monitoring Station
Table 5.1	Summary of Noise Monitoring Results at NM1 and NM2
Table 5.2	Summary of Air Monitoring Results at AQM1 - 24 hr TSP Monitoring
Table 5.3	Summary of Air Monitoring Results at AQM1 - 1 hr TSP Monitoring
Table 5.4	Details of Waste Disposal for Contract no. CV/2012/07
Table 7.1	Summary of Environmental Inspections for Contract no. CV/2012/07
Table 8.1	Cumulative Statistics on Complaints
Table 8.2	Cumulative Statistics on Successful Prosecutions

LIST OF FIGURES

Figure 2.1	Project Layout
Figure 2.2	Project Organization Chart
Figure 4.1	Locations of Environmental Monitoring Stations

LIST OF APPENDICES

nth
3

EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – July 2013 project "Development at Anderson Road – Footbridge D and Associated Works Area" (Hereafter called "this Project"). The construction works of this project was commenced on 20 July 2013. This is the 1st month of EM&A report presenting the environmental monitoring findings and information recorded during the period 20 July 2013 to 31 July 2013. The cut-off date of reporting is at the end of each reporting month.

Construction Activities for the Reported Period

- Site clearance
- · Erection of hoarding and chain-link fence
- Slope excavation
- Tree survey
- Land drilling works
- Utility diversion

Noise Monitoring

ii. Noise monitoring during daytime was conducted at the stations NM1 and NM2 on a weekly basis in the reporting month. No exceedance was recorded in the reporting month.

Air Quality Monitoring

iii. Air quality monitoring has been conducted at station AQM1. No exceedance was recorded in the reporting month.

Complaints, Notifications of Summons and Successful Prosecutions

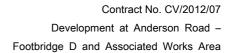
iv. No complaint and notifications of summons or successful prosecutions were recorded in this reporting month.

Site Inspections and Audit

v. The Environmental Team (ET) conducted weekly site inspections for Contract no. CV/2012/07 in the reporting month. Major observations and recommendations made during the audit sessions were rectified by the Contractors. No non-conformance was identified during the site inspections.

Future Key Issues

- vi. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:
 - Site clearance
 - Erection of hoarding and chain-link fence



- Slope excavation
- Tree survey
- Land drilling works
- Utility diversion

Reporting Change

vii. There are no reporting changes in this Reporting Period.



1. Introduction

1.1 Scope of the Report

- 1.1.1. Lam Environmental Services Limited (LES) has been appointed to work as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Development of Anderson Road.
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 1.4 of EM&A Manual and "Environmental Monitoring and Audit Requirements" under Particular Specification Section 25.
- 1.1.3. The construction works of this project was commenced on 20 July 2013. This report documents the finding of EM&A works for this Project and during the period 20 July 2013 to 31 July 2013. The cut-off date of reporting is at the end of each reporting month.

1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- **Section 2 Project Background** summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- **Section 3 Status of Regulatory Compliance** summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- **Section 4** *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- **Section 5** *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- **Section 6 Compliance Audit** summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 7 Cumulative Construction Impact due to the Concurrent Projects summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.
- **Section 8 Site Inspection** summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 9 Complaints, Notification of summons and Prosecution summarizes the

Contract No. CV/2012/07

Development at Anderson Road –
Footbridge D and Associated Works Area

cumulative statistics on complaints, notification of summons and prosecution

Section 10 Conclusion

Development at Anderson Road - Footbridge D and Associated Works Area

2. Project Background

2.1 Background

- 2.1.1. The main objective of the project "Development at Anderson Road Footbridge D and Associated Works Area" (Hereafter called "this Project") is to construct a footbridge, Footbridge D, and associated lift towers across Shun On Road between the existing Shun Tin Estate and the future development platform.
- 2.1.2. For this project, Tin Wan House (NM1) and Ning Po No.2 College (NM2 and AQM1) will be the monitoring station during the construction period. Owing to this contract is under the master project and on the other hand, the construction area is vicinity to the monitoring station (On Yat House) ID2 and (Sau Nga House) ID3 of the master project, so that the baseline noise and air quality monitoring will adopt the baseline data from those stations instead of conducting baseline monitoring. All the baseline data are referred to the baseline report from the public domain web site (www.anderson-road.com/main.htm).
- 2.1.3. The construction works of this project was commenced on 20 July 2013. During the construction phase of the project, air quality (dust) and noise impacts from the development site itself and the adjacent Anderson Road Quarry and other nearby construction sites are identified as the major environmental issues of concern. Besides, waste management is also identified in the EIA study as another environmental issue during the construction phase of the project that requires mitigation measures.

2.2 Scope of the Project and Site Description

- 2.2.1. The Project is located mainly near Shun Tin Estate and is Ning Po No.2 College, as shown in *Figure 2.1*.
- 2.2.2. The scope of the Project comprises:
 - Construction of footbridge and associated lift towers between Shun On Road and future platform at +152mPD and across Shun On Road. In Conjunction with these footbridge works are the associated furniture, drainage system, irrigation system and traffic signs.
 - Construction of drainage system for diversion of an existing stream on the slop[e adjoining Footbridge D.
 - Site formation and associated slopeworks for Footbridge D adjacent to Shun On Road.

2.3 Project Organization and Contact Personnel

2.4.1. Civil Engineering and Development Department is the overall project controllers for this project. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.



2.4.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in *Figure 2.2*. Key personnel and contact particulars are summarized in *Table 2.1*:

Table 2.1 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
Ove Arup	Engineer	Chief Resident Engineer	Dennis Leung	3656 3000	3656 1000
		Resident Engineer	Kenneth Lee	3656 3000	3656 1000
Lam-Po Wing Joint Venture	Contractor under Contract	Project Manager	K.C. Wong	2318 0281	3171 7222
	no. CV/2012/07	Site Agent	T.L. Lo	2318 0281	
		Safety Officer	K.W. Lau	2318 0281	
		Environmental Officer	K.I. Ip	2318 0281	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Environmental Services Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Derek Lo	2882 3939	2882 3939

- 2.4.3. For Contract no. CV/2012/07, the principal work activities in this reporting month included:
 - Site clearance
 - Erection of hoarding and chain-link fence
 - Slope excavation
 - Tree survey
 - · Land drilling works
 - Utility diversion
- 2.4.4. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:
 - Site clearance
 - Erection of hoarding and chain-link fence
 - Slope excavation
 - Tree survey
 - Land drilling works
 - Utility diversion



3. Status of Regulatory Compliance

3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

Table 3.1 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Discharge Licence	WT00015447-2013	27 March 2013	31 March 2018	Valid
Billing Account under Waste Disposal Ordinance	7017083	15 March 2013	N/A	Valid
The Air Pollution Control (Construction Dust) Regulation	355705	14 February 2013	N/A	Valid
Form A – Application for Water Pollution Control Licence	355706	14 February 2013	N/A	Valid

4. Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

4.1.1. The noise monitoring has been undertaken at the designated locations Tin wan house (NM1) and Ning Po No.2 College (NM2). The detailed information of monitoring stations for the Project are listed and shown in *Table 4.1* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Table 4.1 Noise Monitoring Stations

Station ID	Monitoring Location
NM1	G/F of Tin Wan House
NM2	G/F of Ning Po No.2 College

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

4.1.2. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{eq (30 minutes)} shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, L_{eq (5 minutes)} shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.

- 4.1.3. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
 - one set of measurements between 0700 and 1900 hours on normal weekdays.
- 4.1.4. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

MONITORING EQUIPMENT

- 4.1.5. As referred to in the Technical Memorandum (TM) issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 4.1.6. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

4.2.1. The air monitoring has been conducted at the designated location Ning Po No.2 College (AQM1). The air monitoring stations for the Project are listed and shown in *Table 4.2* and *Figure 4.1*. Appendix 4.1 shows the established Action/Limit Levels for the monitoring works.

Table 4.2 Air Monitoring Station

Station ID	Monitoring Location	
AQM1	Roof Top of Ning Po No.2 College	

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.

