# **Civil Engineering and Development Department**

# Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works Design and Construction

Monthly EM&A Report (Version 1.0)

February 2017

Approved By	(Dr. Priscilla Choy, Environmental Team Leader)
REMARKS:	ļ

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

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

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## **EXECUTIVE SUMMARY**

#### Introduction

- This is the 4<sup>th</sup> Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the "Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction" (hereinafter called "the Project"). This report documents the findings of EM&A Works conducted in 1 – 28 February 2017.
- 2. During the reporting month, the major site activities undertaken in the reporting month included:
  - Site Clearance in Portions A, B, C, D, E, F, G, H, I and N;
  - Construction of wheel washing facilities in Portions B, C, E and F;
  - Ground investigation in Portions D, E, H and J;
  - Construction of RC structure and public toilet in Portion L;
  - Tree felling in Portions A, B, C, D, E, F, G, H, I and N;
  - Construction of retaining wall in Portions A, C, E and K;
  - Construction of subway in Portions B and I;
  - Utilities diversion works in Portions A, B, C, D, E, F, G, H and N;
  - Earthworks and drainage works, utilities laying in Portions A and B;
  - Construction of rectangular channel in Portion E; and
  - Construction of project signboards in Works Area 3.

#### **Environmental Monitoring Works**

- 3. Environmental monitoring for the Project shall be performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 4. Summary of the non-compliance in the reporting month for the Project is tabulated in Table I.

Parameter No. of Exceed		edance	Action Taken
	Action Level	Limit Level	Такеп
Noise	0	0	N/A

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

#### Key Information in the Reporting Month

5. Summary of key information in the reporting month is tabulated in Table II.

#### Table II Summary Table for Key Information in the Reporting Month

Event	E <sup>v</sup> Number	vent Details Nature	Action Taken	Status	Remark
Complaint received	0		N/A	N/A	
Reporting Changes	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

# **Environmental License and Permits**

- 6. Licenses/Permits granted to the Project include:
  - Environmental Permits (EP) for the Project,
    - EP-450/2013 issued on 30 May 2013 and EP-450/2013/A issued on 25 August 2015; and
    - EP-501/2015 issued on 2 September 2015
  - Billing Account for Waste Disposal (Acc No.: 7025411)

# Future Key Issues

- 7. The future key environmental issues in the coming two months include:
  - Wastewater and runoff generation on-site;
  - Regular removal of silt, mud and sand along u-channels and inside sedimentation tanks;
  - Review and implementation of temporary drainage system for the surface runoff;
  - Noise from operation of the equipment, especially for excavation works and machinery on-site;
  - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and other dust-generating activities;
  - Water spraying for dust generating activities and on haul road;
  - Proper storage of construction materials on-site;
  - Storage of chemicals/fuel and chemical waste/ waste oil on-site;
  - Accumulation of general refuse and construction waste on-site; and
  - Protection measures for retained trees on-site.

# 1 INTRODUCTION

## Background

- 1.1 "Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River" (the EIA Report) is a Schedule 2 Designated Project (DP) under Environmental Impact Assessment Ordinance (EIAO). The Environmental Impact Assessment (EIA) Report (Registered No.: AEIAR-133/2009) and the associated Environmental Monitoring and Audit (EM&A) Manual was approved on 12 March 2009.
- 1.2 Civil Engineering and Development Department (CEDD) implemented the DP in two stages, i.e. Stage 1 and Stage 2. An Environmental Permit (EP) No. EP-450/2013 has been granted for Stage 1 works on 30 May 2013. Pursuant to Section 13 of the EIAO, the Director of Environmental Protection amends the Environmental Permit (No. EP-450/2013) based on the Application No. VEP-478/2015 and the EP (Permit No. EP-450/2013/A) was issued on 25 August 2015 to CEDD as the Permit Holder.
- 1.3 An Environmental Review (ER) Report of the "Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River Stage 2" had been prepared in July 2015 and the Environmental Monitoring and Audit Manual (EM&A Manual) was also included as part of the ER report in the application (Application No.: AEP-501-2015). An Environmental Permit No. EP-501/2015 was issued on 2 September 2015 for Stage 2 works to CEDD as the Permit Holder.
- 1.4 "Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui Remaining Works Design and Construction" (hereinafter called the "Project") covers the Stage 1 (Part) and Stage 2 works of the DP. This Project was commissioned to Sang Hing Kuly Joint Venture (hereinafter called the "Contractor") for "Contract No.: YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui Remaining Works". The site location and work programme are shown in Figure 1a-1h and Appendix A respectively.
- 1.5 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The construction commencement of the Project was on 23<sup>th</sup> November 2016. This is the 4<sup>th</sup> Monthly EM&A Report summarizing the EM&A works for the Project from 1 28 February 2017.

# **Project Organizations**

1.6 Different parties with different levels of involvement in the project organization include:

Project Proponent – Civil Engineering and Development Department (CEDD) Supervisor Representative – Mannings (Asia) Consultants Limited (Mannings) Environmental Team (ET) – Cinotech Consultants Limited (Cinotech) Independent Environmental Checker (IEC) – ANewR Consulting Limited (ANewR) Contractor – Sang Hing – Kuly Joint Venture (SKJV)

1.7 The Organizational Structure for Environmental Management is shown in **Figure 3**.

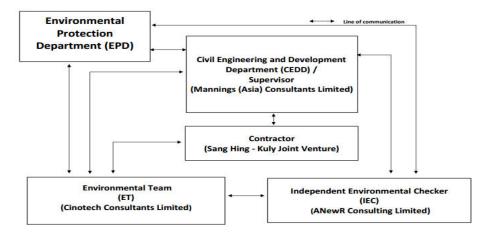


Figure 3 Organization Structure (Environmental Aspects)

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

Table 1.1 Key Project Contacts				
Party	Role	<b>Contact Person</b>	Phone No.	Fax No.
CEDD	Project Proponent	Mr. Chu Wai Lun, Thomas	2417 6370	2412 0358
Mannings	Supervisor Representative	Mr. Simon Ng	3168 2028	3168 2022
Cinotech	Environmental Team	Dr. Priscilla Choy	2151 2089	3107 1388
		Ms. Ivy Tam	2151 2090	
ANewR	Independent Environmental Checker	Mr. Adi Lee	2618 2836	3007 8648
SKJV	Contractor	Mr. Michael Wan	9222 3089	N/A

Table 1.1	<b>Key Project Contacts</b>
1 abic 1.1	Rey Hojeet Contacts

# Construction Activities undertaken during the Reporting Month

- 1.9 The major site activities undertaken in the reporting month included:
- Site Clearance in Portions A, B, C, D, E, F, G, H, I and N;
- Construction of wheel washing facilities in Portions B, C, E and F;
- Ground investigation in Portions D, E, H and J;
- Construction of RC structure and public toilet in Portion L;
- Tree felling in Portions A, B, C, D, E, F, G, H, I and N;
- Construction of retaining wall in Portions A, C, E and K;
- Construction of subway in Portions B and I;
- Utilities diversion works in Portions A, B, C, D, E, F, G, H and N;
- Earthworks and drainage works, utilities laying in Portions A and B;
- Construction of rectangular channel in Portion E; and
- Construction of project signboards in Works Area 3.

1.10 The construction programme showing the inter-relationship with environmental protection/mitigation measures are presented in **Table 1.2**.

# Table 1.2Construction Programme Showing the Inter-Relationship with<br/>Environmental Protection/Mitigation Measures

Construction Works	Major Environmental Impact	Control Measures
As mentioned in Section 1.8	Noise, dust impact, water quality and waste generation	<ul> <li>Sufficient watering of the works site with active dust emitting activities</li> <li>Properly cover the stockpiles</li> <li>On-site waste sorting and implementation of trip ticket system</li> <li>Appropriate desilting/sedimentation devices provided on site for treatment with valid Discharge License before discharge</li> <li>Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall</li> <li>Use of quiet plant and well-maintained construction plant</li> <li>Provide movable noise barrier</li> <li>Proper wheel washing for construction vehicles before leaving the site</li> <li>Provide sufficient mitigation measures as recommended in Approved EM&amp;A Manual/Lease requirement</li> </ul>

# Summary of EM&A Requirements

1.11 The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:

All monitoring parameters; Action and Limit levels for all environmental parameters; Event and Action Plans; Environmental mitigation measures, as recommended in the EIA Reports, Environmental Review Reports and EM&A Manuals

- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 8 of this report.
- 1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required noise monitoring and audit works for the Project in 1 28 February 2017.

# 2 AIR QUALITY

#### **Monitoring Requirements**

- 2.1 According to the approved EM&A Manuals for Stage 1 works and Stage 2 works in Year 2015, no air quality monitoring is required for the Project.
- 2.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix G**.

### **3 WATER QUALITY**

#### **Monitoring Requirements**

- 3.1 According to the approved EM&A Manuals for Stage 1 works and Stage 2 works in Year 2015, no water quality monitoring is required for the Project.
- 3.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of water quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix G**.

## 4 NOISE

#### **Monitoring Requirements**

- 4.1 In accordance with approved EM&A Manuals for Stage 1 works in Year 2015, no noise impact monitoring is required for Stage 1 works of the Project.
- 4.2 According to approved EM&A Manual for Stage 2 works (Year 2015), construction noise monitoring was conducted to monitor the construction noise arising from the construction activities under the Stage 2 works of the Project. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix B** shows the established Action and Limit Levels for the environmental monitoring works.

#### **Monitoring Locations**

4.3 Noise monitoring was conducted at 6 designated monitoring stations (N1, N2, N3, N5, N6 and N7) in the reporting month. Figures 2a - 2c shows the locations of these stations.

