

CONTRACT NO: CV/2012/07

DEVELOPMENT AT ANDERSON ROAD -FOOTBRIDGE D AND ASSOCIATED WORKS AREA

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- JULY 2014 -

CLIENTS:

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6 August 2014



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EXECUTIVE SUMMARY

 This is the Environmental Monitoring and Audit (EM&A) Monthly Report – July 2014 of "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 13th month of EM&A report presenting the environmental monitoring findings and information recorded during the period of 1 July 2014 to 31 July 2014. The cut-off date of reporting is at the end of each reporting month.

Construction Activities for the Reported Period

- Drainage diversion
- Slope excavation
- Raft footing excavation

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:
 - Soil nail installation
 - Slope excavation



• Raft footing excavation

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 of 1 July 2014 to 31 July 2014. 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 cumulative statistics on complaints, notification of summons and prosecution
- Section 10 Conclusion



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) are the designated 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 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 slope adjoining Footbridge D.
 - Site formation and associated slope works for Footbridge D adjacent to Shun On Road.



2.3 **Project Organization and Contact Personnel**

- 2.3.1. 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.
- 2.3.2. 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*.

Party	Role	Post	Name	Contact	Contact
				No.	Fax
Ove Arup	Engineer	Chief	Dennis	2407 0300	2407
		Resident	Leung		8382
		Engineer			
		Resident	Kenneth Lee	3656 3000	3656
		Engineer			1000
Lam-Po Wing	Contractor	Project	K.C. Wong	2318 0281	3171
Joint Venture	under	Manager			7222
	Contract no. CV/2012/07	Site Agent	T.L. Lo	2318 0281	
		Safety Officer	K.W. Lau	2318 0281	
		Environment	K.I. Ip	2318 0281	
		al Officer			
ENVIRON	Independent	Independent	Mr. David	3465 2888	3465
Hong Kong	Environment	Environment	Yeung		2899
Limited	al Checker	al Checker			
	(IEC)	(IEC)			
Lam	Environment	Environment	Mr. Derek Lo	2882 3939	2882
Environmenta	al Team (ET)	al Team			3331
I Services		Leader (ETL)			
Limited					

Table 2.1 Contact Details of Key Personnel

8



- 2.3.3. For Contract no. CV/2012/07, the principal work activities in this reporting month included:
 - Drainage diversion
 - Slope excavation
 - Raft footing excavation
- 2.3.4. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:
 - Soil nail installation
 - Slope excavation
 - Raft footing excavation



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 environmentalprotection pertinent to the Project

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Discharge Licence	WT00015447-20 13	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
Application for Registration as a Chemical Waste Producer	WPN5213-292-L 2825-01	28 November 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.
- 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:

Date	Time	Location	Leq (dB)
4 101 14	11:15	NM1	56.3
4-Jul-14	10:10	NM2	64.5
10 101 14	10:20	NM1	71.2
10-Jul-14	9:10	NM2	68.0
16-Jul-14	10:05	NM1	71.8
10-Jul-14	10:40	NM2	69.4
22 101 14	9:55	NM1	70.3
22-Jul-14	9:15	NM2	66.0
29 101 14	10:50	NM1	69.4
28-Jul-14	10:10	NM2	68.7
	65 / 70 /75*		

Table 5.1 Summary of Noise Monitoring Results at NM1 and NM2

Note :

- 70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.
- 5.1.2. Day time period noise monitoring was conducted at the Tin Wan House (NM1) and Ning Po No.2 College (NM2).
- 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 <u>Appendix 5.2</u>.

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

Date	Time	TSP Level, (µg /m ³)
3-Jul-14	8:00	39
9-Jul-14	8:00	45
15-Jul-14	8:00	12
21-Jul-14	8:00	55
26-Jul-14	8:00	21
Actio	n Level	200
Limit	Level:	260

Table 5.3	Summary of Air Monitoring Results at AQM1 - 1 hr TSP Monitoring
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Date	Time	TSP Level, (μg /m³)	
4-Jul-14	8:50	73	
4-Jul-14	9:55	84	
4-Jul-14	11:00	49	
10-Jul-14	8:50	50	
10-Jul-14	9:55	62	
10-Jul-14	11:00	48	
16-Jul-14	8:40	70	
16-Jul-14	9:50	49	
16-Jul-14	10:55	28	
22-Jul-14	8:46	111	
22-Jul-14	9:50	95	
22-Jul-14	11:00	107	
28-Jul-14	8:54	99	
28-Jul-14	9:56	87	
28-Jul-14 11:00		99	
Action 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	1.6176	5.0099	ТКО137
Inert C&D materials recycled, m ³	0	0	N/A
Non-inert C&D materials disposed, m ³	0	0.00816	ТКО137
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 2, 8, 16, 22 and 29 July 2014 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*.

Date	Observations	Follow-Up
2-July-2014	No particulate finding.	N/A
8-July-2014	No particulate finding.	N/A
16-July-2014	The contractor was reminded to take	The finding was rectified
l	necessary prevention for silt water leakage /	during inspection on 22 July
	overflow from sediment tank or run-off from site	2014
	boundary.	
22-July-2014	No particulate finding	N/A
29-July-2014	No particulate finding	N/A

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



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 2014	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		



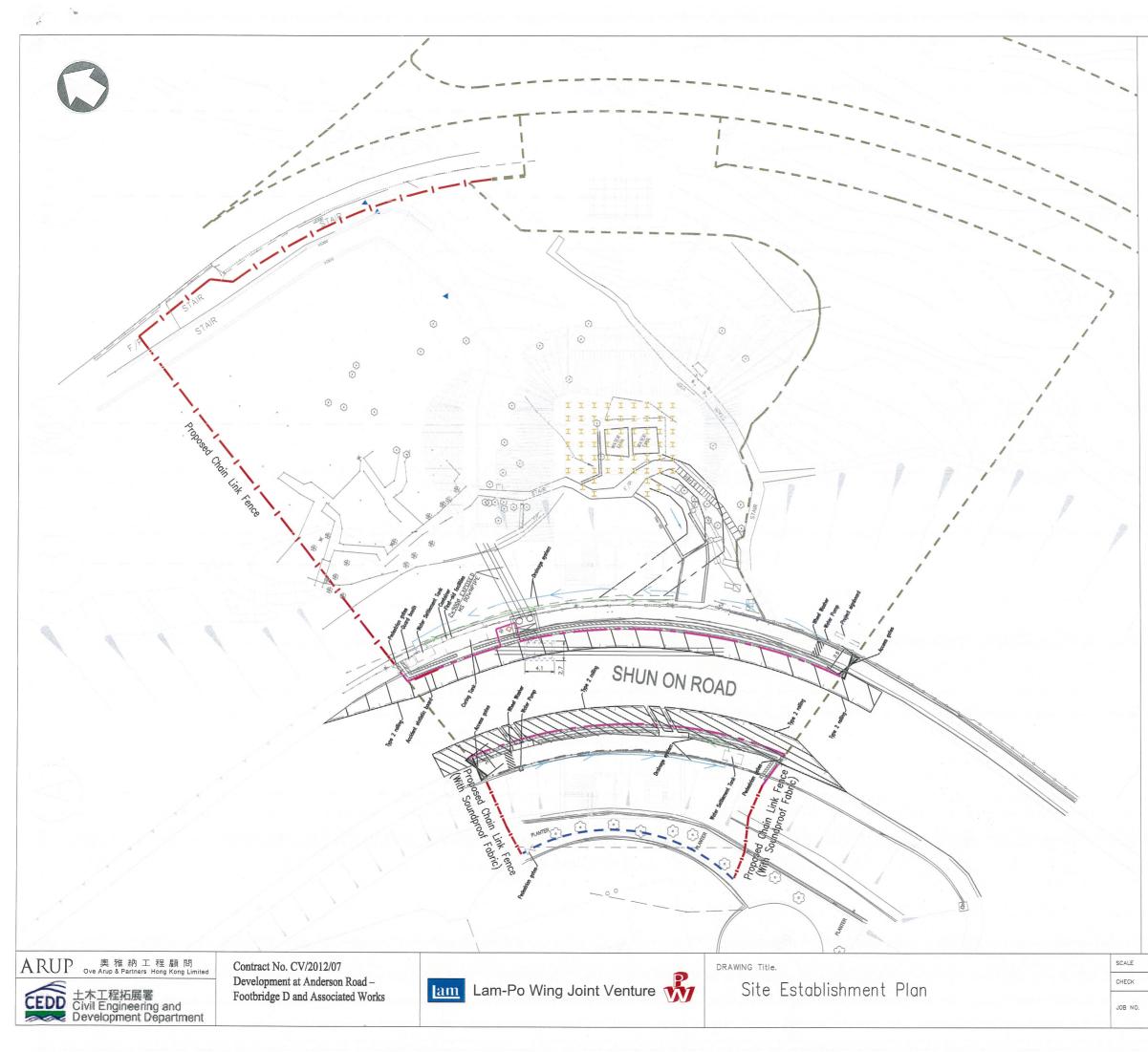
9. Conclusion

- 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. Construction noise should be a key environmental impact during the works. The noise mitigation measures such as use of quiet plants and installation of temporary noise barrier at the construction noise predominate area should be fully implemented as accordance with the EM&A requirement. In addition, during the wet season, muddy water or other water pollutants from site surface runoff into the public area will be key environment issue. Therefore, water mitigation measures to prevent surface runoff should be paid on special attention. Moreover, mosquito control should be performed to prevent mosquito breeding on site.