Footbridge D and Associated Works Area

Lam Environmental Services Limited

4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
 - 0.6 1.7 m3 per minute adjustable flow range;
 - equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
 - installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - capable of providing a minimum exposed area of 406 cm2;
 - flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
 - equipped with a shelter to protect the filter and sampler;
 - incorporated with an electronic mass flow rate controller or other equivalent devices;
 - equipped with a flow recorder for continuous monitoring;
 - provided with a peaked roof inlet;
 - incorporated with a manometer;
 - able to hold and seal the filter paper to the sampler housing at horizontal position;
 - · easily changeable filter; and
 - capable of operating continuously for a 24-hour period.
- 4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The calibration data shall be properly documented for future reference by concerned parties such as the IEC. All the data should be converted into standard temperature and pressure equivalents.

LABORATORY MEASUREMENT / ANALYSIS

- 4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 4.2.8. If a site laboratory is set up or a non-HOKLAS accredited laboratory is retained for analysis, laboratory equipment shall be provided by the ER in consultation with the IC(E). Measurement performed by the laboratory shall be demonstrated to the satisfaction of the ER and the IC(E). The IC(E)shall conduct regular audit to the measurement performed by the laboratory to ensure the accuracy of measurement results. The ET leader shall provide the ER with one copy of the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), and Appendix B for his reference.
- 4.2.9. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.



- 4.2.10. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 4.2.11. All the collected samples shall be kept in a good condition for 6 months prior to disposal.

5. Monitoring Results

- 5.0.1. The environmental monitoring will be implemented based on the sensitive receivers which would be mostly affected. Overall layout showing the work area, latest status of work commencement and monitoring stations are shown in *Figure 2.1* and *Figure 4.1*.
- 5.0.2. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

5.1 Noise Monitoring Results

5.1.1. The noise monitoring results for Contract no. CV/2012/07 are summarized in *Table 5.1* below:

Table 5.1 Summary of Noise Monitoring Results at NM1 and NM2

Date	Time	Location	Leq (dB)
7/23/2013	09:01 – 09:31	NM1	58.6
7/23/2013	08:20 - 08:50	NM2	62.3
7/29/2013	14:30 – 15:00	NM1	65.5
1/29/2013	13:30 – 14:00	NM2	62.8
	65 / 70 /75*		

Note:

- 5.1.2. Day time period noise monitoring was conducted at the Tin Wan House (NM1) and Ning Po No.2 College (NM2) in the reporting month.
- 5.1.3. Noise monitoring results measured in this reporting period are reviewed and summarized. No exceedance was recorded in reporting month. Details of noise monitoring results and graphical presentation can be referred in *Appendix 5.2*.

5.2 Air Monitoring Results

5.2.1. The air monitoring results are summarized in *Table 5.2* and *Table 5.3* below. No exceedance was recorded in the reporting month.

Table 5.2 Summary of Air Monitoring Results at AQM1 - 24 hr TSP Monitoring

^{- 70}dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.

Date	Time	TSP Level, (μg/m³)	
22-Jul-13	8:00	49	
27-Jul-13	8:00	42	
Actio	n Level	200	
Limit	t Level:	260	

Table 5.3 Summary of Air Monitoring Results at AQM1 - 1 hr TSP Monitoring

Date	Time	TSP Level, (μg/m ³)
23-Jul-2013	8:13	151
23-Jul-2013	9:16	125
23-Jul-2013	10:17	136
29-Jul-2013	8:09	78
29-Jul-2013	9:13	91
29-Jul-2013	10:17	71
Actio	n Level	197
Limit	Level:	500

5.2.2. Air monitoring results measured in this reporting period are reviewed and summarized. No exceedance was recorded in reporting month. Details of air monitoring results can be referred in *Appendix 5.3*.

5.3 Waste Monitoring Results

5.3.1. Inert and non-inert C&D waste were disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.4.*

Table 5.4 Details of Waste Disposal for Contract no. CV/2012/07

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	0	0	TKO137, TM38
Inert C&D materials recycled, m ³	0	0	N/A
Non-inert C&D materials disposed, m ³	0	0	SENT Landfill
Non-inert C&D materials recycled, kg	0	0	N/A
Chemical waste disposed, kg	0	0	N/A



6. Compliance Audit

6.0.1. The Event Action Plan for construction noise, air quality and water quality are presented in *Appendix 6.1*.

6.1 Noise Monitoring

6.1.1. No exceedance was recorded in the reporting month.

6.2 Air Monitoring

6.2.1. No exceedance was recorded in the TSP monitoring in the reporting month.

6.3 Review of the Reasons for and the Implications of Non-compliance

6.3.1. There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.

6.4 Summary of action taken in the event of and follow-up on non-compliance

6.4.1. There was no particular action taken since no project-related non-compliance was recorded from the site audits and environmental monitoring in the reporting period.

7. Environmental Site Audit

7.0.1. According to EM&A Manual stipulation, the regular weekly sit inspections on 23, 30 July 2013 were carried out by ET, IEC, the Contractor and ARUP for Contracts no. CV/2012/07 to ensure the environmental performance. Observations and findings are summarized in *Table 7.1* and the inspection checklist in this reporting month is attached in Appendix

Table 7.1 Summary of Environmental Inspections for Contract no. CV/2012/07

Date	Observations	Follow-Up
23 July 2013	Site surface water runoff get into public road was observed. The mitigation measures for water quality should be implemented properly	contractor was reminded to treat the discharge before discharging
30 July 2013	 The waste water from the site should not be discharged directly to the pedestrian road. The contractor was reminded to treat the discharge before discharging The waste water and natural runoff from slope need to be separated by modifying the discharge method Different types of waste need to be segregated before dumping Drip tray need to be provided to the generator 	The follow-up action will be taken in next site audit.

8. Complaints, Notification of Summons and Prosecution

- 8.0.1. No complaint and notification of summons or successful prosecutions were recorded in this reporting month.
- 8.0.2. The details of cumulative complaint log and updated summary of complaints are presented in *Appendix 8.1*.
- 8.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 8.1* and *Table 8.2* respectively.

Table 8.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
July 2013	0
Project-to-Date	0

Table 8.2 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date		
Air	-	0	0		
Noise	-	0	0		
Waste	-	0	0		
Total	-	0	0		