Tuble 4.1 Toble Monitoring Stations			
<b>Monitoring Stations</b>	Locations	Location of Measurement	
N1	HKMLC Wong Chan Sook Ying Memorial School	Rooftop (about 5/F) area	
N2	Bethel High School	Rooftop (about 4/F) area	
N3	No. 159 Mai Po San Tsuen	G/F area	
N5	Block 2, Dills Corner Garden	G/F area	
N6	Home of Loving Faithfulness	Rooftop (about 3/F) area	
N7	Village House in Shek Wu Wai	G/F area	

Table 4.1Noise Monitoring Stations

# Monitoring Equipment

- 4.4 Integrating Sound Level Meter was used for impact noise monitoring. The meters are Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level ( $L_{eq}$ ) and percentile sound pressure level ( $L_x$ ) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications.
- 4.5 Acoustic Calibrator was used to check the accuracy of the sound level meter. The calibrators generate a continuous and highly stable sound pressure level at known frequency of 1 kHz that also complied with IEC 942: 1988 Class 1 specifications. Table 4.2 summarizes the noise monitoring equipment in reporting period. Copies of calibration certificates are provided in Appendix C.

Equipment	Model and Make	Qty.
Integrating Sound Level Meter	SVAN 957	1

Acoustic Calibrator	SV30A	1
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#### Monitoring Parameters and Frequency

4.6 **Table 4.3** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

Monitoring Stations	Parameter	Period	Frequency	Measurement
N1				Façade
N2	L <sub>eq</sub> (30 min.) dB(A) L <sub>10</sub> (30 min.) dB(A) L <sub>90</sub> (30 min.) dB(A)	) on normal	Once per week	Façade
N3				Free Field
N5				Free Field
N6				Façade
N7				Free Field

 Table 4.3
 Frequency and Parameters of Noise Monitoring

#### Monitoring Methodology and QA/QC Procedures

- 4.7 The monitoring procedures are as follows:
  - The monitoring station were normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
  - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
  - The battery condition was checked to ensure the correct functioning of the meter.
  - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
    - frequency weighting: A
    - time weighting : Fast
    - measurement time : 30 minutes
  - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement was required after re-calibration or repair of the equipment.
  - At the end of the monitoring period, the  $L_{eq}$ ,  $L_{90}$  and  $L_{10}$  were recorded. In addition, noise sources were recorded on a standard record sheet.
  - Noise measurement would be paused temporarily during periods of high intrusive noise if possible and observation would be recorded when intrusive noise was not avoided.
  - Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. supplementary monitoring would be provided to ensure sufficient data would be obtained.

#### Maintenance and Calibration

4.8 The microphone head of the sound level meter and calibrator were cleaned with a soft

cloth at quarterly intervals.

- 4.9 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 4.10 Immediately prior to and following each noise measurement, the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

#### **Results and Observations**

- 4.11 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. The summary of exceedance record in the reporting month is shown in **Appendix F**.
- 4.12 The baseline noise level and the Noise Limit Level at each designated noise monitoring stations are presented in **Table 4.4**.
- 4.13 Noise monitoring results and graphical presentations are shown in Appendix E.

Monitoring Stations	Locations	Other Noise Source(s)
N1	HKMLC Wong Chan Sook Ying Memorial School	Road traffic noise Noise from daily school activities
N2	Bethel High School	Road traffic noise Noise from daily school activities
N3	No. 159 Mai Po San Tsuen	Road traffic noise
N5	Block 2, Dills Corner Garden	Road traffic noise
N6	Home of Loving Faithfulness	Road traffic noise Noise from activities at the premise and workshops near the premise
N7	Village House in Shek Wu Wai	Road traffic noise Noise from activities a workshops near the village house

4.14 The other noise sources identified which might affect the noise monitoring results at the designated noise monitoring stations are as follows:

Table 4.4	Baseline Noise	Level and Noise Limi	t Level for Monitoring Stations
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Station	Baseline Noise Level, dB (A)	Noise Limit Level, dB (A)
N1	62.2 (at 0700 – 1900 hrs on normal weekdays)	70* (at 0700 – 1900 hrs on
N2	55.2 (at 0700 – 1900 hrs on normal weekdays)	

N3	68.8 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
N5	70.7 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
N6	72.0 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
M7	70.7 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)

(\*) Noise Limit Level is 65 dB(A) during school examination periods.

#### 5 COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

5.1 The EM&A data was compared with the predictions in EIA Report (Year 2009) and Environmental Review Report (ERR) for Stage 2 Works (Year 2015) as summarized in **Table 5.1**.

Stations	Predicted Mitigated Construction Noise Levels in EIA (2009), dB(A)	Predicted Mitigated Worst Case Construction Noise Levels in ERR for Stage 2 (2015), dB(A)	Reporting Month (Feb 17), Leq (30min) dB(A)
N1 - HKMLC Wong Chan Sook Ying Memorial School	55-62	62 <sup>(1)</sup>	60.3 - 61.3
N2 – Bethel High School	57-64	64 <sup>(1)</sup>	58.3 - 61.8
N3 – No. 159 Mai Po San Tsuen	70-73	74 <sup>(2)</sup>	67.8 - 72.7
N5 – Block 2, Dills Corner Garden	73-75	75 <sup>(2)</sup>	63.1 - 70.2
N6 – Home of Loving Faithfulness	64-73	74 <sup>(1)</sup>	69.8 - 70.7
N7 – Village House in Shek Wu Wai	N/A <sup>(3)</sup>	70 <sup>(2)</sup>	67.3 - 70.7

Table 5.1	Comparison	of N	oise	Monitoring	Data	with	Predictions	in	EIA
<b>Report and E</b>	RR								

Remark:

(1) With adoptions of quiet PMEs, temporary noise barrier and enclosure

(2) With sub-grouping of construction activities

(3) No construction noise level was predicted in EIA Report (2009)

- 5.2 The noise monitoring results in the reporting month at monitoring stations (N3 and N5) were lower than the predicted mitigated construction noise levels in the EIA Report. The noise monitoring results at N1, N2 and N6 in the reporting month were within the range of predictions in the EIA Report.
- 5.3 The noise monitoring results in the reporting month at monitoring stations (N1, N2, N3, N5 and N6) were lower than the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works. The noise monitoring results at N7 in the reporting month were slightly higher than the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works

#### 6 ECOLOGY AND FISHERIES

- 6.1 In accordance with the EM&A Manuals for Stage 1 and Stage 2 works in Year 2015, no specific ecological or fisheries monitoring is required during the construction phase of the Project.
- 6.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of ecology and fisheries mitigation measure. The summaries of site audits are attached in **Appendix G**.

#### 7 LANDSCAPE AND VISUAL IMPACT

- 7.1 In accordance with the EM&A Manuals for Stage 1 and Stage 2 works in Year 2015, regular audits should be carried out to ensure all the recommended landscape and visual mitigation measures in EIA Report, Environmental Review Reports and EM&A Manuals were effectively implemented.
- 7.2 ET Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measure. The summaries of site audits are attached in **Appendix G**.

#### 8 ENVIRONMENTAL AUDIT

#### Site Audits

- 8.1 Site audit was carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix G**.
- 8.2 Site audits were conducted on 8, 15, 21and 28 February 2017 in the reporting month. IEC joint site inspection was conducted on 21 February 2017. No non-compliance was observed during the site audit.

#### **Review of Environmental Monitoring Procedures**

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

Noise Monitoring

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

#### **Statues of Environmental Licensing and Permitting**

**8.4** All permits/licenses obtained for the Project are summarized in **Table 10.1**.

<b>Table 10.1</b>	Summary of Environmental Licensing and Permit Status	
	Valid Period	

Permit No.	Valid Period		Details	Status	
Permit No.	From	То	Details		
<b>Environmental Permi</b>	t (EP)				
EP-450/2013/A 25/08/ 15 N/A		N/A	Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 1	Valid	
EP-501/2015	02/09/ 15	N/A Associated Supporting Facilities from Shall		Valid	
<b>Billing Account for Con</b>	Billing Account for Construction Waste Disposal				
A/C No.: 7025411 N/A N/A		N/A	Billing Account for construction waste disposal under Waste Disposal (Charges for Disposal of Construction Waste) Regulation	Valid	
Effluent Discharge Lice	nse				
Application in Progress					
Registration of Chemical Waste Producer					
Application in Progress					
<b>Construction Noise Perr</b>	nit (CNP)				
N/A					

#### **Status of Waste Management**

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

#### **Implementation Status of Environmental Mitigation Measures**

- 8.7 According to the Environmental Review Reports, Environmental Permits and the EM&A Manuals of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix I**.
- **8.8** During site inspections in the reporting month, no non-conformance was identified. The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 10.2**.

Parameters	Date	Observations and Recommendations	Follow-up
	17, 24 Jan and 8 Feb 2017	Silt and sediment in wheel washing bay in Portion A should be properly and regularly removed.	Rectification/improvement was observed during the follow-up audit session.
Water Quality	21 and 28 Feb 2017	Water inside the wheel washing bay of Portion A is observed silty. The Contractor is reminded to clear the water regularly to increase the efficiency of wheel washing	Follow up actions will be reported in the next month.
	21 and 28 Feb 2017	To provide frequent water spray to unpaved area in Portion K.	Follow up actions will be reported in the next month.
28 Feb 2017		Tarpaulin coverage should be provided to the stockpiles in Portions A, C and Works Area 3 for dust suppression.	Follow up actions will be reported in the next month.
Air Quality         17, 24 Jan and 8 Feb 2017           24 Jan and 8 Feb 2017	and 8 Feb	Dust on haul road next to entrance of Portion A and C should be cleared.	Rectification/improvement was observed during the follow-up audit session.
	Water spraying should be provided more frequently to haul roads in Portion C for dust suppression.	Rectification/improvement was observed during the follow-up audit session.	
	24 Jan and 8 Feb 2017	Dust on haul roads in Portion A and Portion C should be cleared.	Rectification/improvement was observed during the follow-up audit session.
Noise	N/A	There was no observation in the reporting period.	N/A
,		Rubbish bins in Portion K should be maintained more frequently.	Rectification/improvement was observed during the follow-up audit session.
Management	15 Feb 2017	Drip tray should be provided to chemical container in Portion K and Works Area 3.	Rectification/improvement was observed during the follow-up audit session.