Figure 2.1

Project Layout



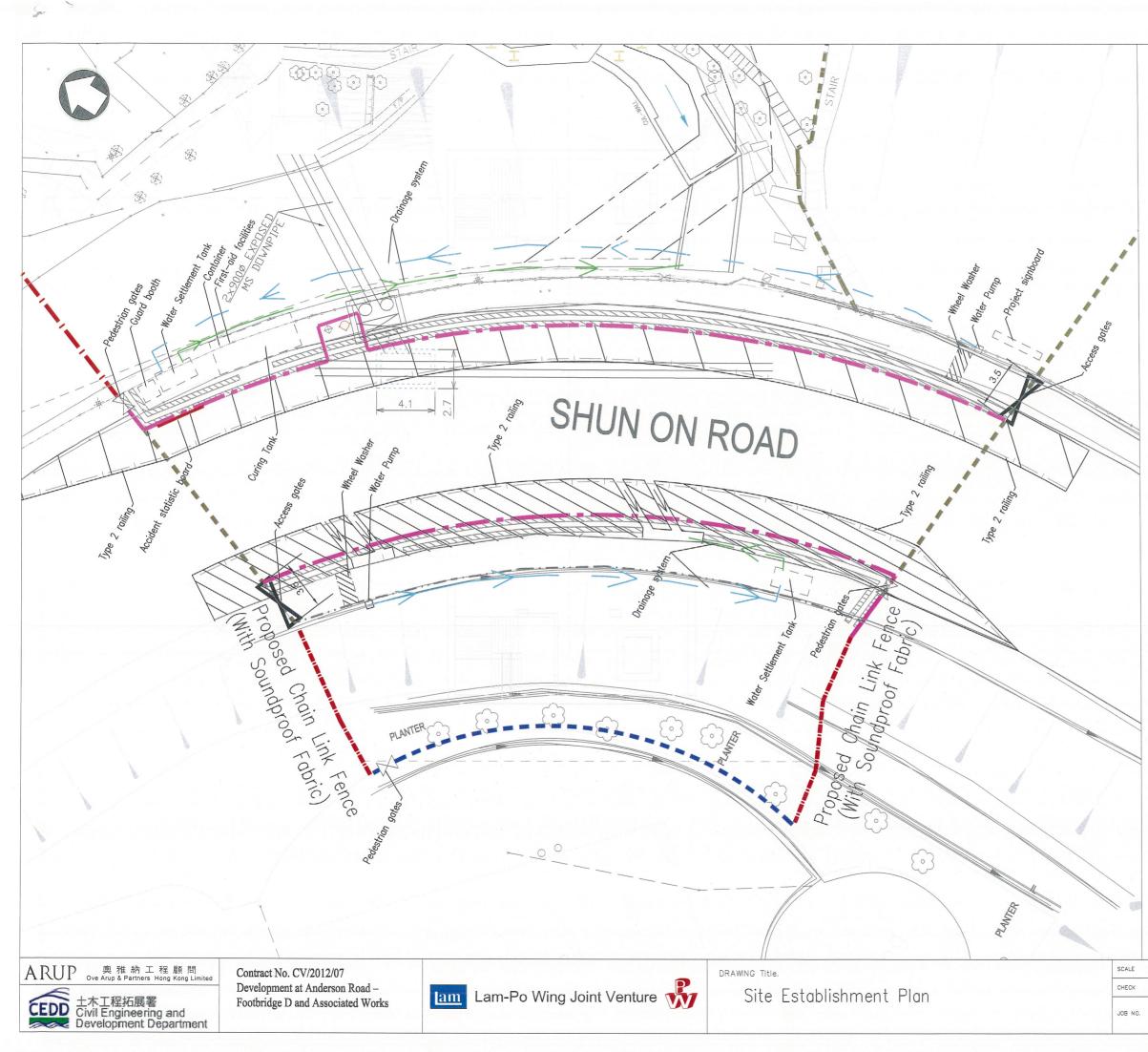
NOTES:

- This drawing shall be read in conjunction with Drawing 24711/1052.
- The location of fencing and hoarding is indicative only. The exact location is approved on site by Engineer.
- For Detail of Access gate refer to CEDD Standard Drawing No. C1007.
- 4. Dimensions Are in Meters Unless Otherwise Shown.

Legend

 Proposed Chain Link Fence
 Proposed Safety Fence (Type A)
 Proposed Hoarding (Type I)
 Site Boundary

1:500 @ A3	DATE	24 JULY 20	13
HUNG	DRAWN	HUNG	
	DRAWNG NO.	· · · · · · · · · · · · · · · · · · ·	REV
CV/2012/07	SK011		В
		(Sheet 1/2)	



NOTES:

- This drawing shall be read in conjunction with Drawing 24711/1052.
- The location of fencing and hoarding is indicative only. The exact location is approved on site by Engineer.
- For Detail of Access gate refer to CEDD Standard Drawing No. C1007.
- 4. Dimensions Are in Meters Unless Otherwise Shown.

Legend

 Proposed Chain Link Fence
 Proposed Safety Fence (Type A)
 Proposed Hoarding (Type I)
 Site Boundary

1:250 @ A3	DATE	DATE 24 JULY 2013			
HUNG	DRAWN	HUNG			
	DRAWING NO.		REV		
CV/2012/07	SK011		В		
		(Sheet 2/2)			