am

Lam Environmental Services Limited

9. Conclusion

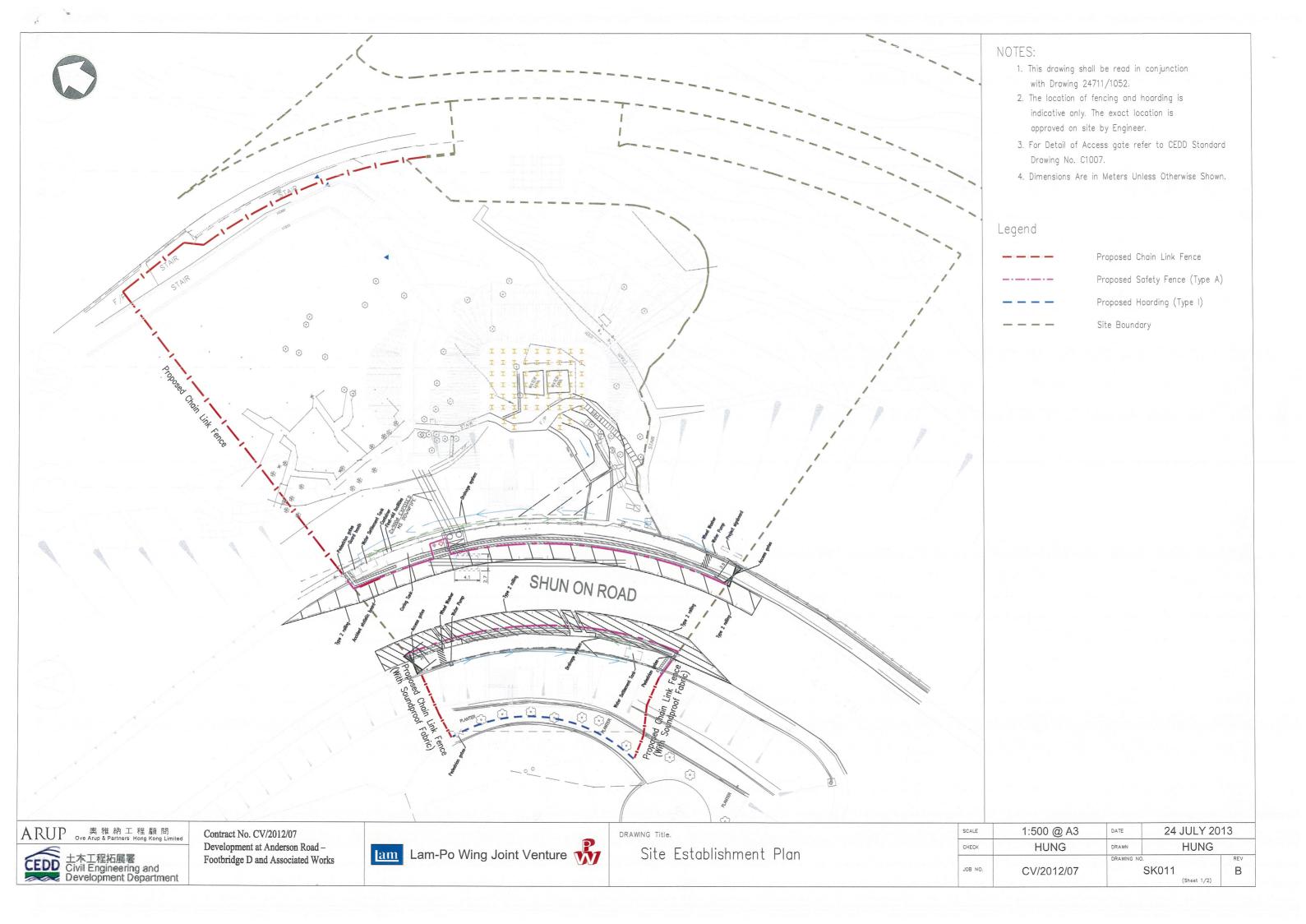
- 9.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 9.0.2. No construction air and noise monitoring results that triggered the Limit Level was recorded. No complaint of air and noise were received by the ARUP and the contractor. Furthermore, no notification of summons or successful prosecution was received in this reporting month.
- 9.0.3. The scheduled construction activities and the recommended mitigation measures for the coming month are list in *Table 9.1* . The construction programmes of contract are provide in *Appendix 9.1*

Table 9.1 Summary of Key Construction Activities to be commenced in Coming Reporting Month

Wolldi	
Key Construction Works	Recommended Mitigation measures
Slope excavation	Watering of any dust generating activities
	Noise mitigation measures should be fully implemented as accordance with the EM&A requirement