 Table 10.2
 Observations and Recommendations of Site Audit

Parameters	Date	<b>Observations and Recommendations</b>	Follow-up
	21 and 28 Feb 2017	To clear the oil stain in unpaved area in Portion K.	Follow up actions will be reported in the next month.
	28 Feb 2017	Drip tray should be provided to chemical containers in Portion K.	Follow up actions will be reported in the next month.
	13, 17, 24 Jan, 8 and 15 Feb 2017Oil stain under excavator in WA3 should be properly removed as chemical waste.24 Jan, 8 and 		Rectification/improvement was observed during the follow-up audit session.
			Rectification/improvement was observed during the follow-up audit session.
Ecology and Fisheries	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	24 Jan, 8 and 15 Feb 2017	Fencing of tree protection zones in Portion A, Works Area 3 and Portion K should be enhanced to protect existing trees. Construction materials should not be placed within tree protection zones.	Rectification/improvement was observed during the follow-up audit session.
Permits/ Licenses	N/A	There was no observation in the reporting period.	N/A

#### **Implementation Status of Event and Action Plans**

8.9 The Event and Action Plan for noise is presented in **Appendix H**.

#### Construction Noise

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

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

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

#### 9 FUTURE KEY ISSUES

- 9.1 Major site activities undertaken for the coming two months include:
- Site clearance in Portions A, C, D, F, G, H and N;
- Construction of wheel washing facilities in Portions B;
- Ground investigation in Portions D, E, H and J;
- Construction of RC structure and public toilet in Portion L;
- Tree felling in Portions A, C, D, F, G, H and N;
- Construction of retaining wall in Portions A, C, E and K;
- Construction of subway in Portions B and I;
- Construction of rectangular channel in Portion E;
- Utilities diversion works in Portion A, B, C, D, E, F, G, H and N;
- Construction of project signboards in WA3; and
- Roads Works in Portions A, B, E and K.

#### Key Issues for the Coming Month

- 9.2 Key environmental issues in the coming months include:
  - Wastewater and runoff generation on-site;
  - Regular removal of silt, mud and sand along u-channels and inside sedimentation tanks;
  - Review and implementation of temporary drainage system for the surface runoff;
  - Noise from operation of the equipment, especially for excavation works and machinery on-site;
  - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and other dust-generating activities;
  - Water spraying for dust generating activities and on haul road;
  - Proper storage of construction materials on-site;
  - Storage of chemicals/fuel and chemical waste/waste oil on-site;
  - Accumulation of general refuse and construction waste on-site; and
  - Protection measures for retained trees.
- 9.3 The tentative program of major site activities and the impact prediction and control measures for the coming months, i.e. March 2017 to April 2017, are summarized as follows:

Construction Works	Major Impact Prediction	Control Measures
As mentioned in Section 9.1	Air quality impact (dust) Water quality impact (surface run-off)	<ul> <li>(a) Frequent watering of haul road and unpaved/exposed areas;</li> <li>(b) Frequent watering or covering stockpiles with tarpaulin or similar means; and</li> <li>(c) Watering of any earth moving activities.</li> <li>(d) Diversion of the collected effluent to de-silting facilities for treatment in compliance with valid Discharge License prior to discharge to public storm water drains;</li> <li>(e) Provision of adequate de-silting facilities for treating surface run-off and other collected</li> </ul>

Noise impact	<ul> <li>effluents prior to discharge;</li> <li>(f) Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and</li> <li>(g) Provision of measures to prevent discharge into the stream.</li> <li>(h) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation;</li> <li>(i) Controlling the number of plants use on site;</li> <li>(j) Regular maintenance of machines</li> <li>(k) Use of quiet PMEs on-site; and</li> <li>(l) Use of acoustic barriers and noise enclosure if necessary.</li> </ul>
Landscape and Visual	(m) Proper setup of precautionary area for retained trees.

# Monitoring Schedule for the Next Month

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

#### **10 CONCLUSIONS AND RECOMMENDATIONS**

#### Conclusions

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

#### Construction Noise Monitoring

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

#### Site Audit

10.3 4 times of ET joint weekly environmental site inspection was conducted in the reporting month.

#### Complaint and Prosecution

- 10.4 No environmental complaints and environmental prosecution were received in the reporting month.
- 10.5 No environmental prosecution was received in the reporting month.

#### Recommendations

10.6 According to the environmental audit performed in the reporting month, the following recommendations were made:

#### Air Quality

- Water spraying should be provided frequently to unpaved and exposed area, and haul road for dust suppression.
- Site area near site entrance/exit should be kept clear of dust and proper wheel washing facility should be provided for wheel washing before vehicle leaving the site.