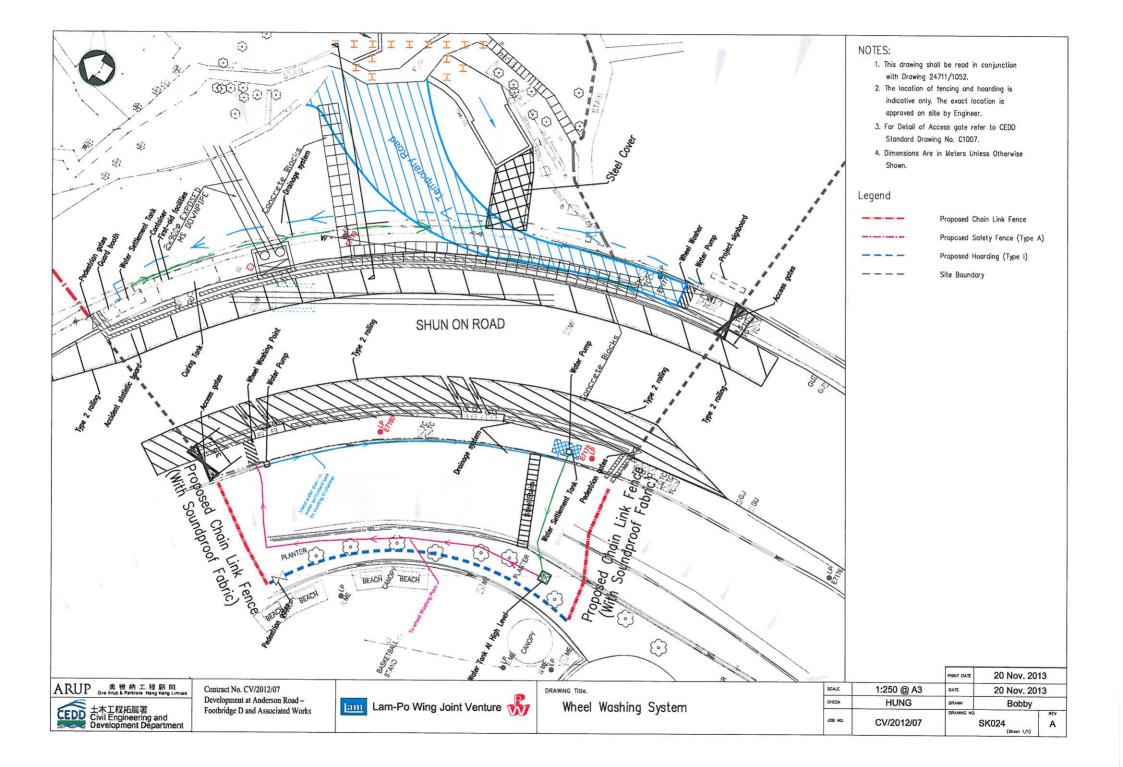




Figure 2.2

Project Organization Chart



Project Organization Chart

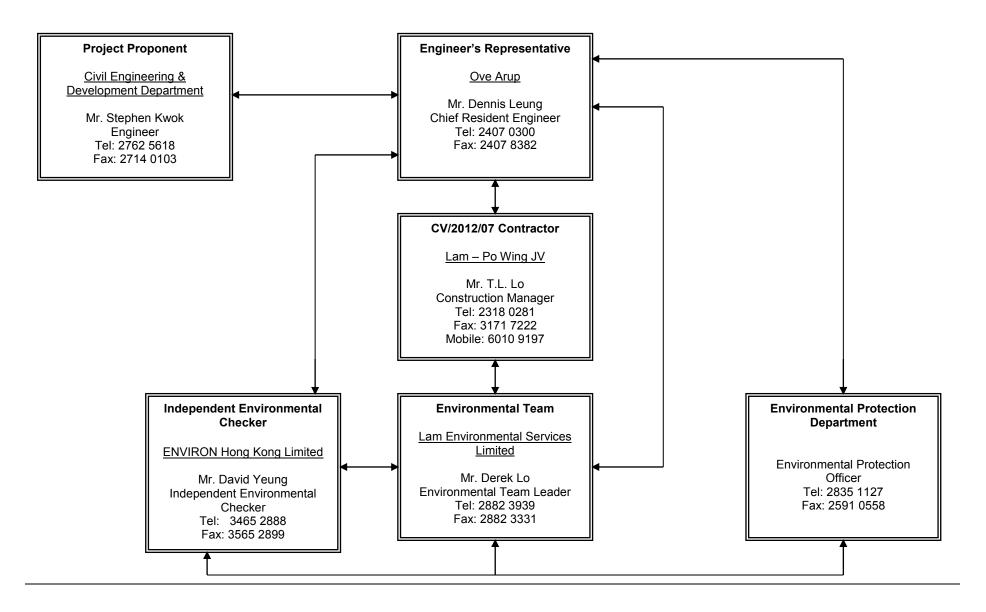
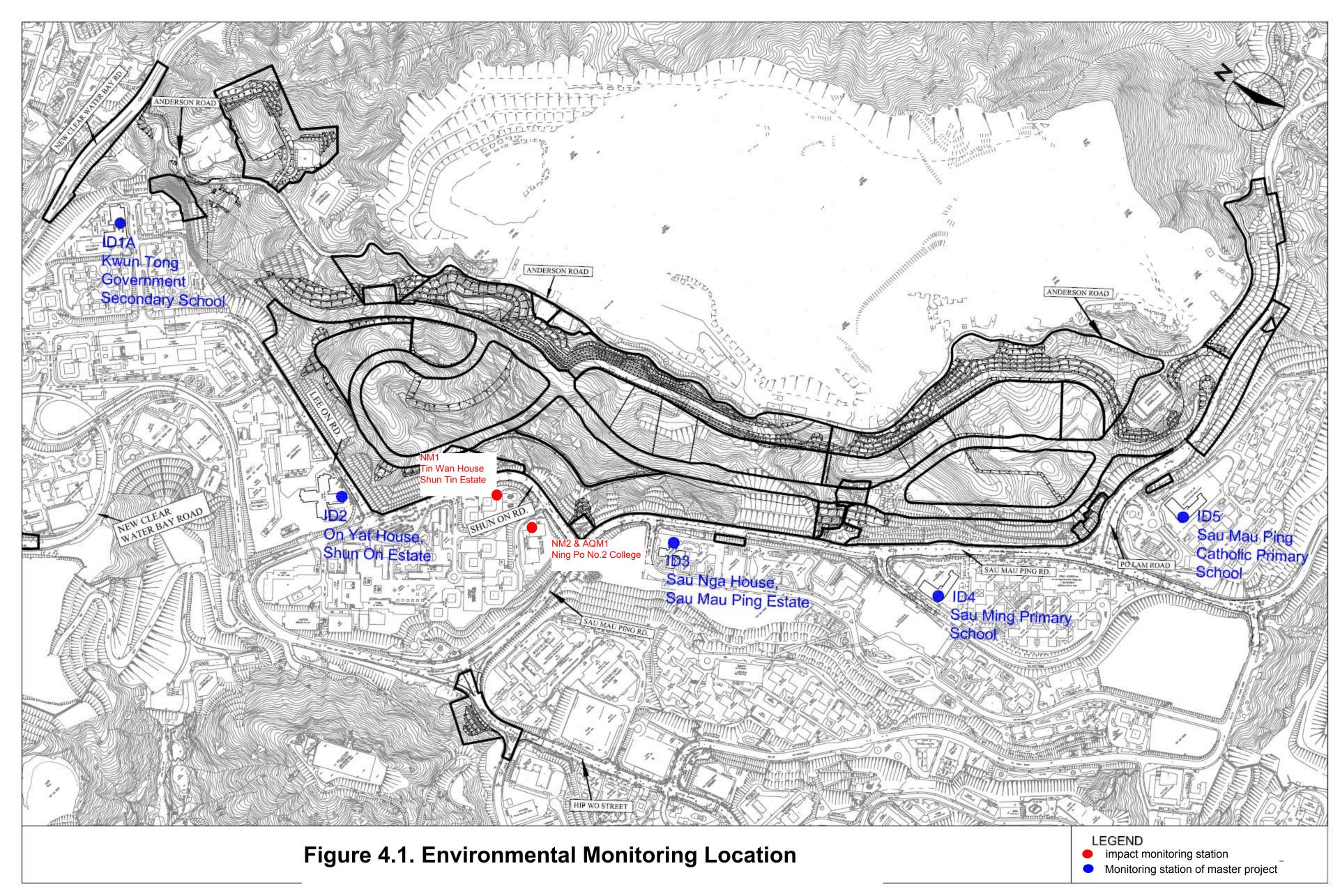




Figure 4.1

Locations of Environmental Monitoring Stations





Appendix 3.1

Environmental Mitigation Implementation Schedule



Environmental Mitigation Implementation Schedule

Implementation Schedule for Construction Dust Control

 M&A og Ref.	Environmental Protection Measures	Location (duration/ completion of	Funding Agent	Implementation Agent	Impleme Stages**		Relevant Legislation & Guidelines
		measures)			D	С	
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. 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.	All Construction sites (late 2007 to 2016)	CEDD	Lam – Po Wing JV			TM on EIA Process, APCO, Air Pollution Control (Construction Dust) Regulation

* 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,



EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location (duration/ completion of	Funding Agent	• •	Funding Agent Implement Agent		•••	Funding Agent	•••		Impleme Stages**		Relevant Legislation & Guidelines															
			measures)			D	С																						
\$3.7	S1, S3.7	 Site Formation Silenced powered mechanical equipment (PME) for most equipment5 (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																					

Implementation Schedule for Construction Noise Control

* 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,



Implementation Schedule for	Water Quality Control
-----------------------------	-----------------------

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location (duration/ completion of	Funding Agent	Implementation Agent	Impleme Stages**		Relevant Legislation & Guidelines
			measures)			D	С	
S6.4	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,



EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location (duration/ completion of	/ Funding Agent	Funding Agent	Funding Agent	letion of	Implementation Agent	Implementation Stages**		Relevant Legislation & Guidelines
			measures)			D	С				
S8.4	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 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			

Implementation Schedule for Construction Waste Management



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 furmes, 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,



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	in 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



Certificate of Calibration 校正證書

Certificate No. : C142113 證書編號

ITEM TESTED / 送檢項	目	(Job No. / 序引編號:IC14-0855)	Date of Receipt / 收件日期:28 March 2014
Description / 儀器名稱 :		Sound Level Meter (EN04)	
Manufacturer / 製造商 :		Cesva	
Model No. / 型號 :		SC-20e	
Serial No. / 編號 :		T217501	
Supplied By / 委託者 :		Honkei Technology Hong Kong Limited	
		Unit 7, 18/F., Treasure Centre, 42 Hung To	Road,
		Kwun Tong, Kowloon	
2001 (2011 - 1980)			
TEST CONDITIONS / 浿	脳	條件	

Temperature / 溫度 : $(23 \pm 2)^{\circ}C$ Line Voltage / 電壓 :

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 4 April 2014 .

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. All results are within manufacturer's specification. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By 測試	: K¢Lee	
	Project Engineer	
Certified By	:	Date of Issue
核證	K M Wu	簽發日期
	Engineer	

1

7 April 2014

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 – 校正及檢測實驗所 c/o 香港新界屯門興安里一號青山灣機樓四樓 Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab(a suncreation.com Website/網址: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C142113 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration using the laboratory acoustic calibrator was performed before the test from 6.1.1.2 to 6.4.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level
- 6.1.1.1 Before Self-calibration

UUT Setting		Applie	UUT	
Time Weighting	Frequency Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
L _F	A	94.00	1	95.0

6.1.1.2 After Self-calibration

UUT	UUT Setting		ng Applied Value		IEC 60651 Type 1
Time Weighting	Frequency Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Spec. (dB)
L _F	A	94.00	1	94.0	± 0.7

6.1.2 Linearity

UUT	Setting Applied Value		1 Value	UUT
Time Weighting	Frequency Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
L _F	A	94.00	1	94.0 (Ref.)
		104.00		104.1
		114.00		114.1

IEC 60651 Type 1 Spec. : \pm 0.4 dB per 10 dB step and \pm 0.7 dB for overall different.

6.2 Time Weighting

6.2.1 Continuous Signal

UUT Setting		Applied Value		UUT	IEC 60651 Type 1
Time Weighting	Frequency Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Spec. (dB)
LE	A	94.00	1	94.0	Ref.
Ls				94.0	± 0.1

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



Certificate of Calibration 校正證書

Certificate No. : C142113 證書編號

6.2.2 Tone Burst Signal (2 kHz)

UUT S	Setting	Appli	ed Value	UUT	IEC 60651 Type 1
Time	Frequency	Level	Burst	Reading	Spec.
Weighting	Weighting	(dB) 106.00	Duration Continuous	(dB) 106.0	(dB) Ref.
L_F L _F Maximum	11	100.00	200 ms	105.0	-1.0 ± 1.0
Ls			Continuous	106.0	Ref.
L _s Maximum			500 ms	102.0	-4.1 ± 1.0

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT	Setting	Appli	ed Value	UUT	IEC 60651 Type 1
Time	Frequency	Level	Freq.	Reading	Spec.
Weighting	Weighting	(dB)		(dB)	(dB)
L _F	A	94.00	31.5 Hz	54.3	-39.4 ± 1.5
			63 Hz	67.7	-26.2 ± 1.5
			125 Hz	77.7	-16.1 ± 1.0
			250 Hz	85.3	-8.6 ± 1.0
			500 Hz	90.7	-3.2 ± 1.0
			1 kHz	94.0	Ref.
			2 kHz	95.3	$+1.2 \pm 1.0$
			4 kHz	95.0	$+1.0 \pm 1.0$
			8 kHz	92.8	-1.1 (+1.5 ; -3.0)
			12.5 kHz	88.0	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

UUT	Setting	Appli	ed Value	UUT	IEC 60651 Type 1
Time	Frequency	Level	Freq.	Reading	Spec.
Weighting	Weighting	(dB)		(dB)	(dB)
L _F	С	94.00	31.5 Hz	90.8	-3.0 ± 1.5
			63 Hz	93.1	-0.8 ± 1.5
			125 Hz	93.8	-0.2 ± 1.0
			250 Hz	94.0	0.0 ± 1.0
			500 Hz	94.0	0.0 ± 1.0
			1 kHz	94.0	Ref.
			2 kHz	93.9	-0.2 ± 1.0
	N 1		4 kHz	93.2	-0.8 ± 1.0
			8 kHz	90.9	-3.0 (+1.5 ; -3.0)
			12.5 kHz	86.0	-6.2 (+3.0 ; -6.0)

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Sun Creation Engineering Limited – Calibration & Testing Laboratory c'o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 – 校正及檢測實驗所 c'o 香港新界屯門興安里一號青山灣機樓四樓 Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com



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Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C142113 證書編號

6.4 Time Averaging

UUT Setting			Applied Value					UUT	IEC 60804
Time Weighting	Frequency Weighting	Integrating Time	Freq. (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)	Reading (dB)	Type 1 Spec. (dB)
LeqT	А	10 sec.	4	1	1/10	110.0	100	100.0	± 0.5
		1	510		1/10 ²]	90	90.0	± 0.5
		60 sec.			1/10 ³		80	80.0	± 1.0
		5 min.			1/104		70	69.9	± 1.0

Remarks : - UUT Microphone Model No. : C-130 & S/N : 12624

- Mfr's Spec. : IEC 60651 Type 1 & IEC 60804 Type 1

- Uncertainties of Applied Value :	104 dB 114 dB	:	250 Hz - 500 Hz 1 kHz 2 kHz - 4 kHz 8 kHz 12.5 kHz 1 kHz	: $\pm 0.35 \text{ dB}$: $\pm 0.30 \text{ dB}$: $\pm 0.20 \text{ dB}$: $\pm 0.35 \text{ dB}$: $\pm 0.45 \text{ dB}$: $\pm 0.70 \text{ dB}$: $\pm 0.10 \text{ dB}$ (Ref. 94 dB) : $\pm 0.10 \text{ dB}$ (Ref. 94 dB) : $\pm 0.2 \text{ dB}$ (Ref. 110 dB continuous sound level)
				continuous sound level)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this 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 environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

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The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.