Figure 2.1

Project Layout



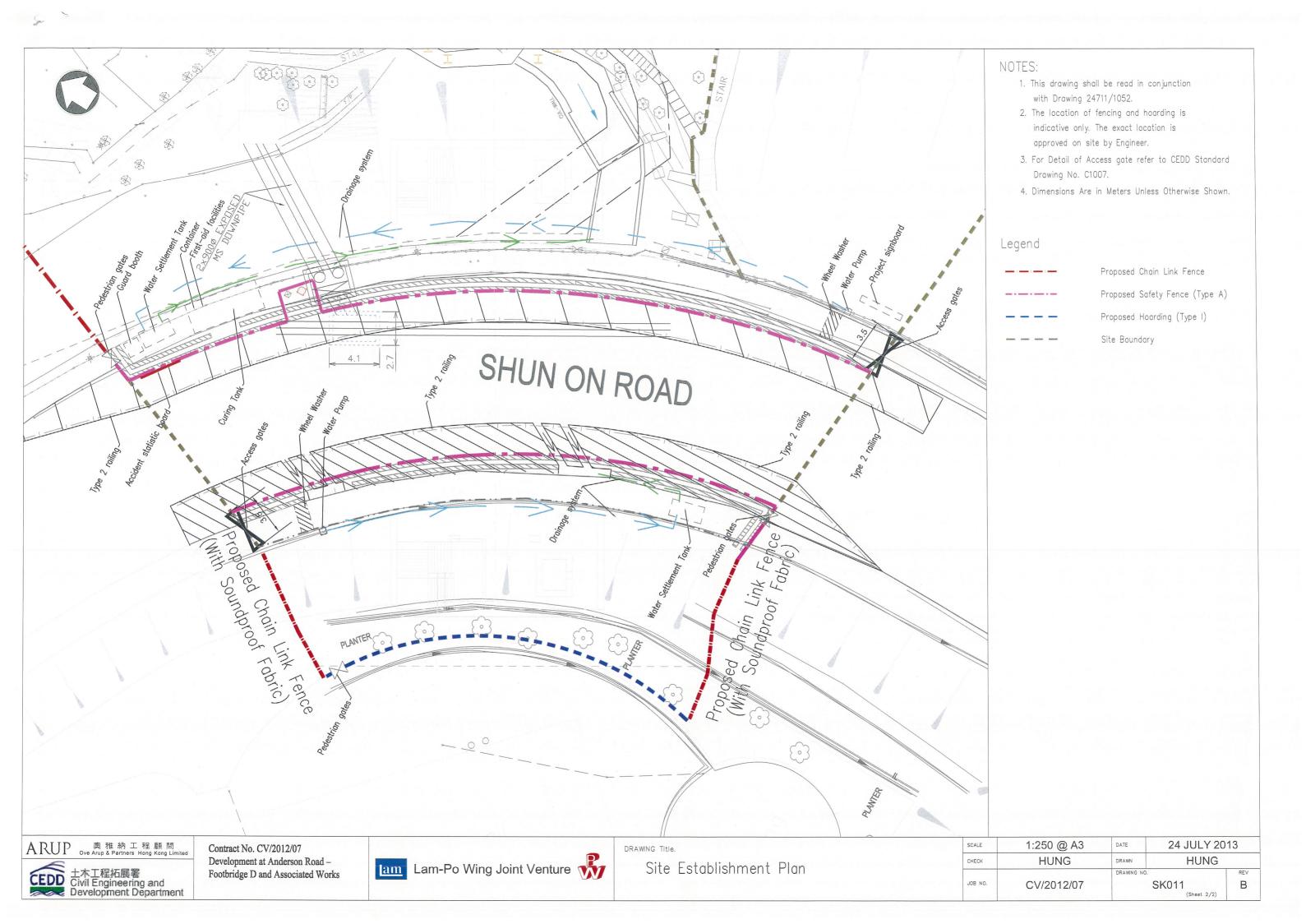


Figure 2.2

Project Organization Chart



Project Organization Chart

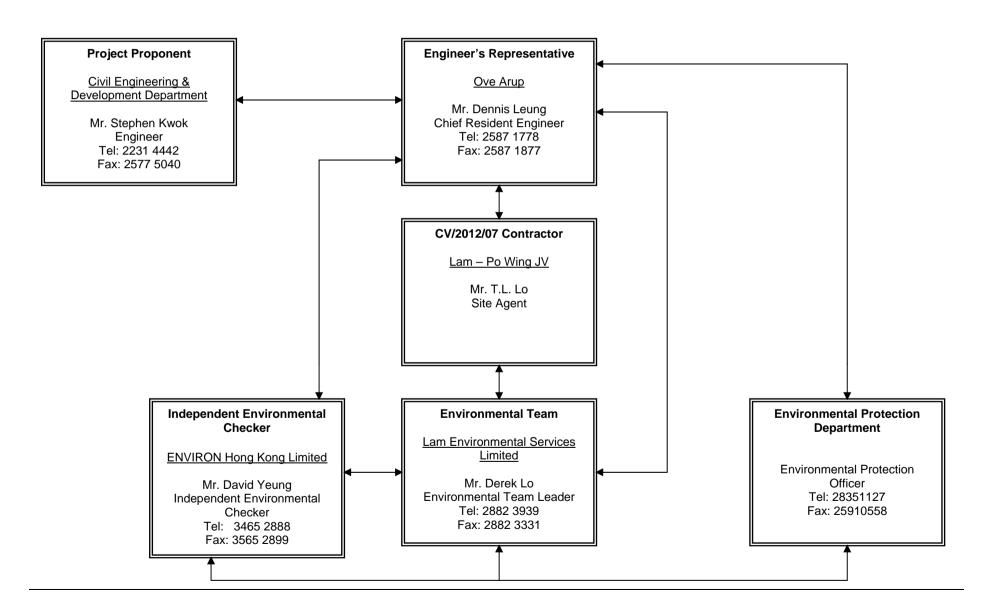
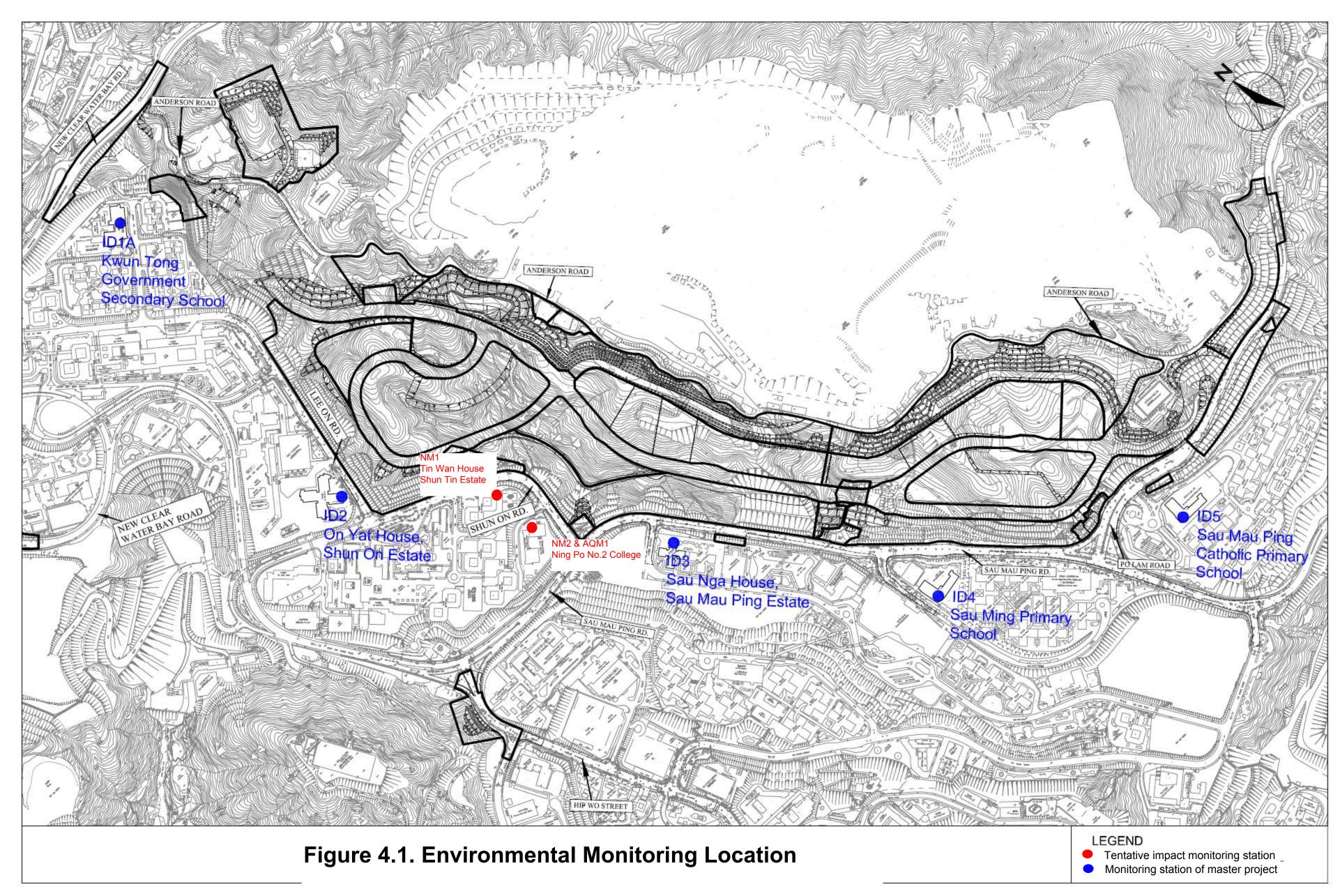


Figure 4.1

Locations of Environmental Monitoring Stations



Appendix 3.1

Environmental Mitigation Implementation Schedule



Environmental Mitigation Implementation Schedule

Implementation Schedule for Construction Dust Control

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location (duration/ completion of	Funding Agent	Implementation Agent	Implementation Stages**		Relevant Legislation & Guidelines		
			measures)			D	С			
\$2.7	S1, S2.8	Site Practice • Mean vehicle speed of haulage trucks at 10 km/hr. • Twice daily watering of all open site areas. • Regular watering (once every 1 hour) of all site roads and access roads with frequent truck movement. • Tarpaulin covering of all dusty vehicle loads transported to, form and between site locations.	All Construction sites (late 2007 to 2016)	CEDD	Lam – Po Wing JV	J	J	TM on EIA Process, APCO, Air Pollution Control (Construction Dust) Regulation		
		Establishment and use of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary. Suitable side and tailboards on haulage vehicles. Watering of temporary stockpiles.								
		Blasting Use of select aggregate and fines to stem the charge with drill holes and watering of blast face. Use of vaccum extraction drilling methods. Carefully sequenced blasting.								
		Crushing • Fabric filters installed for the crushing plant. • Water sprays on the crusher.								
		Loading and Unloading Points, and conyeyor Belt System Water sprays at all fixed loading and unloading points (at the crusher and conveyor belts). The loading point at the crusher is enclosed with dust curtains are used for controlling dust.								
		When transferring materials from conveyor belt or crusher to the dump trucks, chutes or dust curtains are used for controlling dust. Cover the conveyor belts with steel roof and canvas sides.								

^{*} All recommendations and requirements are summarized from approved EIA resulted during the course of EIA Process, including ACE and/or accepted public comment to the proposed project,

^{**} D=Design, C=Construction

Implementation Schedule for Construction Noise Control

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	completion of	Funding Agent	Implementation Agent	Implementation Stages**		Relevant Legislation & Guidelines
			measures)			D	С	
\$3.7	\$1, \$3.7	Site Formation Silenced powered mechanical equipment (PME) for most equipments (including drill rig, backhoe, dump truck, breaker and crane) and the decrease of percentage on time usage of drill rig among the Central Area form 50% to 40% is prosed. 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 (late 2007 to 2016)	CEDD	Lam – Po Wing JV	J	J	TM on EIA Process, NCO, TM on Noise from Construction Work other than Percussive Pilling, ProPECC Note PN2/93

^{*} All recommendations and requirements are summarized from approved EIA resulted during the course of EIA Process, including ACE and/or accepted public comment to the proposed project,

^{**} D=Design, C=Construction



Implementation Schedule for Water Quality Control

EIA Ref.	EM&A Log Ref.		Location (duration/ completion of	Funding Agent	Implementation Agent	Impleme Stages**		Relevant Legislation & Guidelines
			measures)			D	С	
\$6.4	S1	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 Victor Harbour (Phase I) WCZ. All fuel storage areas should be bounded 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. Discharged wastewater from the construction sites to surface water and /or public drainage systems should be controlled through licensing. Discharges should follow fully the terms and conditions in the licences. Relevant practice for dealing with various typr of construction discharges provided in EPD's ProPECC Note 1/94 should be adopted.	All Construction sites (late 2007 to 2016)	CEDD	Lam – Po Wing JV	J	J	TM on EIA Process, WPCO, ProPECC Note PN 1/94

^{*} All recommendations and requirements are summarized from approved EIA resulted during the course of EIA Process, including ACE and/or accepted public comment to the proposed project,

^{**} D=Design, C=Construction



Implementation Schedule for Construction Waste Management

EIA Ref.	EM&A Log Ref.		Location (duration/ completion of	Funding Agent	Implementation Agent	Impleme Stages**		Relevant Legislation & Guidelines
			measures)			D	С	
\$8.4	S1,S4	Waste Disposal Different types of wastes should be segregated, stored, transported and disposed of proper practice of waste management. 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 wastes. Excavated spoil should be used as much as possible to minimize off-site fill material requirements and disposal of spoil. 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 qatering of the site access roads. Chemical waste should be recycled on-site or removed by licenced companies. It should be handled according to the Code of practice on the 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 (late 2007 to 2016)	CEDD	Lam – Po Wing JV	J	J	TM on EIA Process, WDO, DGO, Waste Disposal (Chemical Waste) (General) Regulation



Contract No. CV/2012/07 Development at Anderson Road – Footbridge D and Associated Works Area

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.			
Dangerous materials as defined under the DGO, including fuel, oil and lubricants, should be stored and properly labeled 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.			
Human waste should be discharged into septic tanks provided by the contractors and removed regularly by a hygiene services company. Refuse 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.			