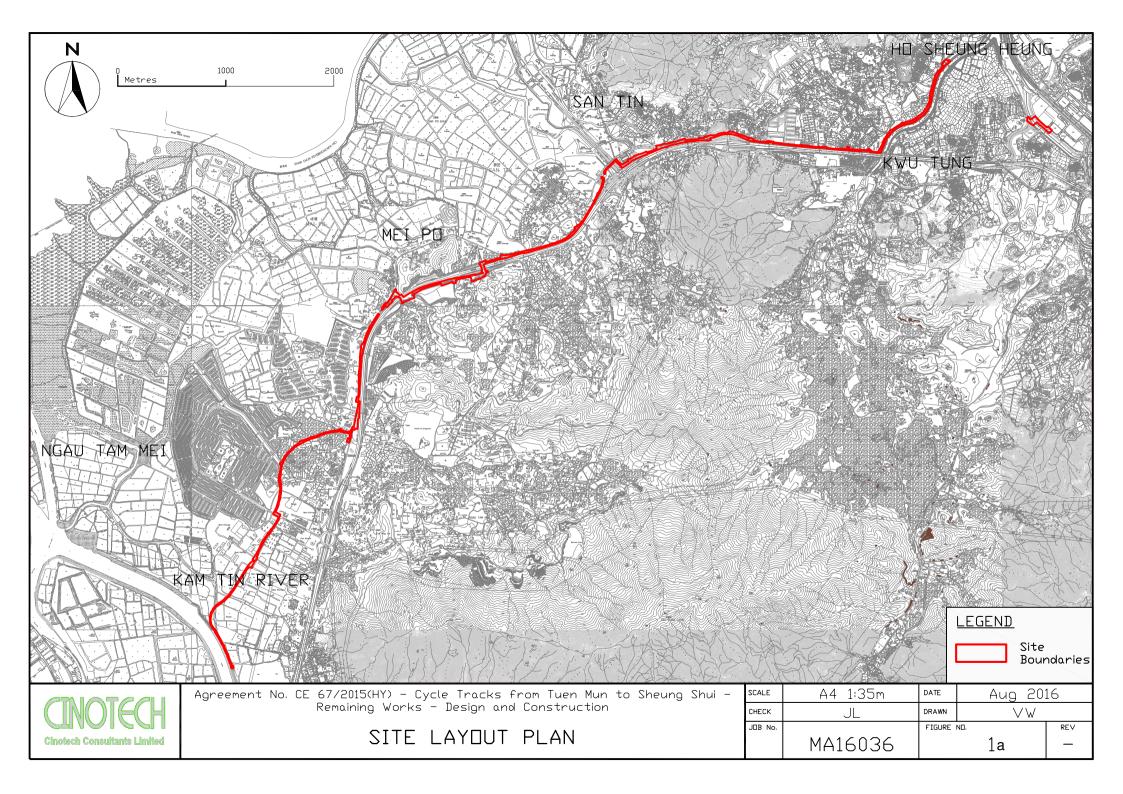
#### Waste/Chemical Management

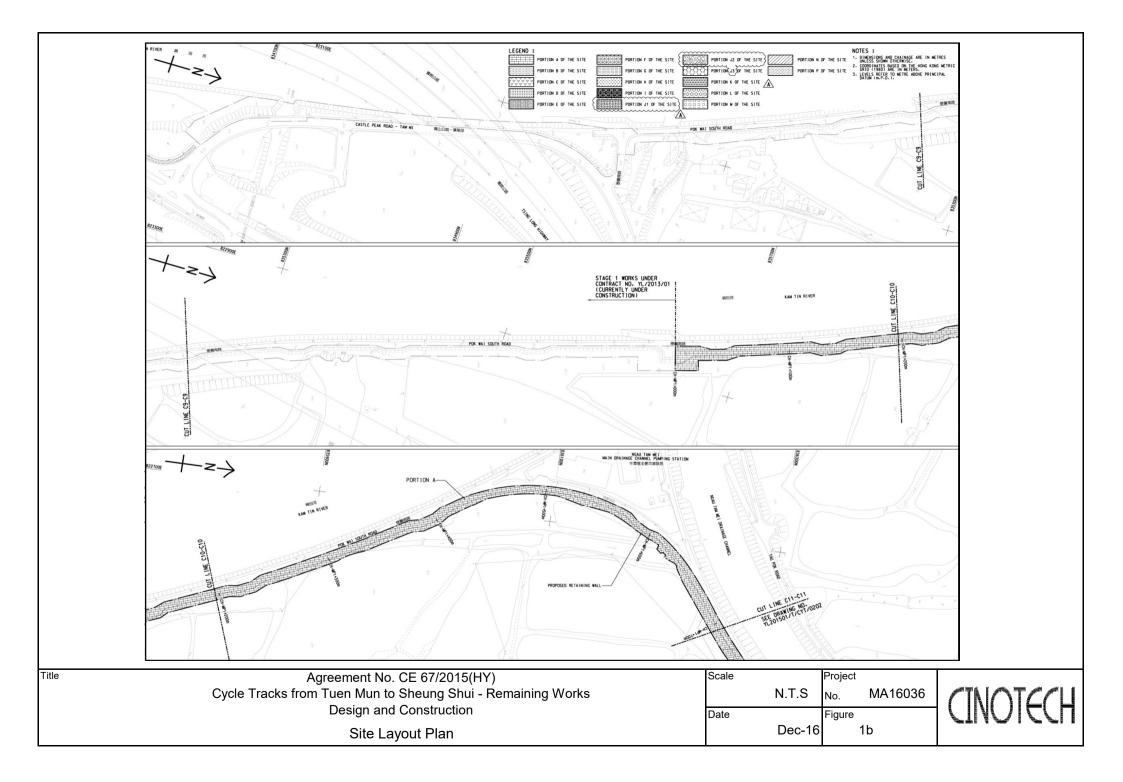
- General refuse should be removed regularly to prevent accumulation on-site. Proper enclosed bin should be provided with maintenance for collection of general refuse from workforce.
- Drip tray should be provided to oil/chemical containers and generator to avoid oil leakage. Any oil stain observed on ground should be properly removed as chemical waste.

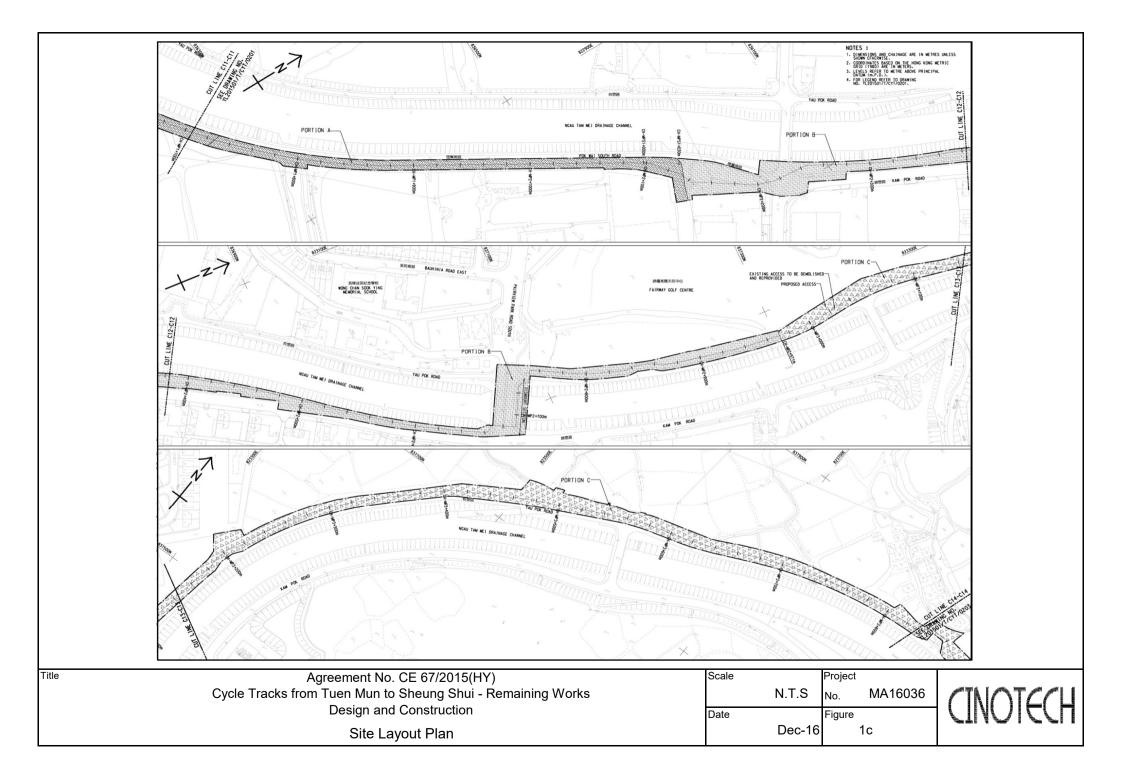
#### Landscape and Visual

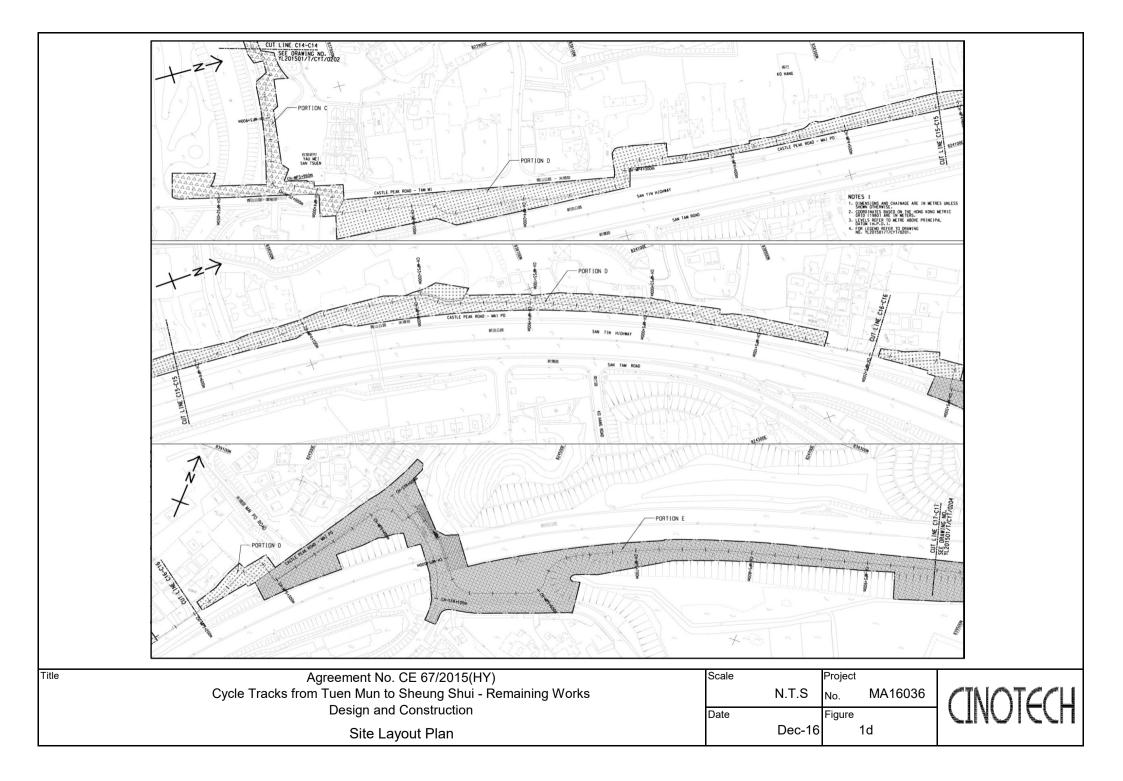
• Proper tree protection zone should be set for retained trees to avoid damage.