CERTIFICATE OF CALIBRATION

Certificate No.:	14CA0311 02		Page:	1	of	2
Item tested						
Description:	Acoustical Calibra	tor (Class 1L)				
Manufacturer:	CESVA, SPAIN					
Type/Model No.:	CB-5					
Serial/Equipment No.:	0035092					
Adaptors used:	Yes					
Item submitted by						
Customer:	Pilot Testing Ltd.					
Address of Customer:	-					
Request No.:	-					
Date of receipt:	11-Mar-2014					
Date of test:	13-Mar-2014					
Reference equipment	used in the calib	ration				
Description:	Model:	Serial No.	Expiry Date:	-	Fraceab	e to:
Lab standard microphone	B&K 4180	2341427	17-Apr-2014	S	SCL	
Preamplifier	B&K 2673	2239857	16-Apr-2014	C	CEPREI	
Measuring amplifier	B&K 2610	2346941	24-Apr-2014	C	CEPREI	
Signal generator	DS 360	61227	15-Apr-2014	C	CEPREI	
Digital multi-meter	34401A	US36087050	17-Dec-2014	C	CEPREI	
Audio analyzer	8903B	GB41300350	15-Apr-2014	C	CEPREI	
Universal counter	53132A	MY40003662	15-Apr-2014	C	CEPREI	
Ambient conditions						
Temperature:	22 ± 1 °C					
Relative humidity:	60 ± 10 %					
Air pressure:	1000 ± 10 hPa					
Test specifications						

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B 1, 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.

Huang Jian Min/Feng Jun Qi

14-Mar-2014 **Company Chop:**



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.

Date:

© Soils & Materials Engineering Co., Ltd.

Approved Signatory:

Form No.CARP156-1/Issue 1/Rev.D/01/03/2007

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



综合試驗有限公司 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. 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



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

14CA0311 02

Page: 2 of 2

1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

Frequency	Output Sound Pressure	Measured Output	Estimated Expanded
Shown	Level Setting	Sound Pressure Level	Uncertainty
Hz	dB	dB	dB
1000	94.00	93.92	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz	STF = 0.002 dB

Estimated expanded uncertainty

3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

0.005 dB

At 1000 Hz	Actual Frequency = 1000.9 Hz	
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2.2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz	TND = 0.9 %
Estimated expanded uncertainty	0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.



The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP156-2/Issue 1/Rev.C/01/05/2005

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Lam Environmental Services Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	Ning Po No.2 College	Calbration Date :		24-Jun-14
ID	:	AQM1	Calbration Due Dat	:	24-Aug-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

			A	mbient Co	ndition				
Temperature, T _a		301	Kelvin Pressure, P a					1004	mmHg
Orifice Transfer Standard Information									
Equipment No.		EL086		Slope, m _c	2.019	68	Intercept, b	c	-0.02746
Last Calibration Date		15-Jul-1	3		(Hxl	P _a / 10	13.3 x 298	/T _a) ^{1/}	2
Next Calibration Date		15-Jul-1	4		=	m _c >	$(Q_{std} + b_c)$		
Calibration of TSP									
Calibration	Mar	nometer R	eading	c) _{std}	Contir	uous Flow	IC	
Point	H (inches of water)		(m ³	/ min.)	Rec	order, W	(W(P _a /101	3.3x298/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	x-	axis	(CFM)		Y-axis
1	6.0	6.0	12.0	1.7	7124		55	:	54.4735
2	4.8	4.8	9.6	1.5	5330		46		45.5597
3	4.1	4.1	8.2	1.4	4179		40	:	39.6171
4	2.4	2.4	4.8	1.0	0880		25		24.7607
5	1.5	1.5	3.0	0.8	3630		15		14.8564
By Linear Regression of	Y on X								
	Slope, m	=	46.4	663	Int	ercept, b	= -2	25.6138	
Correlation Coefficient* = 0.99			996						
Calibration	Calibration Accepted = Yes/			No**					

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks :						
Calibrated by	:	Henry Lau	_	Checked by	:	Derek Lo
Date	:	24-Jun-14	-	Date	:	24-Jun-14



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

	ORIFICE 1	AIR POLLU RANSFER STAN	ITION MONITORII		VORKSHEET I	E-5025A	
Date - Jul 15, 2013 Rootsmeter S/N 0438320 Ta (K) - Operator Tisch Orifice I.D 0005 Pa (mm) - 75							
======= PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)	
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.3910 0.9830 0.8800 0.8380 0.6930	3.2 6.4 7.9 8.8 12.7	2.00 4.00 5.00 5.50 8.00	

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9884 0.9843 0.9822 0.9811 0.9760	0.7106 1.0013 1.1161 1.1708 1.4084	1.4090 1.9926 2.2278 2.3365 2.8180	0.9958 0.9916 0.9895 0.9884 0.9832	0.7159 1.0087 1.1244 1.1795 1.4188	0.8888 1.2570 1.4054 1.4740 1.7777
Qstd slor intercept coefficie	: (b) = ent (r) =	2.01968 -0.02746 0.99999 Pa/760) (298/5	 Qa slope intercept coefficie	z (b) =	1.26469 -0.01732 0.99999

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 = $1/m\{ [SQRT(H2O(Ta/Pa)] - b \}$



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 Tentative Environmental Monitoring Schedule July 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29-Jun	30-Jun	1-Jul	2-Jul		4-Jul 1hr TSP x 3 Noise	5-Jul
6-Jul	7-Jul	8-Jul	9-Jul 24 hr TSP	10-Jul 1hr TSP x 3 Noise	11-Jul	12-Jul
13-Jul		24 hr TSP	16-Jul 1hr TSP x 3 Noise	17-Jul	18-Jul	19-Jul
20-Jul	24 hr TSP	22-Jul 1hr TSP x 3 Noise	23-Jul	24-Jul		26-Jul 24 hr TSP
	28-Jul 1hr TSP x 3 Noise	29-Jul	30-Jul	31-Jul	1-Aug 24 hr TSP	2-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 Tentative Environmental Monitoring Schedule August 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27-Jul	28-Jul	29-Jul	30-Jul		1-Aug 24 hr TSP	2-Aug 1hr TSP x 3
3-Aug	4-Aug	5-Aug	6-Aug	24 hr TSP	8-Aug 1hr TSP x 3 Noise	9-Aug
10-Aug	11-Aug		13-Aug 24 hr TSP	14-Aug 1hr TSP x 3 Noise	15-Aug	16-Aug
17-Aug	18-Aug	19-Aug 24 hr TSP	20-Aug 1hr TSP x 3 Noise	21-Aug	22-Aug	23-Aug
24-Aug	24 hr TSP	26-Aug 1hr TSP x 3 Noise	27-Aug	28-Aug	-	30-Aug 24 hr TSP
	1-Sep 1hr TSP x 3 Noise	2-Sep	3-Sep		5-Sep 24 hr TSP	6-Sep 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



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

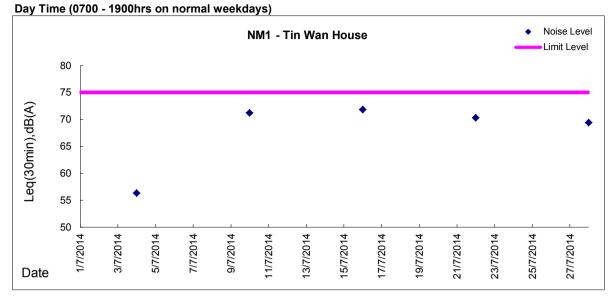
		Dayti	me(07:00-19:00)		
Date	Time	Location	Leq (dB)	L10 (dB)	L90 (dB)
4-Jul-14	11:15	NM1	56.3	66.0	55.9
4-Jul-14	10:10	NM2	64.5	67.7	58.8
10-Jul-14	10:20	NM1	71.2	74.4	64.3
10-Jul-14	9:10	NM2	68.0	72.3	62.8
16-Jul-14	10:05	NM1	71.8	74.3	68.5
10-Jul-14	10:40	NM2	69.4	72.3	65.7
22-Jul-14	9:55	NM1	70.3	74.7	63.7
22-Jui-14	9:15	NM2	66.0	68.5	61.9
28-Jul-14	10:50	NM1	69.4	73.3	64.7
20-301-14	10:10	NM2	68.7	69.3	61.7

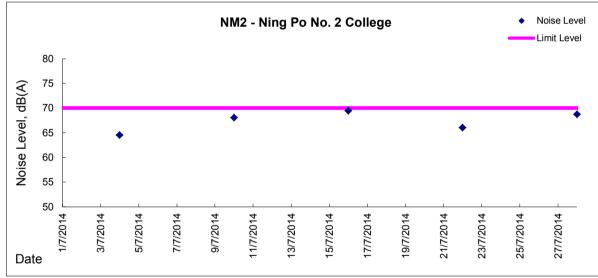
NM1 - Tin Wan House

NM2 - Ning Po No. 2 College



Graphic Presentation of Noise Monitoring Result







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

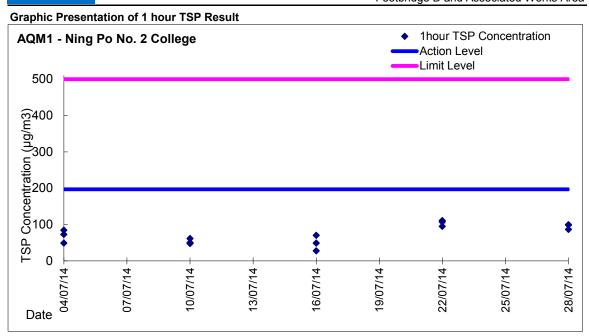
Date	Sampling	Weather	Filter	Filter Weight,	g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
3-Jul-14	8:00	Cloudy	008211	2.8218	2.8967	1574.30	1598.30	24.00	1.33	1.33	1.33	1909	39
9-Jul-14	8:00	Rainy	008213	2.8559	2.9426	1601.30	1625.30	24.00	1.33	1.33	1.33	1910	45
15-Jul-14	8:00	Rainy	009104	2.8251	2.8476	1628.30	1652.30	24.00	1.33	1.33	1.33	1913	12
21-Jul-14	8:00	Cloudy	009313	2.8381	2.9460	1655.30	1679.30	24.00	1.37	1.35	1.36	1956	55
26-Jul-14	8:00	Rainy	009309	2.8423	2.8854	1682.30	1706.30	24.00	1.41	1.43	1.42	2047	21