^{*} All recommendations and requirements are summarized from approved EIA resulted during the course of EIA Process, including ACE and/or accepted public comment to the proposed project,

^{**} D=Design, C=Construction

Appendix 4.1

Action and Limit Level



Action and Limit Level

Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A)/ 70 dB(A)/ 65 db(A) ^{Note 1}

Note 1:

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

Action and Limit Level for Air Monitoring

Monitoring Location	1-hour TSP Level i	n μ g/m ³	24-hour TSP Level in μ g/m ³			
	Action Level Limit Level		Action Level	Limit Level		
AQM1	197	500	200	260		

Appendix 4.2

Copies of Calibration Certificates



Location

: Ning Po No.2 College

Calibration Data for High Volume Sampler (TSP Sampler)

Calbration Date

2-Jul-13

ID :		AQM1				Calbra	ation Due Dat	::	2-Sep-13				
CALIBRATION OF CON	TINUOUS	FLOW RE	CORDER										
	Ambient Condition												
Temperature, T _a	304 Kelvin Pressure, P _a 1010 mmHg								IO mmHg				
	Orifice Transfer Standard Information												
Equipment No.		EL086		Slope, m _c	2.011	45	Intercept, b	С	-0.02803				
Last Calibration Date		19-Jul-12	2		(HxI	P _a / 10	13.3 x 298	/ T	a) 1/2				
Next Calibration Date		19-Jul-13	3		=	m_c	$Q_{std} + b_c$:					
			C	alibration	of RSP								
Calibration	Mar	nometer Re	eading	d	Q _{std}	Contin	uous Flow		IC				
Point	Н (inches of v	vater)	(m ³	(m ³ / min.)		(m ³ / min.)		m ³ / min.) Recorder		order, W	(W((P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	-axis	(CFM)		Y-axis				
1	6.1	6.1	12.2	1.	7304		59		58.3197				
2	4.7	4.7	9.4	1.	5206		47		46.4580				
3	4.0	4.0	8.0	1.4	4039		40		39.5388				
4	2.4	2.4	4.8	1.	0906		25		24.7117				
5	1.5	1.5	3.0	0.	8651		14		13.8386				
By Linear Regression of	Y on X												
	Slope, m	=	50.9	622	Int	ercept, b	=	30.8	045				
Correlation C		=	0.99	989									
Calibration	Accepted	=	Yes/ I	\\ 0 **									
* if Correlation Coefficien	it < 0.990,	check and	recalibration	again.									
** Delete as appropriate.													
Remarks :													
		Henry				Check	ked by	:	Derek Lo				
Calibrated by	·	2-Jul-13				Date	,	:	2-Jul-13				
Date								-					



TISCH ENVIROMENTAL, INC. 145 SOUTH MIAMI AVE. VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ju	l 19, 2012	Rootsmeter	- 1	438320	Ta (K) -	298
Operator	Tisch	Orifice I.I		0005	Pa (mm) -	751.84
PLATE OR Run # 1 2 3 4 5	VOLUME START (m3) NA NA NA NA NA NA NA	VOLUME STOP (m3) NA NA NA NA NA NA NA	DIFF VOLUME (m3) 1.00 1.00 1.00 1.00	DIFF TIME (min) 1.3840 0.9760 0.8730 0.8340 0.6890	METER DIFF Hg (mm) 3.2 6.4 7.9 8.8 12.7	ORFICE DIFF H2O (in.) 2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9850 0.9809 0.9788 0.9777 0.9725	0.7117 1.0050 1.1212 1.1723 1.4115	1.4066 1.9892 2.2240 2.3326 2.8132		0.9957 0.9915 0.9894 0.9883 0.9831	0.7194 1.0159 1.1333 1.1850 1.4268	0.8903 1.2591 1.4078 1.4765 1.7807
Qstd slop intercept coeffici	t (b) =	2.01145 -0.02803 0.99995		Qa slop intercep coeffici	t (b) =	1.25953 -0.01774 0.99995
 v axis =	SORT [H20 (Pa/760)(298/	Ta)]	y axis =	SQRT[H20(Γa/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 = $1/m\{[SQRT H2O(Ta/Pa)] - b\}$



Certificate No. 31707 Page

1 of 2 Pages

Customer: Lam Geotechnics Limited

Address: 11/F, Centre Point, 181-185 Gloucester Road, Wanchai, Hong Kong.

Order No.: Q30699

Date of receipt

13-Mar-13

Item Tested

Description: Sound Level Calibrator

Manufacturer: Cesva

Model

: CB-5

Serial No.

: 0035092

Test Conditions

Date of Test: 20-Mar-13

Supply Voltage

Ambient Temperature:

 $(23 \pm 3)^{\circ}C$

Relative Humidity: (50 ± 25) %

Test Specifications

Calibration check.

Calibration procedure:

F21, Z02.

Test Results

All results were within the IEC 942 Class1 specification.

The results are shown in the attached page(s).

Test equipment used:

Equipment N	lo. Description	Cert. No.	Traceable to
S014	Spectrum Analyzer	30259	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	30620	NIM-PRC & SCI -HKSAR

S041 Universal Counter 28347 SCL-HKSAR

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

The test equipment used for calibration are traceable to International System of Units (SI). The test results apply to the above Unit-Under-Test only

Calibrated by:

Liam Wong

20-Mar-13

Date:

Dorothy Cheuk

This Certificate is issued by:

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

Tel: 2425 8801 Fax: 2425 8646



Certificate No. 31707

Page 2 of 2 Pages

Results:

1. Level Accuracy

UUT Nominal Value (dB)	Measured Value (dB)	IEC 942 Class 1 Spec.
94	93.94	± 0.3 dB

Uncertainty: ± 0.2 dB

2. Frequency

UUT Nominal Value	Measured Value	IEC 942 Class 1 Spec.
1 kHz	1.001 kHz	± 2 %

Uncertainty: $\pm 3.6 \times 10^{-6}$

3. Level Stability: 0.0 dB

IEC 942 Class 1 Spec. : ± 0.1 dB

Uncertainty: ± 0.01 dB

4. Total Harmonic Distortion : < 0.3 %

IEC 942 Class 1 Spec. : < 3 %Uncertainty : $\pm 2.3 \%$ of reading

Remark: 1. UUT: Unit-Under-Test

- 2. The above measured values are the mean of 3 measurements.
- 3. The uncertainty claimed is for a confidence probability of not less than 95%.
- 4. Atmospheric Pressure: 1003 hPa.

----- END -----



31706 Certificate No.

1 3 Pages Page of

: T217501

Serial No.

13-Mar-13

Customer: Lam Geotechnics Limited

Address: 11/F, Centre Point, 181-185 Gloucester Road, Wanchai, Hong Kong.

Order No.: Q30699 Date of receipt

Item Tested

Description: Sound Level Meter

Manufacturer: Cesva

Model : SC-20e

Test Conditions

Date of Test: 20-Mar-13 Supply Voltage

Ambient Temperature : $(23 \pm 3)^{\circ}C$ Relative Humidity: (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

All results were within the IEC 651 Type1 and IEC 804 Type1 specification.

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No. Description Cert. No. Traceable to

S017 Multi-Function Generator C127181 SCL-HKSAR

Sound Level Calibrator S024 30620 NIM-PRC & SCL-HKSAR

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

The test equipment used for calibration are traceable to International System of Units (SI). The test results apply to the above Unit-Under-Test only

Calibrated by

20-Mar-13

Date:

This Certificate is issued by: Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

Tel: 2425 8801 Fax: 2425 8646

The copyright of this certificate is owned by Hong Kong Calibration Ltd.. It may not be reproduced except in full.