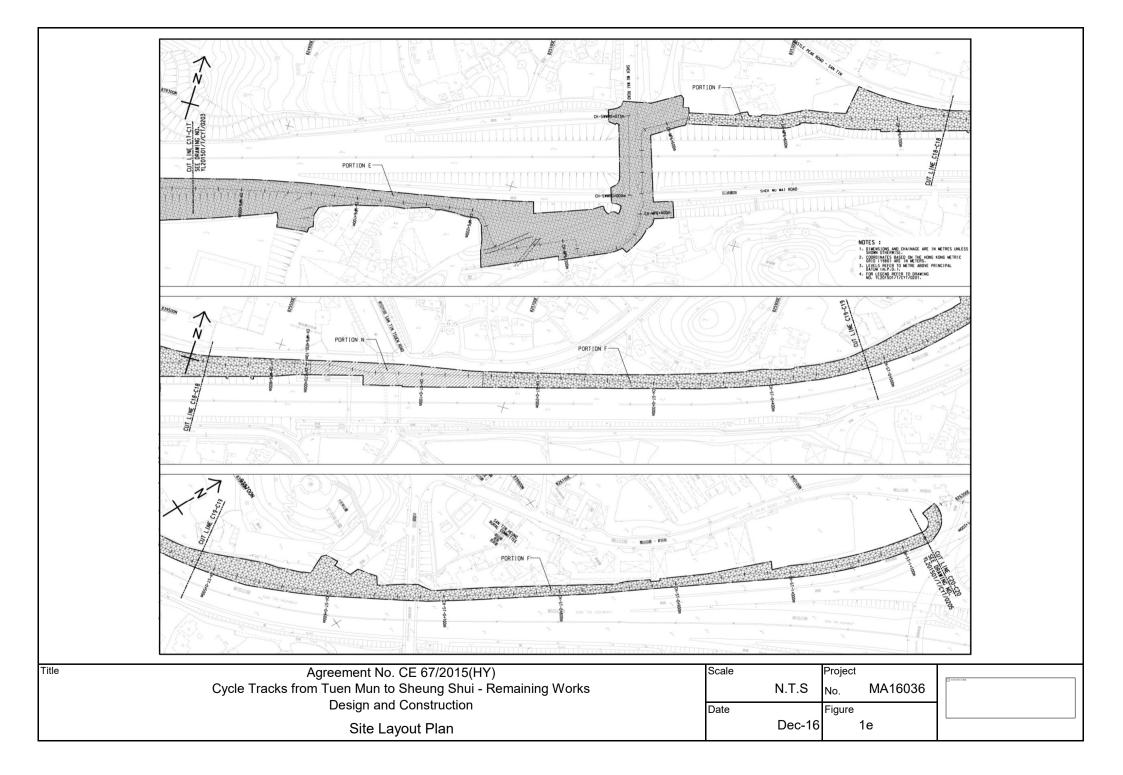
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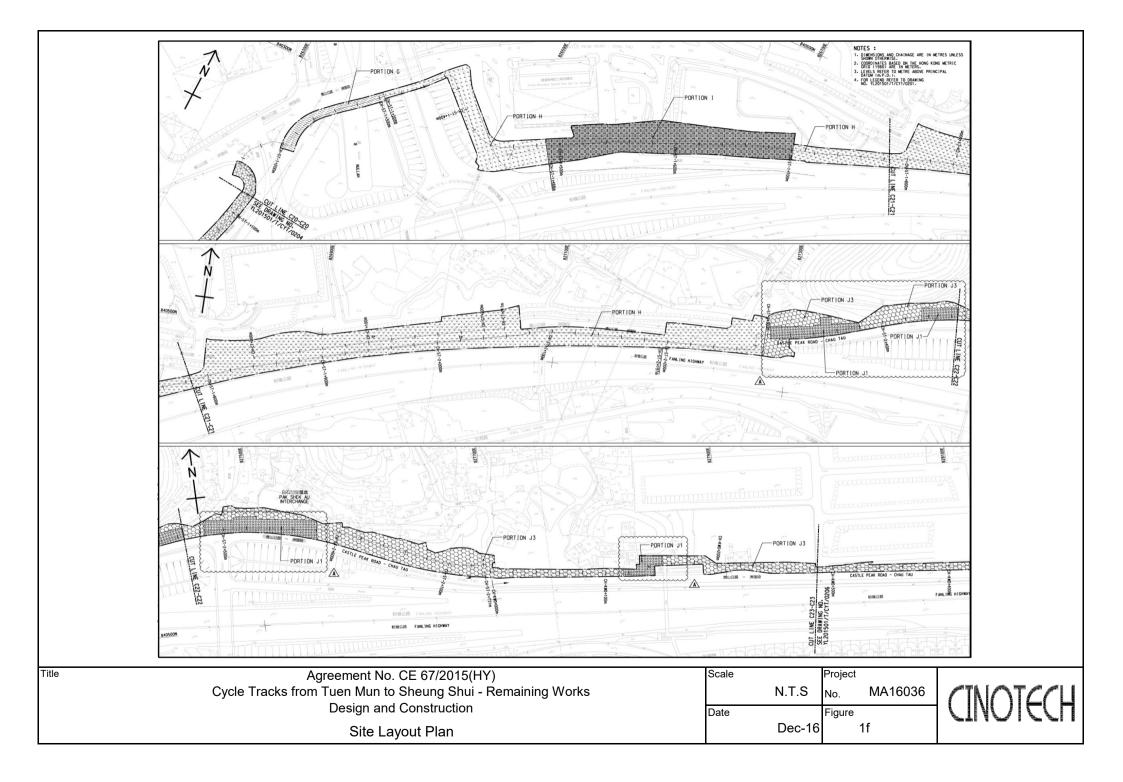