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

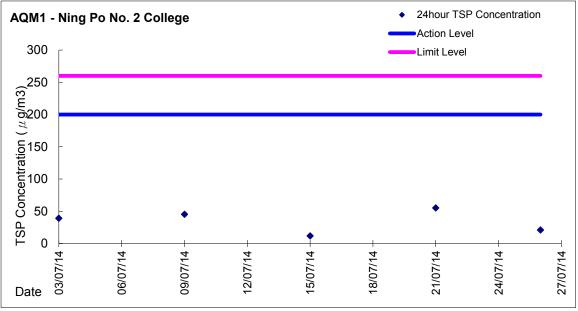
Date	Sampling	Weather	Filter	Filter Weight,	g	Elapse Tim	ie, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q_{sf}	Average	Volume, m ³	μ g/m ³
4-Jul-14	8:50	Rainy	008217	2.829	2.8348	1598.30	1599.30	1.00	1.33	1.33	1.33	80	73
4-Jul-14	9:55	Rainy	008218	2.8363	2.8430	1599.30	1600.30	1.00	1.33	1.33	1.33	80	84
4-Jul-14	11:00	Rainy	008219	2.8343	2.8382	1600.30	1601.30	1.00	1.33	1.33	1.33	80	49
10-Jul-14	8:50	Rainy	009101	2.8216	2.8256	1625.30	1626.30	1.00	1.33	1.33	1.33	80	50
10-Jul-14	9:55	Rainy	009106	2.8283	2.8332	1626.30	1627.30	1.00	1.33	1.33	1.33	80	62
10-Jul-14	11:00	Rainy	009105	2.8213	2.8251	1627.30	1628.30	1.00	1.33	1.33	1.33	80	48
16-Jul-14	8:40	Rainy	009102	2.8159	2.8215	1652.30	1653.30	1.00	1.33	1.33	1.33	80	70
16-Jul-14	9:50	Rainy	009103	2.8151	2.8190	1653.30	1654.30	1.00	1.33	1.33	1.33	80	49
16-Jul-14	10:55	Rainy	009293	2.8435	2.8457	1654.30	1655.30	1.00	1.33	1.33	1.33	80	28
22-Jul-14	8:46	Rainy	009312	2.8499	2.8590	1679.30	1680.30	1.00	1.37	1.37	1.37	82	111
22-Jul-14	9:50	Rainy	009311	2.8455	2.8533	1680.30	1681.30	1.00	1.37	1.37	1.37	82	95
22-Jul-14	11:00	Rainy	009310	2.8463	2.8551	1681.30	1682.30	1.00	1.37	1.37	1.37	82	107
28-Jul-14	8:54	Fine	009303	2.8484	2.8563	1706.30	1707.30	1.00	1.33	1.33	1.33	80	99
28-Jul-14	9:56	Fine	009305	2.8589	2.8658	1707.30	1708.30	1.00	1.33	1.33	1.33	80	87
28-Jul-14	11:00	Fine	009306	2.854	2.8619	1708.30	1709.30	1.00	1.33	1.33	1.33	80	99

am

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



Graphic Presentation of 24 hour TSP Result





Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

EVENT		A	CTION	
	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. 	 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; 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		ACTION		_
	ET	IC(E)	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	 Identify source; Inform IC(E) and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	 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. 	 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. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IC(E) within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
LIMITED LEVEL		1		
1. Exceedance for one sample	 Identify source; Inform ER, Contractor and EPD; 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. 	 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. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
2. Exceedance for two or more consecutive samples	 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 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. 	 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. 	 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; 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. 	 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.



Appendix 6.2

Summary for Notification of Exceedance _Air and Noise

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		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	

D		Task Name	D	0	Einish D 1	Succession	otal Slack	Dealan Eabled and the	2013	2014 NovDec Jan FebMarApnMayJun Jul AugSepOct	Jou Dan In
1	WBS 1	Development at Anderson Road - Footbridge D and	Duration 1119 days	Start Thu 31/01/13	Finish Predecessors Wed 30/11/16	Successors To	0 days		uni Jui Augsepioci	thodhee ratificationaly and rational	10 MDec 12
		Associated Works									
2	1.1	PRELIMINARY WORK	578 days	Thu 31/01/13	Sun 01/02/15		541 days	-			
3	1.1.1	Application of XP, Site Access from Highways	140 days	Thu 31/01/13	Wed 31/07/13	88	889 days				
4	1.1.2	Tree Survey	12 days	Mon 18/02/13	Sat 02/03/13	5	0 days	B			
5	1.1.3	Transplant	30 days	Mon 04/03/13	Thu 11/04/13 4		0 days				
6	1.1.4	Air & noise baseline monitoring	50 days	Mon 18/02/13	Sat 20/04/13	46,47	8 days]		
7	1.1.5	Record Survey, Condition Survey and Setting Out	90 days	Thu 31/01/13	Thu 30/05/13		1029 days				
8	1.1.6	Erect Fencing and Hoarding As Directed	48 days	Mon 08/04/13	Tue 04/06/13	16	491 days		*		
9	1.1.7	Design and material submission	120 days	Thu 31/01/13	Sat 06/07/13	38,79	128 days				
10	1.1.8	Handover of Portion A, B & C1	0 days	Sat 28/09/13	Sat 28/09/13	61	109 days		♦ _28	8/09	
11	1.1.9	Handover of Portion E1	0 days	Fri 31/05/13	Fri 31/05/13		1029 days	•	31/05		
12	1.1.10	Handover of Portion E2	0 days	Sun 01/02/15	Sun 01/02/15		541 days				
13	1.2	Section 1	781 days	Mon 08/04/13	Tue 01/12/15		20 days	-			
14	1.2.1	Lift Tower D-A	475 days	Wed 05/06/13	Wed 14/01/15		491 days				
15	1.2.1.1	Method statement and material submission	30 days	Mon 23/09/13	Tue 29/10/13 18SS-60 days		905 days			G	
16	1.2.1.2	Excavation for Raft footing	150 days	Wed 05/06/13	Tue 03/12/13 8	17SS	491 days				
17	1.2.1.3	Rock Joint Mapping for founding material of raft footing	150 days	Wed 05/06/13	Tue 03/12/13 16SS	18	491 days				
18	1.2.1.4	Construct Raft footing	30 days	Wed 04/12/13	Fri 10/01/14 17	19,15SS-60 days	491 days				
19	1.2.1.5	Construct RC Lift Tower and Retaining Wall	80 days	Sat 11/01/14	Sat 26/04/14 18	20,41	491 days				
20	1.2.1.6	Erect Steelwork for Lift Shaft	70 days	Mon 28/04/14	Tue 22/07/14 19	21,22	491 days				
21	1.2.1.7	Installation of Lift	100 days	Wed 23/07/14	Wed 19/11/14 20	22FF+5 days,23,24FS-60	491 days				B 11+
						days,54					
22	1.2.1.8	M&E Installation	100 days	Tue 29/07/14	Tue 25/11/14 20,21FF+5 days	23,24FS-60 days	550 days				
23	1.2.1.9	T & C of M&E Equipment	30 days	Wed 26/11/14	Fri 02/01/15 21,22	24FF+7 days	553 days				-
24	1.2.1.10	Finishing and Metal Works	100 days	Mon 15/09/14	Wed 14/01/15 21FS-60 days,22FS-60 days,23FF+7 days		550 days				
25	1.2.2	Lift Tower D-B	480 days	Tue 08/10/13	Mon 01/06/15		439 days		-		
26	1.2.2.1	Method statement and material submission	30 days	Tue 08/10/13	Tue 12/11/13 27SS-60 days		893 days		*		
27	1.2.2.2	Excavation for Raft footing	100 days	Wed 18/12/13	Tue 29/04/14 74	28SS,26SS-60 days	379 days				
28	1.2.2.3	Rock Joint Mapping for founding material of raft footing	100 days	Wed 18/12/13	Tue 29/04/14 27SS	29	379 days				
29	1.2.2.4	Construct Raft footing	30 days	Wed 30/04/14	Thu 05/06/14 28	30	379 days				
30	1.2.2.5	Construct RC Lift Tower and Retaining Wall	80 days	Fri 06/06/14	Wed 10/09/14 29	31,41	379 days			*	
31	1.2.2.6	Erect Steelwork for Lift Shaft	70 days	Thu 11/09/14	Wed 03/12/14 30	32,33	379 days				
32	1.2.2.7	Installation of Lift	100 days	Thu 04/12/14	Mon 13/04/15 31	33FF,34,35FS-60 days,54	379 days				
	e: Mon 10/0		Milestone 🛇	*		Mileston		An or send the lower bills a list of	eline		
Prep	pared By: T.	L. Lo Baseline	Summary	A	Critical Task	Summary	y 두	Prog	gress		