Certificate No. 31706

Page 2 of 3 Pages

Results:

1. SPL Accuracy

(z	UUT Setting		Applied Value	
Level Range (dB)	Freq. Weight	Time Weighting	(dB)	UUT Reading (dB)
0 ~ 137	L_{A}	L_{F}	94.0	94.1
		L_{S}		94.1
	$L_{\rm C}$	L_{F}		94.1
		Ls		94.1
	L_A	L_F	114.0	114.1
		L_{S}		114.1
	L_{C}	L_F		114.1
		L_{S}		114.1

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty: ± 0.1 dB

2. Level Stability: 0.0 dB

IEC 651 Type 1 Spec. : \pm 0.3 dB

Uncertainty: ± 0.1 dB

3. Differential level linearity

UUT Range	Applied	UUT Reading		
(dB)	Value (dB)	(dB)	Variation (dB)	IEC 651 Type 1 Spec.
0~137	84.0	84.1	0.0	± 0.4 dB
	94.0	94.1 (Ref.)		
	95.0	95.1	0.0	± 0.2 dB

Uncertainty: ± 0.1 dB



Certificate No. 31706

Page 3 of 3 Pages

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.		
31.5 Hz	-39.7	$-39.4 \text{ dB}, \pm 1.5 \text{ dB}$		
63 Hz	-26.3	$-26.2 \text{ dB}, \pm 1.5 \text{ dB}$		
125 Hz	-16.2	- 16.1 dB, ± 1 dB		
250 Hz	-8.7	- 8.6 dB, ± 1 dB		
500 Hz	-3.3	- 3.2 dB, ± 1 dB		
1 kHz	0.0 (Ref.)	$0 \text{ dB}, \pm 1 \text{ dB}$		
2 kHz	+1.3	+ 1.2 dB, ± 1 dB		
4 kHz	+1.0	+ 1.0 dB ,± 1 dB		
8 kHz	-1.3	- 1.1 dB , $+ 1.5 \text{ dB} \sim - 3 \text{ dB}$		
16 kHz	-12.1	- 6.6 dB, + 3 dB ~-∞		

Uncertainty: ± 0.1 dB

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	50.0		:==
1/10	50.0	50.1	± 0.5 dB
$1/10^2$	50.0	50.1	
$1/10^3$	50.0	50.1	± 1.0 dB
$1/10^4$	50.0	50.2	

Uncertainty: ± 0.1 dB

Remark: 1. UUT: Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric Pressure: 1003 hPa.

----- END -----

Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month



Contract No. CV/2012/07 Development at Anderson Road - Footbridge D and Associated Works Area Environmental Monitoring Schedule July 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30-Jun	1-Jul	2-Jul	3-Jul	4-Jul	5-Jul	6-Jul
7-Jul	8-Jul	9-Jul	10-Jul	11-Jul	12-Jul	13-Jul
14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul	20-Jul
21-Jul	24 hr TSP	23-Jul 1hr TSP x 3 Noise	24-Jul	25-Jul		27-Jul 24 hr TSP
28-Jul	29-Jul 1hr TSP x 3 Noise	30-Jul	31-Jul			3-Aug 1hr TSP x 3

Noise Monitoring Station NM1: Tin Wan House NM2: Ning Po No. 2 College Air Monitoring Station AQM1: Ning Po No.2 College



Contract No. CV/2012/07 Development at Anderson Road - Footbridge D and Associated Works Area Environmental Monitoring Schedule August 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28-Jul	29-Jul	30-Jul	31-Ju		2-Aug 24 hr TSP	3-Aug 1hr TSP x 3
4-Aug	5-Aug	6-Aug	7-Aug	24 hr TSP	9-Aug 1hr TSP x 3 Noise	10-Aug
11-Aug	12-Aug		24 hr TSP	15-Aug 1hr TSP x 3 Noise	16-Aug	17-Aug
18-Aug	1	24 hr TSP	21-Aug 1hr TSP x 3 Noise	22-Aug	23-Aug	24-Aug
25-Aug	24 hr TSP	27-Aug 1hr TSP x 3 Noise	28-Aug	29-Aug		31-Aug 24 hr TSP

Noise Monitoring Station NM1: Tin Wan House NM2: Ning Po No. 2 College Air Monitoring Station AQM1: Ning Po No.2 College

Appendix 5.2

Noise Monitoring Results and Graphical Presentations



Contract No. CV/2012/07 Development at Anderson Road -Footbridge D and Associated Works Area

JOB NO: CS_J2013-02_CV201207

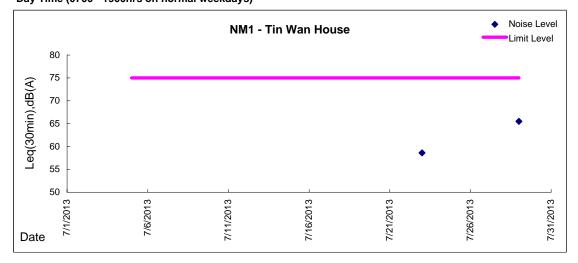
CLIENT: LPWJV

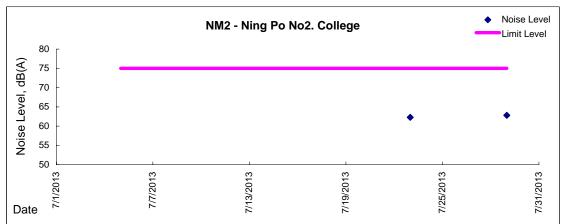
Report on noise monitoring

Daytime(07:00-19:00)							
Date	Time	Location	Leq (dB)	L10 (dB)	L90 (dB)		
7/23/2013	09:01 – 09:31	NM1	58.6	61.9	52.3		
	08:20 - 08:50	NM2	62.3	70.3	52.0		
7/29/2013	14:30 – 15:00	NM1	65.5	68.7	60.3		
	13:30 - 14:00	NM2	62.8	66.1	53.9		



Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Location: AQM1-Ning Po No.2 College

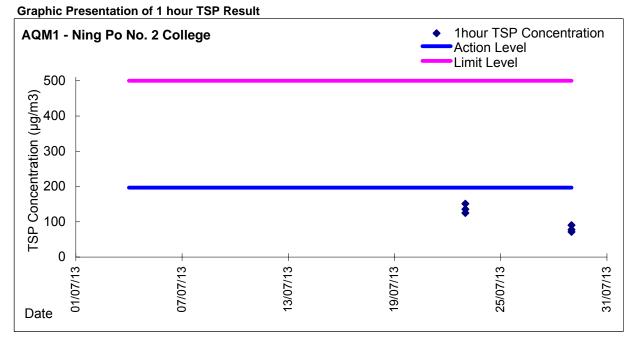
Report on 24-hour TSP monitoring Action Level (μ g/m3) - 200 Limit Level (μ g/m3) - 260

Date	Sampling	Weather	Filter	Filter Weight,	g	Sampling	Flow Rate, m ³ /min			Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
22-Jul-13	8:00	Rainy	006846	2.6447	2.7407	24.00	1.35	1.35	1.35	1949	49
27-Jul-13	8:00	Rainy	006611	2.6197	2.7013	24.00	1.37	1.35	1.36	1963	42

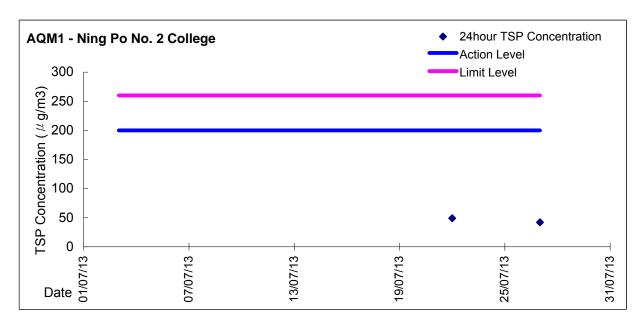
Report on 1-hour TSP monitoring Action Level (μ g/m3) - 197 Limit Level (μ g/m3) - 500