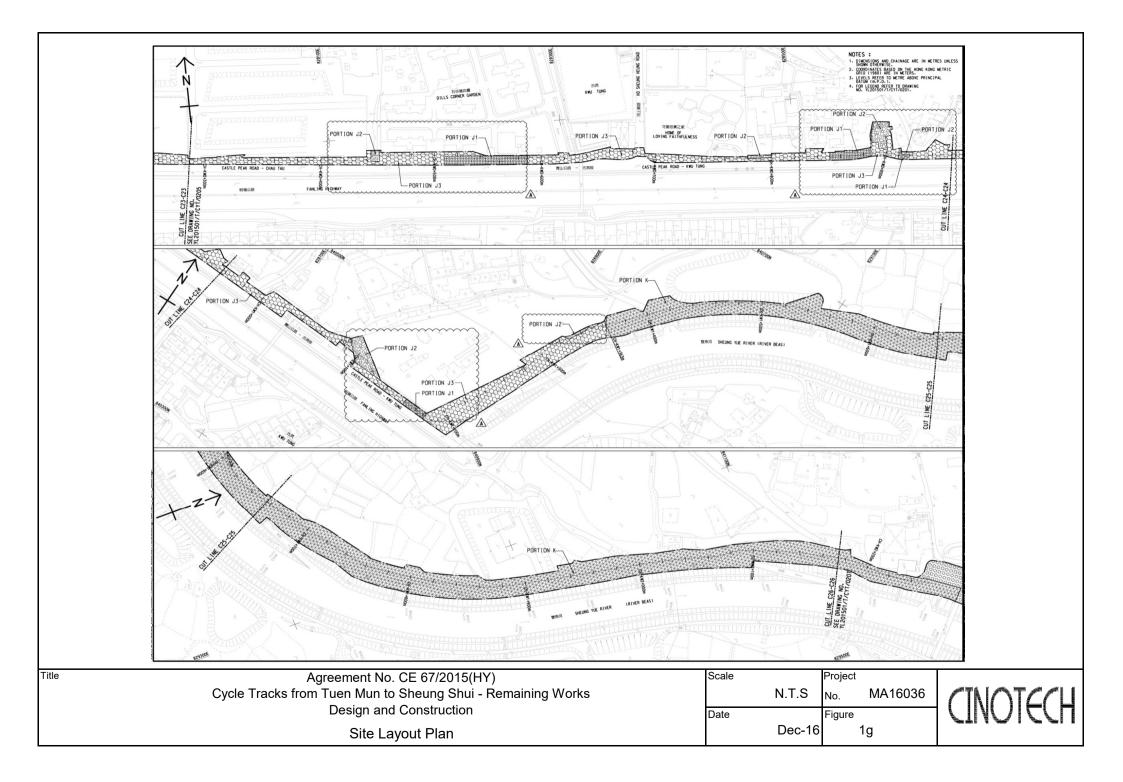


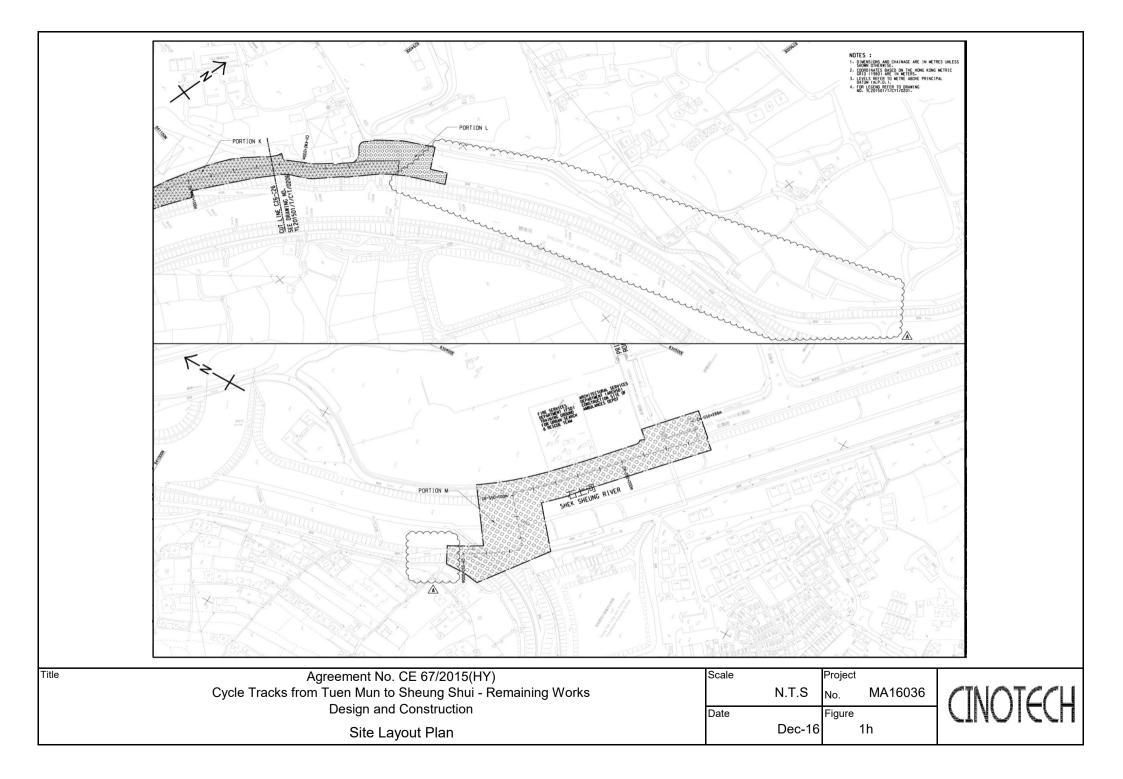


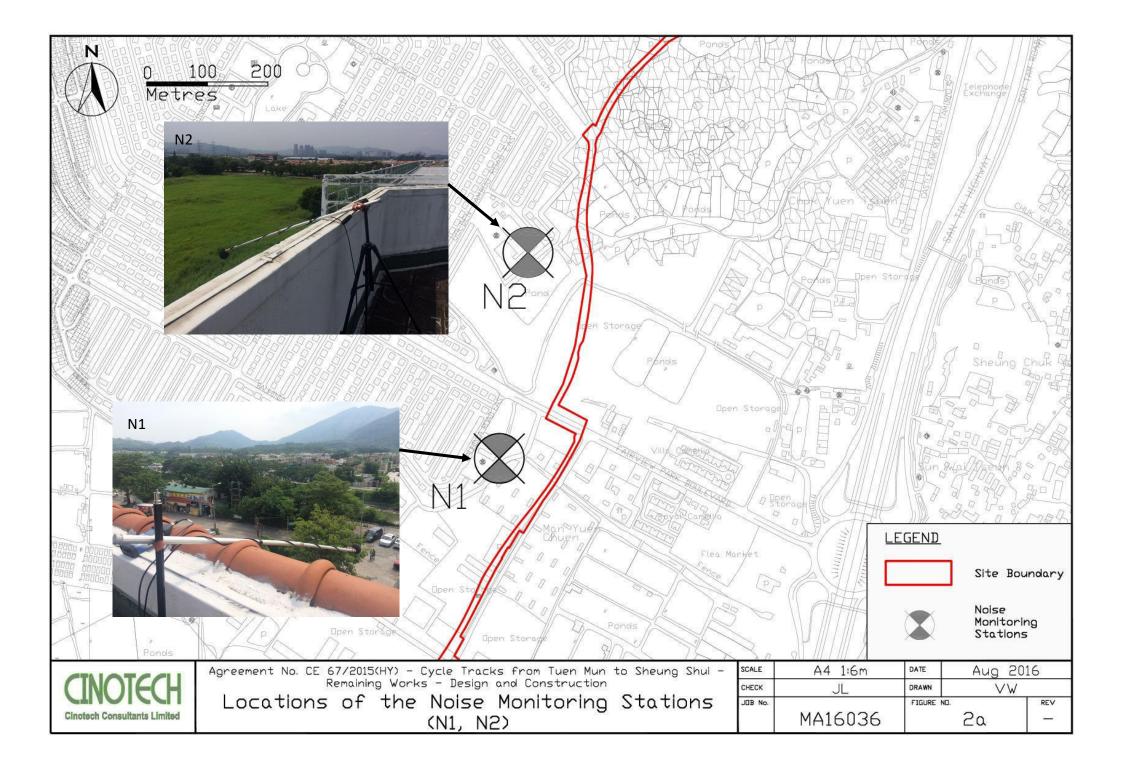


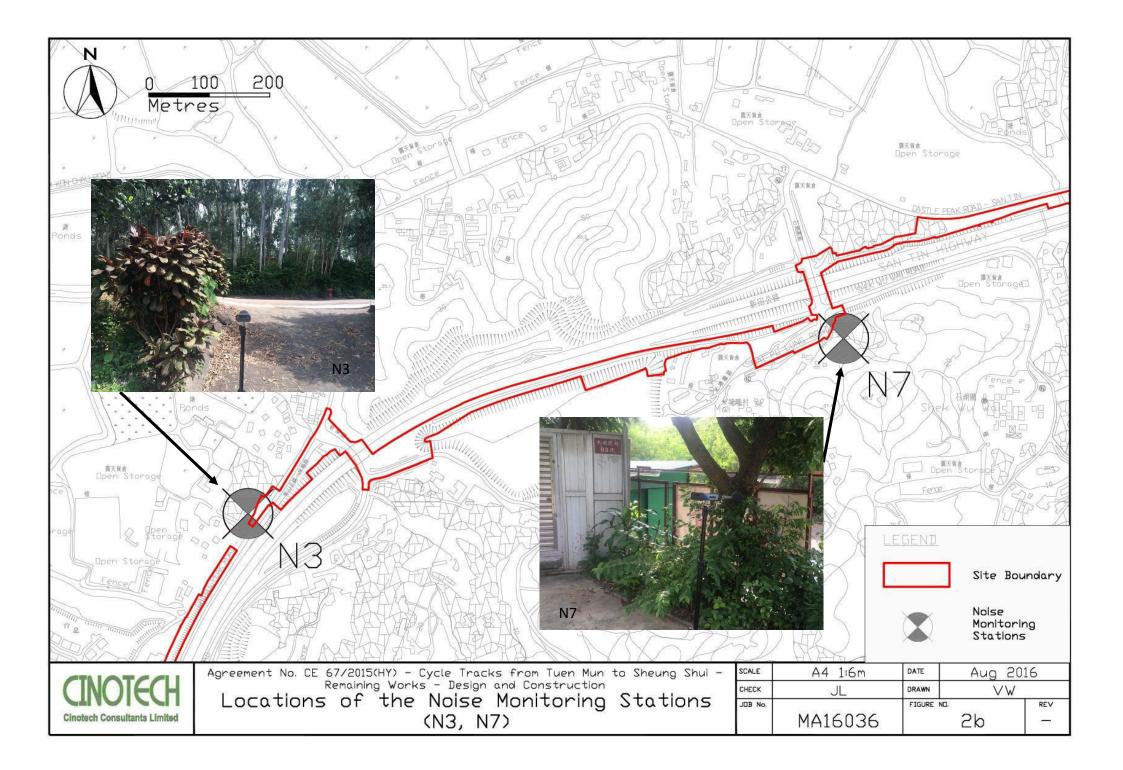


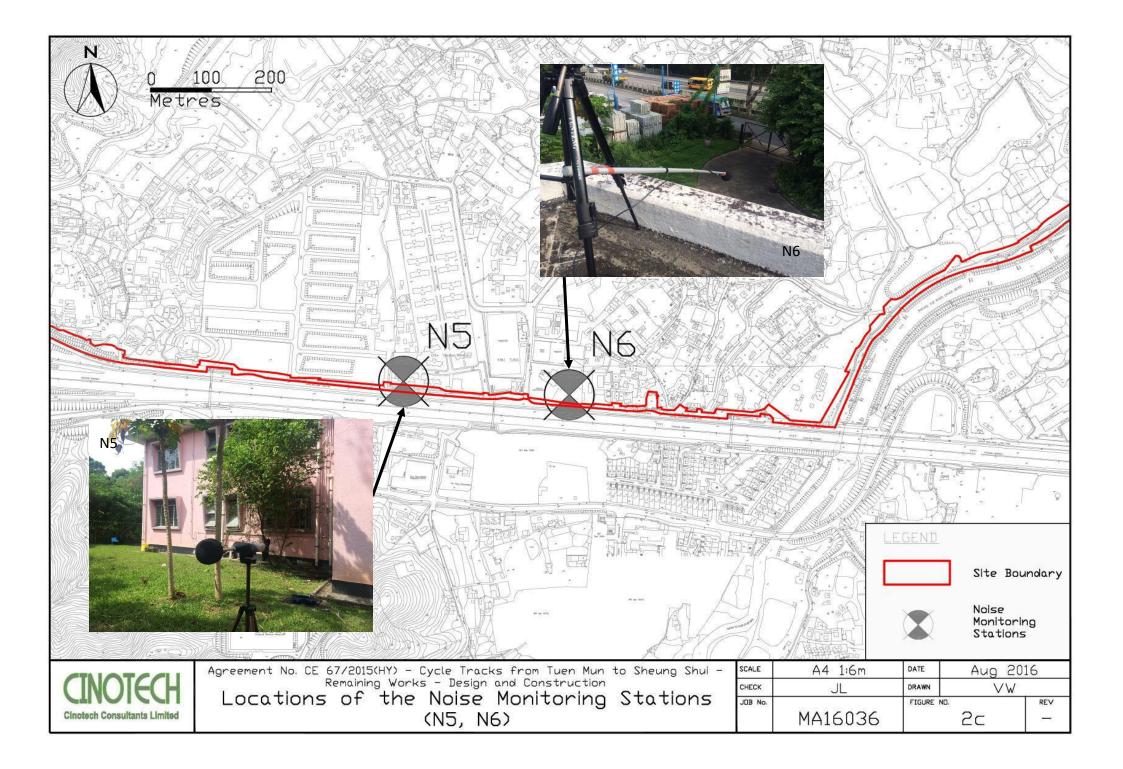












APPENDIX A WORK PROGRAMME

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BAY PW10 WITH PUMP HOUSE	90 days 7 day	s Wed 168/17	Mon 13/11/17	0 days			<b>*</b>			
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RETAINING WALL - RW 11A (508)	50 days 5 days	Wed 30.5/18	Wed 18/7/18	0 days				🎽		
RETAINING WALL - RW 118 ; BAY1 - BAY6 (604)	55 days 5 days	Fri 9/2/18	Wed 4/4/18	0 days			1			
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#### CEDD CONTRACT NO. YL/2015/01 MAINING WORKS