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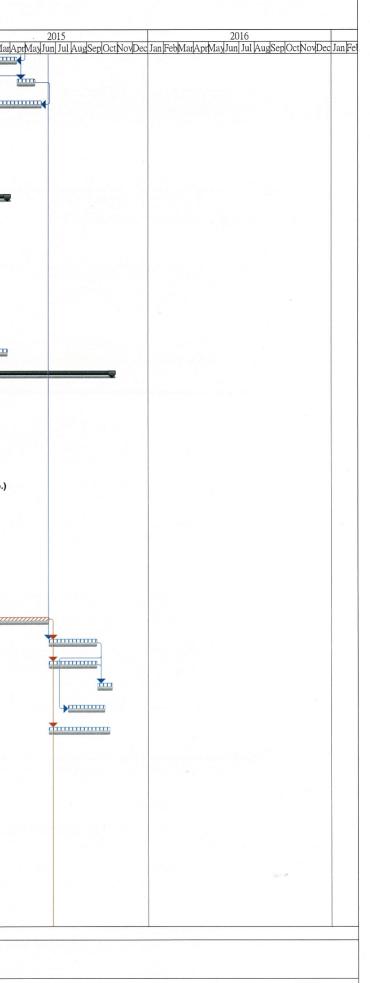
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2015	2016 Jan FebMarAprMayJun Jul AugSepOctNovDec	
ayJun Jul AugSepOctNovDec	Jan FebMarAprMayJun Jul AugSepOctNovDec	Jan
		. 8
	1. A. A.	
		-

Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>			Master Programme For Contract No. CV/2012/07 Development at Anderson Road - Footbridge D and Associated Works (Rev. 2)											
3 232 Mark Remains Diffusion Diffusion <thdiffusion< th=""> <thdiffusion< th=""> <thdiffusion< t<="" th=""><th></th><th>Name</th><th>Duration</th><th>Start</th><th>Finich</th><th>Predecessors</th><th>Successors</th><th>Total Slack</th><th>20 ec Jan FebMarAnrMay Jun</th><th>13 Jul AugSenOc</th><th>tNovDec Jan Feb</th><th>2014 IarAprMayJun Jul</th><th>AugSepOctNovD</th><th>Dec J</th></thdiffusion<></thdiffusion<></thdiffusion<>		Name	Duration	Start	Finich	Predecessors	Successors	Total Slack	20 ec Jan FebMarAnrMay Jun	13 Jul AugSenOc	tNovDec Jan Feb	2014 IarAprMayJun Jul	AugSepOctNovD	Dec J
S 23.0 Preicht auf Mahl Wehr 100 des PH 30215 Med 000013 Wyder of the start star		M&E Installation		Thu 04/12/14	Mon 13/04/	15 32FF,31								1111
All Bridge Data D-40 SS dags Weid 2404713	4 1.2.2.9	T & C of M&E Equipment	30 days	Tue 14/04/15	Tue 19/05/	15 32,33	35FF+7 days	446 days						
No. No. <td>1.2.2.10</td> <td>Finishing and Metal Works</td> <td>100 days</td> <td>Fri 30/01/15</td> <td>Mon 01/06/</td> <td>days,33FS-60 days,34FF+7</td> <td></td> <td>443 days</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1.2.2.10	Finishing and Metal Works	100 days	Fri 30/01/15	Mon 01/06/	days,33FS-60 days,34FF+7		443 days						
II.2.1 Interformed Marmin Interformed Marmin Interformed Marmin II.2.2 Observing Marmin Data Mark Wei 000101 The 000101 900 D3058-00 days D8 days II.2.3.5 Data Mark Gardin Mark Mark Wei 000101 The 00011 19 0 D3058-00 days D8 days II.2.3.5 Data Mark Gardin Mark Gardin Gardin Mark Mark <td>6 1.2.3</td> <td>Bridge Deck D-AB</td> <td>563 days</td> <td>Wed 24/04/13</td> <td>Wed 25/03/*</td> <td>15</td> <td></td> <td>188 days</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	6 1.2.3	Bridge Deck D-AB	563 days	Wed 24/04/13	Wed 25/03/*	15		188 days						
12.22 Outcome of manual of basic basic failer Disk weight of manual of basic basic failer Disk weight of basic b	7 1.2.3.1	Method statement and material submission	30 days	Wed 24/04/13	Thu 30/05/	13 38SS-60 days		1029 days	• •••••					
90 12.5.3 Prantauto function and seed rotation in seed on the operation of the operation of the operation in the opera in the operatine in the operation in the operation	38 1.2.3.2	Ordering of Material	100 days	Mon 08/07/13	Tue 05/11/	139	39,37SS-60 days	128 days						
Dia Dia Dial D	39 1.2.3.3	Fabrication of Steel work off site	100 days	Wed 06/11/13	Thu 13/03/	14 38	40,80	128 days			*	Դ		
Image: Constraint of the stress of	40 1.2.3.4	Connecting the Bridge on site	60 days	Fri 14/03/14	Wed 28/05/	14 39	41	582 days						
2 12.30 Excling an Empiricipation (minute) works or bridge 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.0000000	41 1.2.3.5	Erecting Steel bridge frame	7 days	Thu 11/09/14	Thu 18/09/	14 40,30,19	89,42	496 days					Ť	
3 1.2.1 2.0001g prime (mits) with som mage 30.002 prime Mol 2007124 Mol 20071	42 1.2.3.6	Irrigation system installation	60 days	Fri 19/09/14	Sat 29/11/	14 41	43	496 days						
Normalization Normalication Normalization Normalic	43 1.2.3.7	Roofing and finishing works on bridge	90 days	Mon 01/12/14	Wed 25/03/	15 42		496 days						inter
International field Prechail & determine FL (included all necessary preparation dolls hol) Into 2005/13 Wed 1906/13 6 47.70.73 O days 47 12.4.3 Demolish the existing structure 30 days Tra 2005/13 Fra 2005/13 Fra 2005/13 Gal 20 days 48 12.4.4 Construct The-bond H pile (01 a) (included all necessary 100 days Wel 19/12/13 Sat 1207/14 47.72.7.4 49.4555.60 days 0 days 49 12.4.5 Pile Testing Construct pile cap 30 days Fri 2008/14 Mon 0/10/14.49 51 0 days 50 12.4.6 Construct pile cap 30 days Fri 2008/14 Mon 0/10/14.49 53 0 days 51 12.4.7 Construct pile cap 30 days Tac 0/11/14 Mon 10/11/14 50 53 0 days 52 12.4.6 Construct appendication of Lifi 80 days Tac 10/11/14 Mon 10/11/14 50 53 0 days 53 12.4.1 Model Einstallion 80 days Tac 10/01/55 S12.55.55.2 0 days 54 12.4.11 Model Stateme	44 1.2.4	Lift Tower D-C	726 days	Thu 02/05/13	Tue 20/10/	15		0 days	s					+
Internation and test) preparation and test) Production and test) 47 12.4.3 Denotish the existing structure 30 days The 2000/113 46.6 48 120 days 48 12.4.4 Construct Pre-bread: H glie (do no) (included all necessary 160 days 0 days 0 days 0 days 49 12.4.5 Pit: Testing 40 days Mon 1407/14 The 2008/14.48 50 0 days 50 12.4.6 Construct pile cap 30 days The 2008/14.48 50 0 days 51 12.4.7 Construct superstructure to level 103.8 30 days The 2017/14 Mon 021/14.45 53 0 days 52 12.4.8 Backfilling above pile cap 12 days The 11/11/14 Mon 021/14.45 53 0 days 53 12.4.10 Mack Isselination of List 80 days The 2010/15 53.21.32 56.57F8.49 days 327 days 54 12.4.10 Mack Isselination 12 days The 1200/15 54.55 327 days 31 days 57 12.4.13 Rocing Cramecian Tower D-3 & D-C	45 1.2.4.1	Method statement and material submission	30 days	Tue 08/10/13	Tue 12/11/	13 48SS-60 days		893 days						
12.4.1 Definition to exceeding analysis 1.0.000011	46 1.2.4.2		40 days	Thu 02/05/13	Wed 19/06/	136	47,70,73	0 days	1					
12.24 Construct relie of preparation and the 00 m0 (minuted and matching) 100 mbys Non 100 mbys 100 mbys <td>47 1.2.4.3</td> <td>Demolish the exixting structure</td> <td>30 days</td> <td>Thu 20/06/13</td> <td>Fri 26/07/</td> <td>13 46,6</td> <td>48</td> <td>120 days</td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td>	47 1.2.4.3	Demolish the exixting structure	30 days	Thu 20/06/13	Fri 26/07/	13 46,6	48	120 days			+			
9 1.2.4.6 Construct pile cap 30 days Fri 2908/14 Mon 06/10/14 49 51 0 days 1 1.2.4.7 Construct superstructure to level 103.8 30 days Tue 07/10/14 Mon 10/11/14 50 52 0 days 1 1.2.4.7 Construct superstructure to level 103.8 30 days Tue 07/10/14 Mon 20/11/14 51 53 0 days 1 1.2.4.9 Construct superstructure level 103.8-158.05 160 days Tue 25/11/14 Mon 1506/15 52 54.58.55.82 0 days 55 1.2.4.10 Installation of Lift 80 days Tue 1606/15 Sat 1909/15 53.21.32 56.5718-49 days 327 days 56 1.2.4.12 T.&C of M&E Equipment 24 days Mon 2109/15 Tue 2010/15 54/55.5 327 days 57 1.2.4.13 Roofing Connection Tower D-B & D-C 60 days Thu 150/101 5 54/54.49 days 331 days 59 1.2.4.14 Finishing and Metal Works 100 days Thu 1200/11 Mon 2020/15 169 days 50 1.2.5.1 Method statement and material submission 30 days Thu 1200/11 62.65055-60 days 960 days 51	48 1.2.4.4		160 days	Wed 18/12/13	Sat 12/07/	14 47,72,74	49,45SS-60 days	0 days			-	n na serie de la constante de	Bored pile machi	ne
1.2.4.7 Construct superstructure to level 103.8 30 days Tue 07/10/14 Mon 10/11/14 50 52 0 days 52 1.2.4.8 Backfilling above pile cap 12 days Tue 11/11/14 Mon 24/11/14 51 53 0 days 53 1.2.4.9 Construct superstructure level 103.8-158.05 160 days Tue 25/11/14 Mon 10/10/15 52 54.58.55.82 0 days 54 1.2.4.10 Installation of Lift 80 days Tue 16/06/15 Sat 1900/15 53.21.32 56.57F8-49 days 327 days 55 1.2.4.10 Installation of Lift 80 days Tue 16/06/15 Sat 1900/15 54.55 327 days 56 1.2.4.12 T.& C of M&EE Equipment 24 days Mon 21/10/15 54 327 days 57 1.2.4.13 Roofing Connection Tower D-B &D-C 60 days Tue 16/06/15 Tue 18/07/13 58 1.2.4.14 Finishing and Metal Works 100 days Tue 18/07/13 Mon 02/02/15 169 days 59 1.2.5.1 Method statement and material submission 30 days Thu 18/07/13 Thu 22/08/13 618S-60 days 960 days 61 1.2.5.2 Slope Cutring 10	49 1.2.4.5	Pile Testing	40 days	Mon 14/07/14	Thu 28/08/	14 48	50	0 days						
12.12.4.8 Backfilling above pile cap 12 days Tue 11/11/4 Mon 24/11/14 51 53 0 days 53 1.24.4.8 Backfilling above pile cap 12 days Tue 11/11/4 Mon 1506/15 52 54,58,55,82 0 days 54 1.24.10 Installation of Lift 80 days Tue 160/0/15 Sat 1909/15 53.21,22 56,5718-49 days 327 days 55 1.24.11 M&E Installation 80 days Tue 160/0/15 Sat 1909/15 53 56 327 days 56 1.24.12 T & C of M&E Equipment 24 days Mon 10/0/15 Tue 20/10/15 54/55 327 days 57 1.24.13 Roofing Connection Tower D-B & D-C 60 days Tue 160/0/15 Tue 15/10/15 53 31 days 58 1.24.14 Finishing and Metal Works 100 days Tue 160/0/15 Tue 12/0/15 54/55 960 days 59 1.25. Pier D-D 450 days Tue 11/1/14 Mon 02/0/15 109 days 61 1.25.2 Slope Cutting 10 days Sat 28/0/13 Thu 10/10/13 10 62.60SS-60 days 109 days 62 1.25.4 Prechrill & determine F/L (included all nece	50 1.2.4.6	Construct pile cap	30 days	Fri 29/08/14	Mon 06/10/	14 49	51	0 days					2000	
a 10.0 Construct superstructure level 103.8-158.05 160 days Tue 25/11/14 Mon 1506/15 52 54,58,55.82 0 days 54 1.2.4.10 Installation of Lift 80 days Tue 1606/15 Sat 1909/15 53,21,32 56,57FS-49 days 327 days 55 1.2.4.11 M&E Installation 80 days Tue 1606/15 Sat 1909/15 53 56 327 days 56 1.2.4.12 T & C of M&E Equipment 24 days Mon 2109/15 Tue 2010/15 54/55 327 days 57 1.2.4.13 Roofing Connection Tower D-B & D-C 60 days Fri 2407/15 Mon 2020/15 The 15/10/15 54/53 331 days 59 1.2.4.14 Finishing and Metal Works 100 days Tue 16/06/15 Thu 15/10/15 53 331 days 59 1.2.5.1 Method statement and material submission 30 days Thu 18/07/13 Thu 22/08/13 61/58-60 days 960 days 61 1.2.5.2 Slope Cutting 10 days Fri 11/10/13 Wed 27/11/13 61 63 109 days 62 1.2.5.4 Predrill & determine F/L (included all necessary preparation and test) 20 days 54 10/11/13 Fri 20/12/13 62 6	51 1.2.4.7	Construct superstructure to level 103.8	30 days	Tue 07/10/14	Mon 10/11/	14 50	52	0 days					·····	
35 12.4.9 Construct subjects tubelity level 105.8-158.05 100 days 100 days 100 lays	52 1.2.4.8	Backfilling above pile cap	12 days	Tue 11/11/14	Mon 24/11/	14 51	53	0 days						
12.4.11 M&E Installation 80 days Tue 16/06/15 Sat 19/09/15 53 56 327 days 56 1.2.4.12 T & C of M&E Equipment 24 days Mon 21/09/15 Tue 20/10/15 54.55 327 days 57 1.2.4.13 Roofing Connection Tower D-B & D-C 60 days Fri 24/07/15 Mon 05/10/15 54FS-49 days 340 days 58 1.2.4.14 Finishing and Metal Works 100 days Tue 16/06/15 Thu 15/10/15 53 331 days 59 1.2.5 Pier D-D 450 days Thu 18/07/13 Mon 02/02/15 169 days 60 1.2.5.1 Method statement and material submission 30 days Thu 18/07/13 Thu 22/08/13 61SS-60 days 960 days 61 1.2.5.2 Slope Cutting 10 days Fri 11/10/13 Wed 27/11/13 61 63 109 days 62 1.2.5.4 Predrill & determine F/L (included all necessary preparation and test) 20 days Thu 28/1/13 Fri 20/12/13 62 64 109 days 64 1.2.5.5 Construct mini pile (30 nos) (included all necessary 90 days Sat 21/12/13 Thu 17/04/14 63 65 109 days	53 1.2.4.9	Construct superstructure level 103.8~158.05	160 days	Tue 25/11/14	Mon 15/06/	15 52	54,58,55,82	0 days					2	m
12.4.112 T & C of M&E Equipment 24 days Mon 21/09/15 Tue 20/10/15 54,55 327 days 17 1.2.4.12 T & C of M&E Equipment 24 days Mon 21/09/15 Tue 20/10/15 54,55 327 days 17 1.2.4.13 Roofing Connection Tower D-B & D-C 60 days Fri 24/07/15 Mon 05/10/15 54FS-49 days 340 days 18 1.2.4.14 Finishing and Metal Works 100 days Tue 16/06/15 Thu 15/10/15 53 331 days 19 1.2.5.1 Method statement and material submission 30 days Thu 18/07/13 Thu 20/8/13 61SS-60 days 960 days 10 1.2.5.2 Slope Cutting 10 days Sat 28/09/13 Thu 10/10/13 10 62,60SS-60 days 109 days 10 1.2.5.4 Predrill & determine F/L (included all necessary preparation and test) 20 days Thu 28/11/13 Fri 20/12/13 62 64 109 days 10 1.2.5.5 Construct mini pile (30 nos) (included all necessary preparation and test) 90 days 54 21/2/13 Thu 17/04/14 63 65 109 days	54 1.2.4.10	Installation of Lift	80 days	Tue 16/06/15	Sat 19/09/	15 53,21,32	56,57FS-49 days	327 days						
a hand b b connection Tower D-B & D-C 60 days Fri 24/07/15 Mon 05/10/15 54FS-49 days 340 days 57 1.2.4.13 Roofing Connection Tower D-B & D-C 60 days Tw 160/6/15 Thu 15/10/15 53 331 days 58 1.2.4.14 Finishing and Metal Works 100 days Tw 160/6/15 Thu 15/10/15 53 331 days 59 1.2.5 Pier D-D 450 days Thu 18/07/13 Thu 22/08/13 61SS-60 days 960 days 60 1.2.5.1 Method statement and material submission 30 days Thu 18/07/13 Thu 22/08/13 61SS-60 days 960 days 61 1.2.5.2 Slope Cutting 10 days Sat 28/09/13 Thu 10/10/13 10 62,60SS-60 days 109 days 62 1.2.5.4 Predrill & determine F/L (included all necessary preparation and test) 20 days Thu 28/11/13 Fri 20/12/13 62 64 109 days 64 1.2.5.5 Construct mini pile (30 nos) (included all necessary 90 days Sat 21/12/13 Thu 17/04/14 63 65 109 days Fri 20/12/13 62 64 109 days	55 1.2.4.11	M&E Installation	80 days	Tue 16/06/15	Sat 19/09/	15 53	56	327 days						
1.2.4.14 Finishing and Metal Works 100 days Tue 16/06/15 Thu 15/10/15 53 331 days 59 1.2.5 Pier D-D 450 days Thu 18/07/13 Mon 02/02/15 169 days 60 1.2.5.1 Method statement and material submission 30 days Thu 18/07/13 Thu 22/08/13 61SS-60 days 960 days 61 1.2.5.2 Slope Cutting 10 days Sat 28/09/13 Thu 10/10/13 10 62,60SS-60 days 109 days 62 1.2.5.3 Working platform for mini pile 40 days Fri 11/10/13 Wed 27/11/13 61 63 109 days 63 1.2.5.4 Predrill & determine F/L (included all necessary preparation and test) 20 days Thu 28/11/13 Fri 20/12/13 62 64 109 days 64 1.2.5.5 Construct mini pile (30 nos) (included all necessary preparation and test) 90 days Sat 21/12/13 Thu 17/04/14 63 65 109 days	56 1.2.4.12	T & C of M&E Equipment	24 days	Mon 21/09/15	Tue 20/10/	15 54,55		327 days						
Solution Finance	57 1.2.4.13	Roofing Connection Tower D-B & D-C	60 days	Fri 24/07/15	Mon 05/10/	15 54FS-49 days		340 days					2	
60 1.2.5.1 Method statement and material submission 30 days Thu 18/07/13 Thu 22/08/13 61SS-60 days 960 days 61 1.2.5.2 Slope Cutting 10 days Sat 28/09/13 Thu 10/10/13 10 62,60SS-60 days 109 days 62 1.2.5.3 Working platform for mini pile 40 days Fri 11/10/13 Wed 27/11/13 61 63 109 days 63 1.2.5.4 Predrill & determine F/L (included all necessary preparation and test) 20 days Thu 28/11/13 Fri 20/12/13 62 64 109 days 64 1.2.5.5 Construct mini pile (30 nos) (included all necessary preparation and test) 90 days Sat 21/12/13 Thu 17/04/14 63 65 109 days	58 1.2.4.14	Finishing and Metal Works	100 days	Tue 16/06/15	Thu 15/10/	15 53		331 days						
61 1.2.5.2 Slope Cutting 10 days Sat 28/09/13 Thu 10/10/13 10 62,60SS-60 days 109 days 62 1.2.5.3 Working platform for mini pile 40 days Fri 11/10/13 Wed 27/11/13 61 63 109 days 63 1.2.5.4 Predrill & determine F/L (included all necessary preparation and test) 20 days Thu 28/11/13 Fri 20/12/13 62 64 109 days 64 1.2.5.5 Construct mini pile (30 nos) (included all necessary 90 days Sat 21/12/13 Thu 17/04/14 63 65 109 days	59 1.2.5	Pier D-D	450 days	Thu 18/07/13	Mon 02/02/	15		169 days						-
61 1.2.5.3 Working platform for mini pile 40 days Fri 11/10/13 Wed 27/11/13 61 63 109 days 62 1.2.5.4 Predrill & determine F/L (included all necessary preparation and test) 20 days Thu 28/11/13 Fri 20/12/13 62 64 109 days 64 1.2.5.5 Construct mini pile (30 nos) (included all necessary 90 days Sat 21/12/13 Thu 17/04/14 63 65 109 days	60 1.2.5.1	Method statement and material submission	30 days	Thu 18/07/13	Thu 22/08/	13 61SS-60 days		960 days						
02 1.2.5.5 working praction not miniple 40 days 11111010 wed 2/11115 01 00 100 days 03 1.2.5.4 Predrill & determine F/L (included all necessary preparation and test) 20 days Thu 28/11/13 Fri 20/12/13 62 64 109 days 64 1.2.5.5 Construct mini pile (30 nos) (included all necessary 90 days 90 days Sat 21/12/13 Thu 17/04/14 63 65 109 days	61 1.2.5.2	Slope Cutting	10 days	Sat 28/09/13	Thu 10/10/	13 10	62,60SS-60 days	109 days						
64 1.2.5.5 Construct mini pile (30 nos) (included all necessary 90 days Sat 21/12/13 Thu 17/04/14 63 65 109 days	62 1.2.5.3	Working platform for mini pile	40 days	Fri 11/10/13	Wed 27/11/	13 61	63	109 days		2				
1.2.5.5 Construct mini pie (50 nos) (included an necessary 50 days our 21/12/15 mid month co	63 1.2.5.4	Predrill & determine F/L (included all necessary preparation and test)	20 days	Thu 28/11/13	Fri 20/12/	13 62	64	109 days		- 9i -	*			
	64 1.2.5.5		90 days	Sat 21/12/13	Thu 17/04/	14 63	65	109 days				Mini pile m	achine - A (1no)	