Date	Sampling	Weather	Filter	Filter Weight, g		Sampling	Flow Rate, m ³ /min			Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q_{sf}	Average	Volume, m ³	μg/m³
23-Jul-13	8:13	Rainy	006609	2.6199	2.6322	1.00	1.35	1.35	1.35	81	151
23-Jul-13	9:16	Rainy	006610	2.6134	2.6237	1.00	1.37	1.37	1.37	82	125
23-Jul-13	10:17	Rainy	006522	2.6501	2.6612	1.00	1.37	1.35	1.36	82	136
29-Jul-13	8:09	Fine	007376	2.6397	2.6461	1.00	1.37	1.37	1.37	82	78
29-Jul-13	9:13	Fine	006839	2.6183	2.6257	1.00	1.37	1.35	1.36	82	91
29-Jul-13	10:17	Fine	006522	2.6257	2.6315	1.00	1.35	1.35	1.35	81	71





Graphic Presentation of 24 hour TSP Result



Appendix 6.1

Event Action Plans

Event/Action Plan for Construction Noise

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

Event / Action Plan for Construction Air Quality

EVENT			ACT	TON					
		ET		IC(E)	ER			CONTRACTOR	
ACTION LEVEL									
Exceedance for one sample	2. 3.	Identify source; Inform IC(E) and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily.	1. 2.	Check monitoring data submitted by ET; Check Contractor's working method.	1.	Notify Contractor.	1. 2.	Rectify any unacceptable practice; Amend working methods if appropriate.	
Exceedance for two or more consecutive samples	2. 3. 4. 5.	Identify source; Inform IC(E) and ER; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IC(E) and Contractor for remedial actions required; If exceedance continues, arrange meeting with IC(E) and ER; If exceedance stops, cease additional monitoring.	1. 2. 3. 4. 5.	Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures.	1. 2. 3.	Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented.	1. 2. 3.	Submit proposals for remedial actions t IC(E) within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.	
LIMITED LEVEL 1. Exceedance for one sample		Identify source; Inform ER, Contractor and EPD;	1. 2.	Check monitoring data submitted by ET; Check Contractor's working method:	1.	Confirm receipt of notification of failure in writing:	1.	Take immediate action to avoid further exceedance:	
	4. 5.	Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results.	3.4.5.	Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures.	2. 3.	Notify Contractor; Ensure remedial measures properly implemented.	2. 3. 4.	Submit proposals for remedial actions IEC within 3 working days of notificatio Implement the agreed proposals; Amend proposal if appropriate.	
Exceedance for two or more consecutive samples	2. 3. 4. 5.	Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the	1. 2. 3.	Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures.	1. 2. 3.	Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IC(E), agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented:	1. 2. 3. 4.	Take immediate action to avoid further exceedance; Submit proposals for remedial actions t IC(E) within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control:	
	7.	Arrange meeting with the and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring.			5.	If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	5.	Stop the relevant portion of works as determined by the ER until the exceedance is abated.	

Appendix 6.2

Summary for Notification of Exceedance

Summary for Notification of Exceedance

Ref. No.	Date	Time	Location	Measured TSP Level	Unit	Action Level	Limit Level	Follow-up action		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

Summary for Notification of Exceedance

Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A

Appendix 8.1

Complaint Log

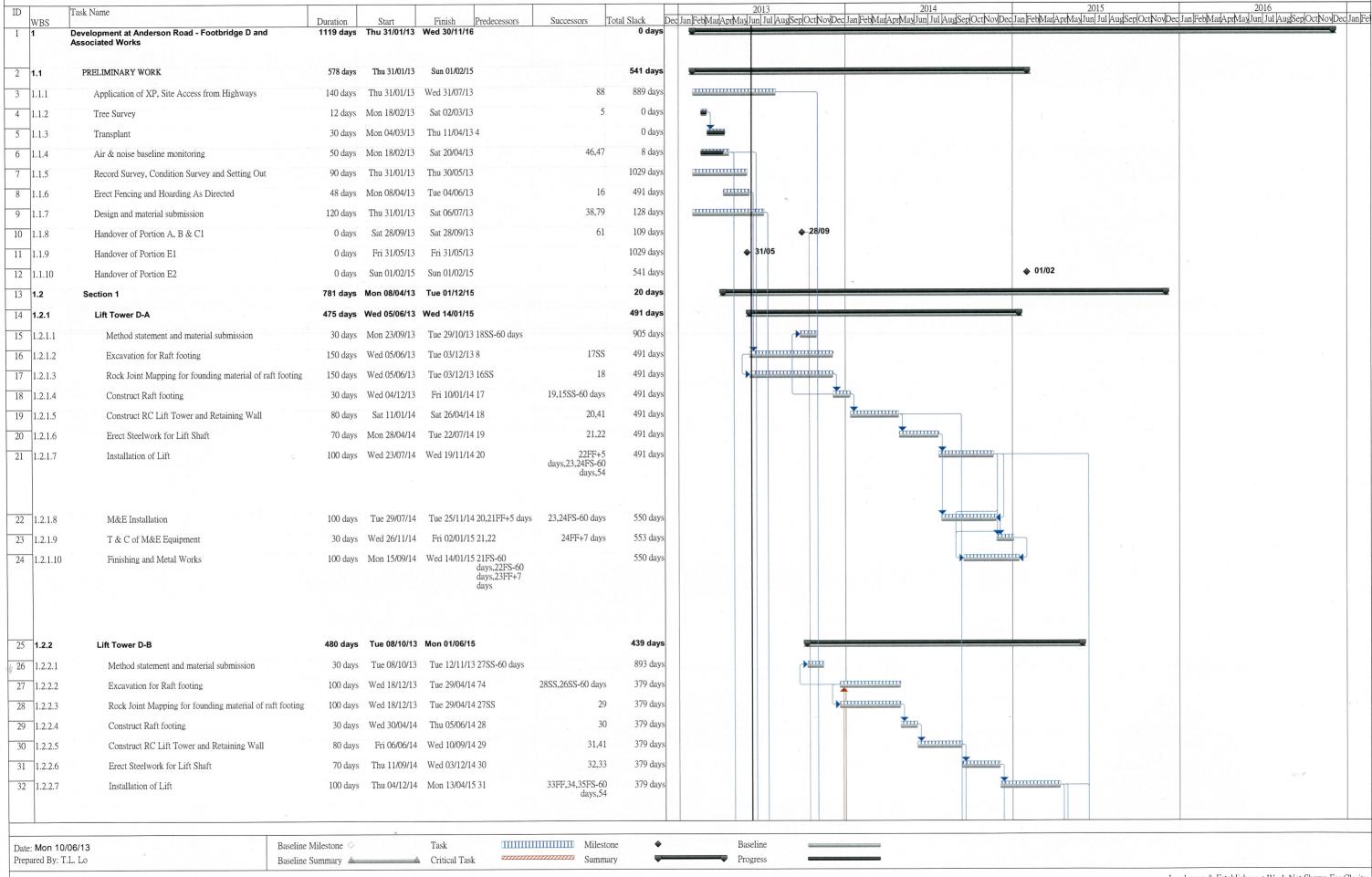
Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
Nil	Nil	Nil	Nil	Nil	Nil	Closed