	Duration: Time Risk Early Start Allongince	Early Finish Fic		
RAMP PRI CONSTRUCTION	(days) 80 days 7 days Thu 14/	12/17 Sat 3/3/18		
PROVIDE SAFETY ACCESS TO RESIDENT	21 days 2 days Sun 4	118 Sat 243/18	O days	
DEMOLITION OF EXISTING STRUCTURE	14 days 2 days Sun 25	/3/18 Sol 7/4/16		5 5 6
RW16A (50%)	120 days 10 days Wed 16	ve/17 V/ed 13/12/17	o days	1
EARTHWORKS AND DRAMAGE WORKS, UTILITIES LAYING (F	262 days 30 days Wed 3	1/18 Fri 21/9/16		e k L
ROAD WORKS	125 days 14 days Sat 22	9/18 Thu 24/1/19	0 days	l L
COMPLETION OF PORTION D	0 days Thu 24	1/19 Thu 24/1/19	<u> </u>	
COMPLETION OF SECTION WI	Q days Thu 24	1/19 Thu 24/1/19		
SECTION W2 (PORTION E, F, G, H, I & N)	1120 days days Thu 30	6/16 Wed 24/7/19		
STARTING DATE OF CONTRACT	0 days Thu 30			
APPLICATION FOR INDIVIOUAL EXCAVATION PERMIT FOR SECTION W2	160 days 14 days Thu 30			
	1120 days days Thu 30.		0 days	
POSSESION OF SITE	0 days Sun 2&			
INITIAL SURVEY	65 days 5 days Mon 29			
TREE SURVEY	65 days 5 days Wed 2/		0 days	
TREE FELLING/TRANSPLANTING AND SITE CLEARAIXCE	50 days 5 days Fri 6/1			
	200 days 14 days Mon 29			
	45 days Fri 20			
SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days 2 days Fri 20'		3 dzys	
	21 days 2 days Fri 107		3 days	
TIMPREPARATION	76 days 7 days Thu 30'		83 60/5	
	90 days 7 days Wed 14			
	60 days 5 days Mon 29.	8/15 Thu 27/10/16	99 days	
APPROVAL OF TOWP BY SUPERVISOR DSD	30 days 3 days Fit 28/1	D'16 Sal 26/11/16	99 days	
NP 5+465 - NP 5+516 (WORKS AFFECTING NESTING BIRD)	100 days Mon 6/	3/17 Tue 13/6/17	O daya	
RETAINING WALL - RW DO2 & DO4 (60M)	100 days 7 days Mon 64	917 Tus 138/17	Odays Odays	
MP 6+615 - MP 5+695	200 days Wed 14	16/17 Sat 30/12/17	0 days	
RETAINING WALL - RV DOS & DOS (504)	60 days 7 days Wed 14	19/17 Fri 145/17 .	Odays	
RETAILING WALL - RW DO? (70M)	120 days 10 days Sat 29	17 Sal 30/12/17		e é
	175 days Sun 31/	2/17 Sat 23/6/(8	0 days	6 6
1	30 days 3 days Sun 31/1	1		6 6 1
	45 days 4 days Tua 30		O days	
	53 days 5 days Fri 160	1	0 days	
	32 days 3 days Tue 85	1	0 days 0 da	
		· · · ·		1
REALIGNMENT SAN (AM ROAD		i		
MP 84500 - MP 67020	136 days Sun 24		ð daga	
RETARTING WALL - KW DID (TISN)	136 days 10 days Sun 24			
	170 days Wed 7/1		0 days	
RETARING WALL - RW DID (50%)	60 days 7 days Wed 7/1		O days	
	50 daya 8 days Sal 28		O daya	
	SO days 8 days Fri 26/4	V19 Wed 247/19	O days and the second	
l l	180 days Hon 57	917 Fri 1/9/17		
RETAINING WALL - RW D25 & D25 (100M)	160 days 14 days Mon 64	V17 Fit 1/9/17	o daya haraka	
MP 6+020 - MP 6+510	216 days Sat 2/9	217 Thu 6/4/18		
BOX CULVERT D7	30 days 3 days Sun 31/1	2/17 #3on 29/1/18		
ECESSARY)	120 days 10 days Sat 2/9	/17 Sat 30/12/17	Ò daya	1
ROAD WORKS FOR REALIGIZATION	45 daya 4 days Tue 30'	1/18 Thu 15/3/18	Ūdaja	
REALIGRIMENT SHEK WU WAI ROAD	21 days 2 days Fri 160	V16 Thu 5/4/18	O days	1
MP 6+020 - MP 6+160	245 daya Fri 10/2			4
RETABAING WALL - RW D18 (SSM)	125 days 10 days Fn 104	i I		
	120 days 10 days Thu 13/1			
MP 6+160 - MP 5+230 RETAINING WALL - RW D19A, B (53/0)	126 days Fil 6/4 76 days 7 days Fil 6/4	18 Thu 9/8/18 18 Wed 20/6/18	0 days 0 days	
	50 days 5 days Thu 21/		the second s	
AIP 6+239 - MP 6+330	455 days F1i 6/1	/17 Thu 5/4/18		8
RECTANGULAR CHANNEL	150 days 10 days Fil 6/1	\$7 Sun 4'6/17	O days	
BOX CULVERT DS	45 days 4 days Sat 64	/18 2/on 19/2/18	O days	
RETAINING WALL - RW D21(U) (26M)	50 days 4 days Mon 57	V17 Mon 24/7/17	Odays	
BOX CULVERT DS	45 days 4 days Tuo 20	2/16 Thu 5/4/18	O days	
RETAINING WALL - RW D22 (L) (26%)	45 days 4 days Tua 25/	7/17 Thu 7/9/17	Gágs	
RETAINING WALL - RW D23 (U) (2114)	50 days 4 days Fil 89	17 Fel 27/10/17	Odajs	1
	70 days Sat 28/1	Q/17 Fri 5/1/18	O days	
	70 days 7 days Sat 28/1		0 days	
	104 days Fil 12/4		0.0075	
COMPLETION OF PORTION E	C days Wed 24		0 days	8
				8 2 2
	963 days Thu 30/		650 days 0 days	
POSSESION OF SITE	0 days Sun 27/			
	40 days 4 days Mon 28			
	40 days 4 days Mon 28/	1	0 days	
TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days 5 days Sat 7/1	/17 Yua 7/3/17	0 days	
		· · · · · · · · · · · · · · · · · · ·		
Task Exercise Missions	Pro	ect Summary	🖅 Etensi Mesiena 🗘 Isavel Task 🖾 Kanada Sunnway Rolug annana Stat-only E Cultal Kinimistan Rolug annana Stat-only	

#### OUTO LOT NO

	dd Contract No. Yl/2015/01 Cle Tracks From Tuen Muni To Sheung Shui - Remaining Works Illing Programme			SANG HING - KULY JOINT VENTU 28 FEB 24
		Duration Time Risk Early Staff Early Firesh Float		
		(days)		ilo.T.N.L.D.J.L
				1
	2 RW 43 (566)			1 1
				9 8 1
	5 EARTH WORKS AND DRAMAGE WORKS, UTILITIES LAYING (F NECESSARY)			
	6 ROAD WORKS (1.3 KM)			
	8 COMPLETION OF PORTION F	0 days Sun 17/2/19 Sun 17/2/19 157 days		
	9 PORTION 6 (CH ST 1+210 - CH ST 1+310)			
	0 POSSESION OF SITE	0 days Thu 30.6/16 Thu 30.6/16 0 days		Ê k
	) BRITING BORGET	60 days 5 days Thu 30 6/16 5 un 28/8/16 389 days		e e L
	2 TREE SURVEY	130 days 10 days 20 20 20 20 20 20 20 20 20 20 20 20 20		L L
	3 TREE FELLING/TRANSPLANTING AND SITE CLEARATICE	120 days 10 days Fri &1/17 Fri &5/17 419 days		
	4 UTILITIES DIVERSION WORKS (HKB & TGT)	150 days 14 days Fri 6/1/17 Sun 46/17 389 days		
	5 PREPARATION OF TOMP FOR PRE-DRILLING WORKS	100 days 10 days Thu 32.6/16 Fri 7/10/16 335 days		
	6 APPROVAL OF TEMP BY SUPERVISOR DSD	14 days 2 dzys Sat 8/10/16 Fd 2 1/10/16 355 days		
	PREDRILLING WORKS FOR PILES	30 days 3 days Sat 20 5/17 Sun 18/6/17 145 days		
	STARTING DATE OF DRY SEASON	0 days Wed 1/11/17 Wed 1/11/17 240 days		
	9 PREBORED H-FILE (8 NOS)	60 days 5 days Wed 1/11/17 \$at 30/12/17 240 days		
	0 LOAD TEST	45 days 5 days Sun 31/12/17 Two 13/2/18 286 days		4
	ABUTIVENT CONSTRUCTION	91 days  7 days Sun 31/12/17   Sat 31/3/16   240 days		
	NECESSARY)			
	3 THEE SORVEY			
Image: Second				
				L L
				k k i
Marcoline				
Image:				
1       Norway	0 HWY 49 (130M)			
1       Normal	1 1007 454 (7201)			
0       0.00000000000000000000000000000000000	2 P(W 408 (36N)			
Image: Subject Disconstruct Disconstruc	3 DW1 8 DW1A (130/)			
Herm         Herm </td <th>4 DW2 (9214)</th> <td>1 10 days 10 days Thu 11/10/18 Mon 28/1/19 0 days</td> <td></td> <td></td>	4 DW2 (9214)	1 10 days 10 days Thu 11/10/18 Mon 28/1/19 0 days		
W         W	5 EARTH YORKS AND DRAWAGE WORKS, UNLITIES LAYING (F NECESSARY)	147 days 14 days Sun 30/12/18 Sat 25/5/19 0 days		
Image: Normal state in the state i		45 days 4 days 5 ot 7/4/18 Mon 25/5/18 0 days		
■         CONVENCION         ● <th< td=""><th></th><td>30 days 3 days Two 22.5/18 Wed 20.6/18 0 days</td><td></td><td>1</td></th<>		30 days 3 days Two 22.5/18 Wed 20.6/18 0 days		1
0       PORTIONER IF ST 125 ····       P0 4 4 ···       P0 4 5 ·	ROAD WORKS	50 days 5 days Sen 26 5/19 Wed 24/7/19 0 days		i
1       Podel Silo (O PTI -       0 dag       m No 2010       Tu Sci (0 - 0 - 0)       1 dag	9 COMPLETION OF PORTION H	0 days Wed 247/19 Wed 247/19 0 days		1
1       Podel Silo (O PTI -       0 dag       m No 2010       Tu Sci (0 - 0 - 0)       1 dag				
1       161 day       14 days       110 30 day       12 days       110 day       14 days       110 30 day       12 days       110 d				
A         Three EVENCE         163 days         14 days         Through 100 days				
NA       THEE FELLING/THM/BELA/TITIG ALOS DIFE CELE/ARX/CE       So drys       2 drys       Fr(0/11       Sid 42/17       Oldys         7       THE FELLING/THM/BELA/TITIG ALOS DIFE CELE/ARX/CE       So drys       2 drys       Fr(0/11       Sid 42/17       Oldys       Addys         70       THIN REFAVA/AIRO/LOV CONSTRUCTION (SAVICE)       Sod drys       5 drys       Take 2/2/17       O drys       5 drys       Take 2/2/17       O drys       5 drys       Take 2/2/17       O drys       Sod drys       160 drys       5 drys       Take 2/2/17       O drys       Sod drys       7 drys       Take 2/2/17       O drys       7 drys       Take 2/2/17       O drys       7 drys       Take 1/2/2/17       O drys       0 drys       O drys       0 drys <th></th> <td></td> <td></td> <td></td>				
75       TIN REFARATION       100 days       44 days       The 221/216       0 days       5 days       1 be 221/217       0 days         76       TIN APPROVAL BY RSSTNLG       60 days       5 days       1 be 221/217       0 days       1 be 221/217				
76       TTI MAPPROVAL BY RSSTALG       60 days       5 days       Twee 201/216       F1 420/17       0 days         77       SUBJECT VI SUBJECTION (SBAYS)       150 days       14 days       S12 52/17       Mon 247/17       0 days         78       RAMP (14 BAYS)       20 days       1 days       Two 257/17       Weight 201/17       0 days         78       RAMP (14 BAYS)       20 days       1 days       Two 257/17       Weight 201/17       0 days         79       F1/15 NIG WORKS AND EAN WORKS AND EAN WORKS AND EAN WORKS (JULITIES LAW RD) (P       60 days       5 days       Two 257/17       Weight 201/17       0 days         76       F1/15 NIG WORKS AND EAN WORKS AND EAN WORKS (JULITIES LAW RD) (P       60 days       5 days       Two 185/16       3/0 days       1       Project 3				
77       SUBRY(NY D WiTH PLADP ROOM CONSTRUCTION (JBAYS)       150 days       14 days       Sal 25/21/7       Mon 24/7/17       0 days         78       RAM.P (14 BAYS)       24 days       21 days       Two 25/7/17       Wed 21/37/8       0 days         79       FINISHING WORKS AND EAM WORKS       60 days       7 days       Two 25/7/17       Wed 21/37/8       0 days         60       FARIPHWORKS AND DRANIAGE WORKS A				
$ \frac{1}{240 \text{ days}} = \frac{1}{240 \text{ days}} \frac{1}{24 \text{ days}} \frac{1}{100 \text{ days}} \frac{1}{100 \text{ days}} \frac{1}{100 \text{ days}} = \frac{1}{100 \text{ days}} \frac{1}{10$				
FINESHAG WORKS AND E&AN WORKS         FO days         P days         The 22/3/18         The 22/3/18         The 22/3/18         The 22/3/18         The 22/3/18         Stop days         P d				с 6 8 6
EARTHWORKS, Until 16 LAVELO (P     Of days     Stars     Thu 223/16     Sun 205/18     STO days     Inu 223/16     Sun 205/18     Store     Inu 223/16     Sun 205/18     Store     Inu 223/16     Sun 205/18     Sun 205/18<				2 1 2
NECCSSARY     Image: Control of the second of				6 1
Task       Office Statumary       Project Statumary       Example Meetons       Atomas Mensor       Atomas Standardy       E       Critical       Example Meetons       Atomas Standardy       E       Critical       E       Critical       E       E       Critical       E       E       Critical       E       E       Critical       E       E       E       E       C       E       C       C       E       C       C       E       C       C	0 EARTHWORKS AND DRAINAGE WORKS, UTILITIE'S LAYING (P NECESSARY)	60 days 5 days Thu 22:3/18 Sun 20:5/18 370 days		
	Task (2000)000000000000000000000000000000000			
			Task leading Summary V Duration only Manual Summary Paishonly 2 Critical Splt	