and Finish On 30-Nov-2016 (1399 days) Duration as shown by week day

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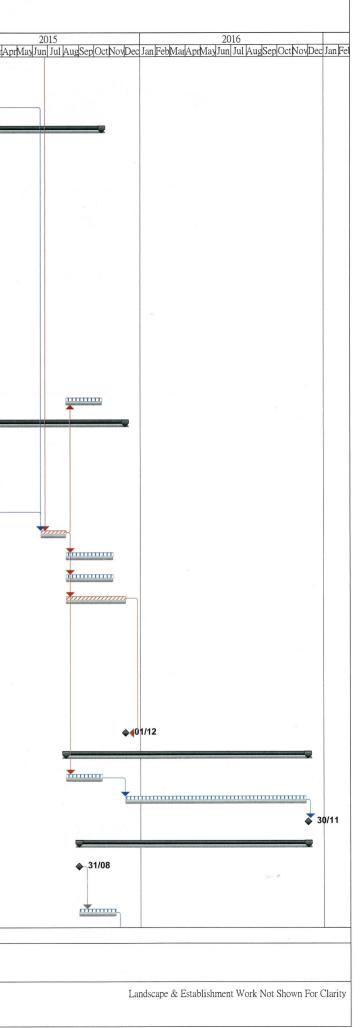
Landscape & Establishment Work Not Shown For Clarity

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

(Rev. 2) 2013 2014 2015 2016 ec Jan FebMarAprMayJun Jul AugSepOctNovDec Jan FebMarAprMayJun Jul Aug ID Task Name Total Slack Star Finish Successors WBS Duration 65 1.2.5.6 Pile Testing 40 days Tue 22/04/14 Mon 09/06/14 64 66 109 day 67 109 days 66 1.2.5.7 100 days Tue 10/06/14 Thu 09/10/14 65 Construct pile cap 109 day: 82 ····· Fri 10/10/14 Mon 02/02/15 66 67 1.2.5.8 Construct pier to level 152.1 90 days 60 days 742 days Mon 08/04/13 Thu 15/10/15 68 1.2.6 Slope Works 1043 days 69 1.2.6.1 Method statement and material submission 30 days Mon 08/04/13 Mon 13/05/13 70SS-60 days Soil nail machine-A (1no. 71SS.72.69SS-60 50 days 50 days Thu 20/06/13 Mon 19/08/13 46 70 1.2.6.2 Slope Cutting, Soil Nail and Raking Drain (Row D-F) days (included all necessary preparation and test) 31nos 893 days 71 1.2.6.3 Construct Cascade and down pipe 120 days Thu 20/06/13 Tue 12/11/13 70SS Soil nail machine-A (1no.) 48 50 days Tue 20/08/13 Sat 19/10/13 70 72 1.2.6.4 Slope Cutting, Soil Nail and Raking Drain (Row C-A) 50 days (included all necessary preparation and test) 40nos 74 Soil nail machine-B (1no.) 0 days 73 1.2.6.5 Slope Cutting, Soil Nail and Raking Drain (Row S-L) 90 days Thu 20/06/13 Mon 07/10/13 46 (included all necessary preparation and test) 103nos Soil nail machine-B (1no.),Soil nail machine-A (1no.) Slope Cutting, Soil Nail and Raking Drain (Row K-G) Tue 08/10/13 Tue 17/12/13 73 75,27,48 0 days 74 1.2.6.6 60 days (included all necessary preparation and test) 102nos 743 days 75 1.2.6.7 Construction of Inspection Access to Slope 120 days Wed 18/12/13 Fri 23/05/14 74 Wed 05/08/15 Thu 15/10/15 82 331 days 76 1.2.6.8 Constructio of Footpath (Portion B) 60 days 767 days Wed 24/04/13 Tue 01/12/15 208 days 77 1.2.7 Bridge Deck D-CE Wed 24/04/13 Thu 30/05/13 79SS-60 days 1029 days 78 1.2.7.1 Method statement and material submission 30 days 79 1.2.7.2 Mon 08/07/13 Tue 18/02/14 9 80,78SS-60 days 148 days Ordering of Material 180 days 81 128 days 80 1.2.7.3 Fabrication of Steel work off site 150 days Fri 14/03/14 Mon 15/09/14 79,39 82 128 days Tue 16/09/14 Sat 03/01/15 80 81 1.2.7.4 Connecting the Bridge on site 90 days 83.85.93.76.84 0 days Tue 16/06/15 Tue 04/08/15 81,67,53 82 1.2.7.5 Erecting Steel bridge frame 40 days Wed 05/08/15 Fri 06/11/15 82 313 days 83 1.2.7.6 M&E Installation 78 days 313 days Wed 05/08/15 Fri 06/11/15 82 84 1.2.7.7 Irrigation system installation 78 days 85 1.2.7.8 Roofing and finishing works on bridge 99 days Wed 05/08/15 Tue 01/12/15 82 91FF 0 days Tue 20/08/13 Wed 18/02/15 526 days 86 1.2.8 Drainage Works at Shun On Road 437 days 87 1.2.8.1 Method statement and material submission 30 days Tue 20/08/13 Tue 24/09/13 88SS-60 days 933 days 88 1.2.8.2 Fri 01/11/13 Tue 25/02/14 3 87SS-60 days 813 days DN1500 drainage construction 90 days ······ 90 526 days 89 1.2.8.3 DN375 and DN225 Drainage construction 60 days Fri 19/09/14 Sat 29/11/14 41 Toluno 526 days 90 1.2.8.4 Mon 01/12/14 Wed 18/02/15 89 Road Works and Reinstatement Works 60 days 0 days Tue 01/12/15 Tue 01/12/15 85FF 91 1.2.9 Completion of Section 1 0 days 92 1.3 390 days Wed 05/08/15 Wed 30/11/16 1 day Section 2 94 42 days 93 1.3.1 Wed 05/08/15 Thu 15/10/15 82 60 days Landscape Softworks for Footbridge D 95 94 1.3.2 Establishment Works for Footbridge D 289 days Tue 01/12/15 Fri 25/11/16 93 4 days 1 day 95 1.3.3 Completion of Section 2 0 days Wed 30/11/16 Wed 30/11/16 94 369 days Mon 31/08/15 Wed 30/11/16 0 days 96 1.4 Section 3 0 days 97 1.4.1 0 days Mon 31/08/15 Mon 31/08/15 98 Notified by The Engineer for commencing (Subject to Excision) 99 20 days 60 days Mon 31/08/15 Wed 11/11/15 97 98 1.4.2 Landscape Softworks for Footbridge D Baseline Milestone Task Milestone . Baseline Date: Mon 10/06/13 mm Progress Prepared By: T.L. Lo Critical Task Summary Baseline Summary

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

Lam - Po Wing Joint Venture



						De	Master velopment at A	Programme Anderson Ro	e For Contract No. oad - Footbridge D (Rev. 2)	CV/2012/07 and Associated Wo	orks	
ID 99	WBS 1.4.3	Task Name Landscape Softworks and Establishment Works for Footbridge A, B and C	Duration 289 days	Start Thu 12/11/15	Finish Mon 07/11/1	Predecessors 16 98	Successors 100	Total Slack) 20 day		2013 Jun Jul AugSepOctNovDec	2014 c Jan FebMarAprMayJun Jul AugSepOctNovI	Dec Jan FebMarApr
100	1.4.4	Completion of Section 3	0 days	Wed 30/11/16	Wed 30/11/1	16 99		0 day	ys			

Date: Mon 10/06/13 Baseline Milestone Task Infinition Milestone Baseline Prepared By: T.L. Lo Baseline Summary Critical Task Critical Task Summary Progress	_
Date: MOI 10/00/15 Deserve Micsione V 1 ask difference Deserve Des	
Date: Mon 10/06/13 Baseline Milestone A Task Milestone A Baseline	

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

Lam - Po Wing Joint Venture

2015 prMayJun Jul AugSepOctNovDe	20 ec Jan FebMarAnrMay Jun)16 Jul AugSenOctN	loyDec Ian
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