Appendix 9.1

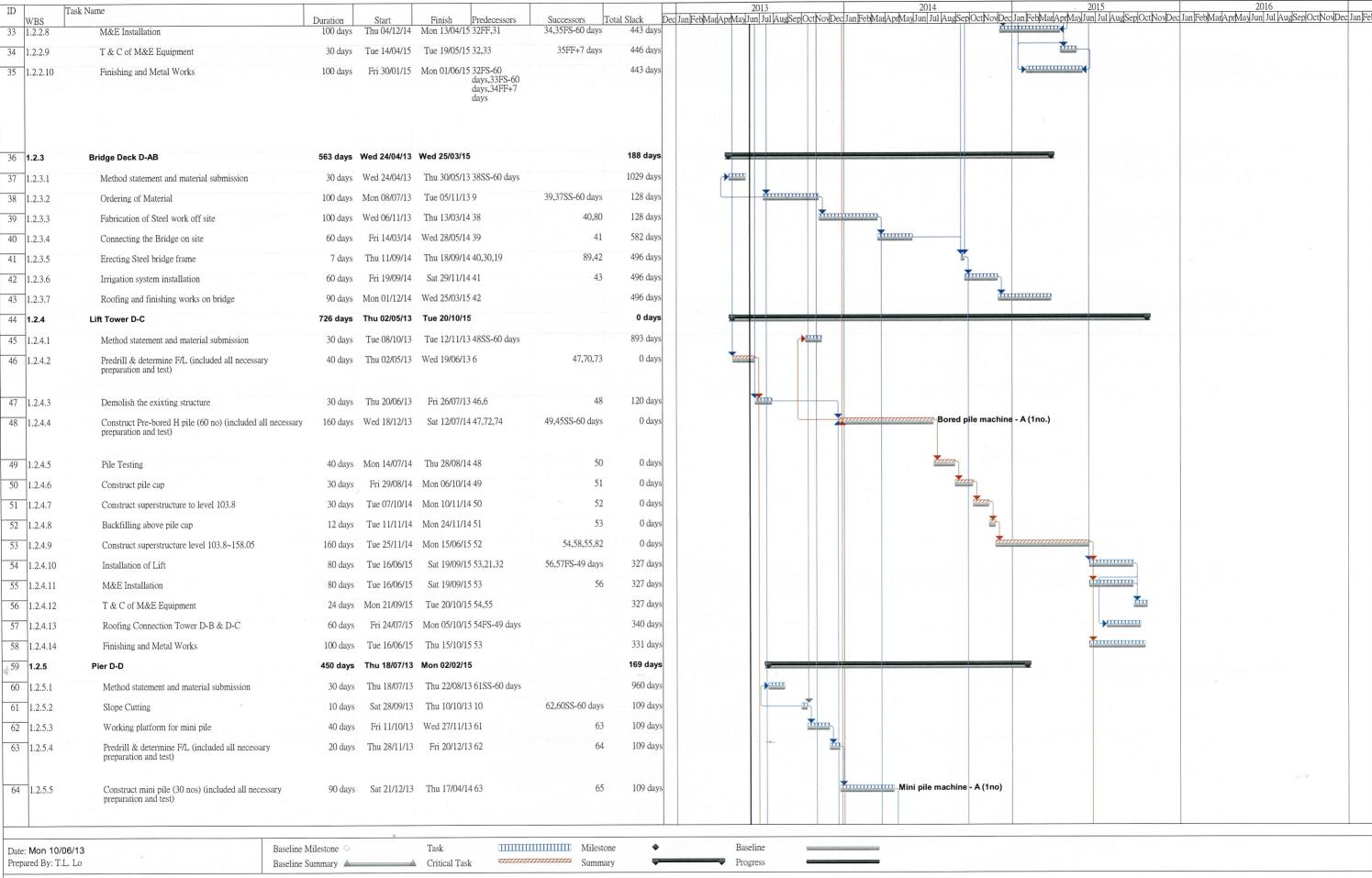
Construction Programme

Master Programme For Contract No. CV/2012/07 Development at Anderson Road - Footbridge D and Associated Works (Rev. 2)



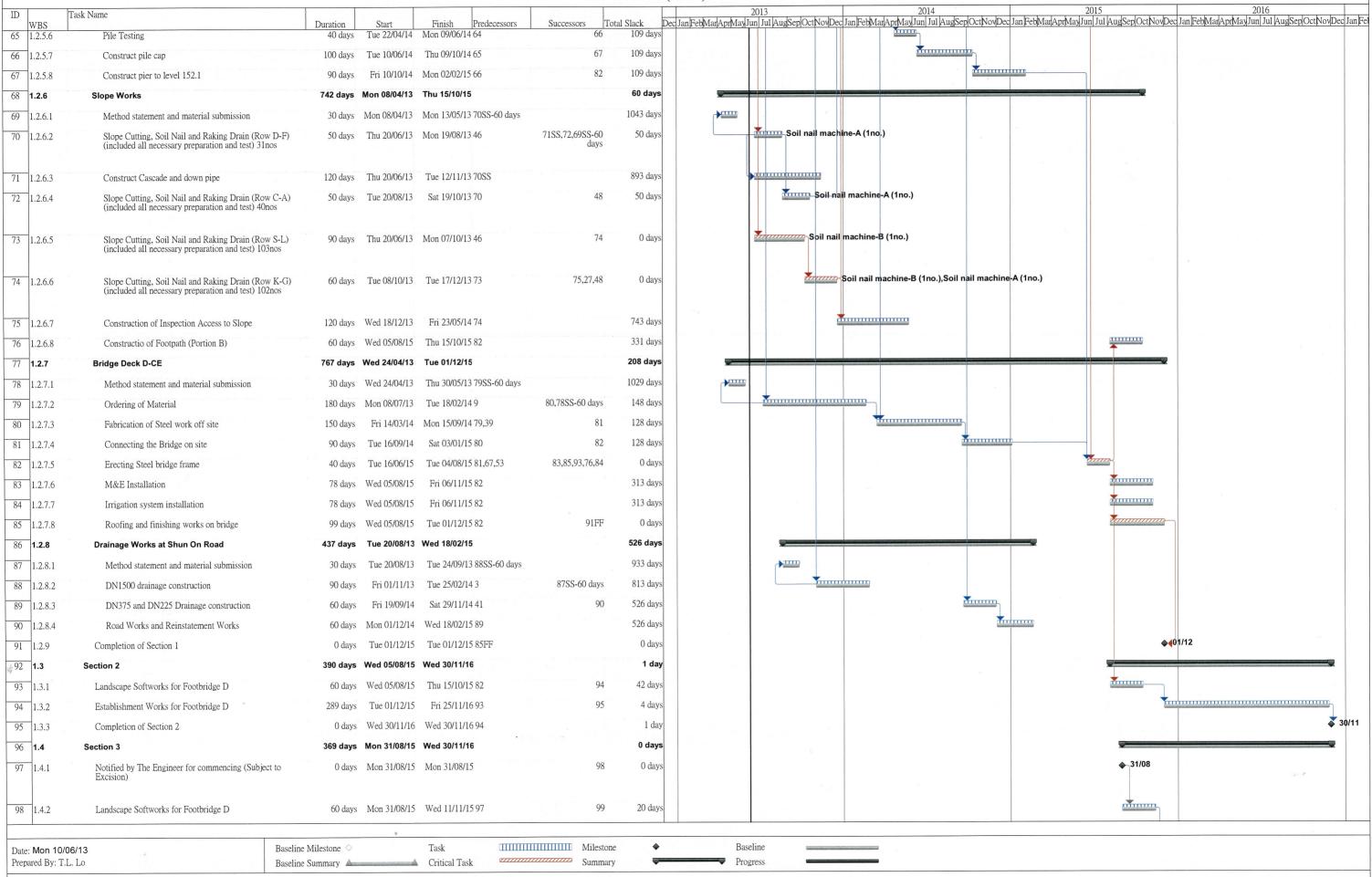
Assume Contract Start On 31-Jan-2013 and Finish On 30-Nov-2016 (1399 days) Duration as shown by week day

Master Programme For Contract No. CV/2012/07 Development at Anderson Road - Footbridge D and Associated Works (Rev. 2)



Assume Contract Start On 31-Jan-2013 and Finish On 30-Nov-2016 (1399 days) Duration as shown by week day

Master Programme For Contract No. CV/2012/07 Development at Anderson Road - Footbridge D and Associated Works (Rev. 2)



Assume Contract Start On 31-Jan-2013 and Finish On 30-Nov-2016 (1399 days) Duration as shown by week day

Master Programme For Contract No. CV/2012/07 Development at Anderson Road - Footbridge D and Associated Works 2013 2014 2015 2016 Dec Jan FebMar ApriMay Jun Jul Aug Sep Oct Nov Dec ID Task Name Total Slack WBS Finish Successors 99 1.4.3 Landscape Softworks and Establishment Works for Footbridge A, B and C 289 days Thu 12/11/15 Mon 07/11/16 98 20 days 30/11 0 days Wed 30/11/16 Wed 30/11/16 99 0 days 100 1.4.4 Completion of Section 3

Date: Mon 10/06/13
Prepared By: T.L. Lo

Baseline Milestone

Task

Milestone

Baseline

Summary

Progress

Progress