### CEDD CONTRACT NO. Y1/2015/01 CYCL F TRACKS FROM TUEN MUN TO SHEUNG SHUL - REMAINING WORKS

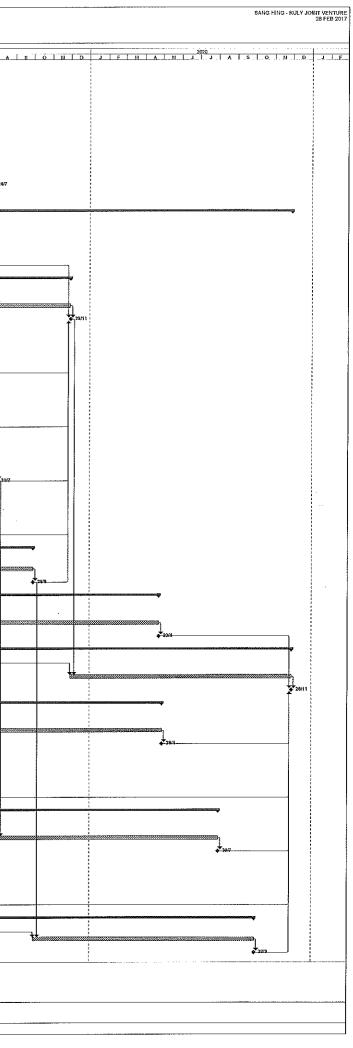
CEDD CONTRACT NO. YU/2015/01 Cycle Tracks From Yuen Mun to Sheung Shui - Remaining Works																SANG HING - KI	OLY JOINT VENTURE 28 FEB 2017
ROLLING PROGRAMME																	
ID Task Hamo	Aßzaance	anfy Start Ea	aty Firish #	Toat	2016		1151		2017			'p	F M A M I I /		J LF M ALMI	2020	
201 ROAD WORKS	(days) 60 days 5 days	Wed 26'6/18	Sat 18/8/18	340 days		1 \$ 1 0   N   D		A.J									
282 COMPLETION OF PORTION I	0 days	Sat 166/18	Sat 15-8/18	340 days				A A A A A A A A A A A A A A A A A A A			<b>↓</b> 18/3						
283 PORTION N (BRIDGE B : CH ST 0.150 - CH ST 1.097)	1097 days	Thu 30/6/16	Mon 1/7/19	23 days	<b>An and an and an and</b>	<u> </u>		1									
284 POSSESION OF SITE	0 days	Thu 30/6/16	Thu 30.6/16	23 days	<b>₩</b> \$0/6												
265 INITIAL SURVEY	60 days 5 days	Thu 30/6/16	Sun 23-8/16	23 days	<b>}</b>	°[	-		-								
265 TREE SURVEY	130 days 10 days	Mon 29/8/16	Thu 5/1/17	23 days		*											
287 TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	⊖0 days 5 days	Fr16/1/17	1,5an 6/3/17	359 days			<b>T</b>										
228 UTILITIES DIVERSION WORKS (HKB, TGT & CLP)	120 days 10 days	Fri 6/1/17	Fri 55/17	339 days			ž.										
289 PRE-DRILLING WORKS FOR PILES	30 days 3 days	Fd 20/1/17	Sat 18/2/17	23 days			Transp-										
290 PILING WORKS (12 NOS)	45 days 4 days	Sun 18/3/18	Tue 1/5/18	23 days					***								
291 LOAD TEST	45 days 4 days	Wed 2/5/16	Fri 15/6/18	69 days							·····						
292 ABUTH/ENT CONSTRUCTION	\$0 days 7 days	Wed 2/5/18	Mon 30/7/18	23 days													
293 OFFSITE FABRICATION OF BRIDGE MEMBER\$	120 days 10 days	Sun 18/3/18	Sun 15/7/16	59 days						9							
294 STEEL TRUSS AND DESK CONSTRUCTION	75 days 7 days	Tuo 21/8/18	Sat 3/11/18	23 days				10000			• • • • • • • • • • • • • • • • • • •						
286 PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	360 days 10 days	Sun 19/2/17	Tuə 13/2/18	190 days													
296 INSTALLATION OF BEARINGS AND MOVENENT JOINTS	21 days 2 days	Tuo 31/7/18	Mon 20/8/18	23 days													
297 EARTHANORKS AND DRAINAGE WORKS, UTILITIES LAYING (IF NECESSARY)	60 days 5 days	Sun 4/11/16	Wed 2/1/19	23 days							The second se						
258 ROADWORKS	€0 days 5 days	Thu 3/1/19	50n 3/3/19	23 days								, and the second se					
299 BRIDGE ASSOCIATED WORKS AND WATERI, WIN WORKS	120 days 10 days	Mon 4/3/19	Mon 1/7/19	23 days									l Č				
309 COMPLETION OF PORTION IN	0 days	Mon 1/7/19	Mon 1/7/19	23 days									•••••	L.			1
301 COMPLETION OF SECTION W2	0 days	i	Wed 24/7/19	0 days									]	2417			
302																	
303 SEGTION W3	944 d.xys	Thu 30/6/16	Tue 29/1/19	0 days	P												8
304 STARTING DATE OF CONTRACT	Q days	Thu 30.6/16	Thu 30-6/16	0 days	<b>\$</b> ∳}30′6												
305 PORTION K (CH KW 1+350 - CH KW 2+070)	\$44 days	Thu 30/6/16	Tue 29/1/19	0 days	<b>P</b>												
306 POSSESION OF SITE	July	Thu 30/6/16	Thu 30/6/16	0 days	\$ 10/6			nij-ferransen									
307 APPLICATION AND OBTAIN APPROVAL FROM MIRC FOR WORKS AT			Mon 26/12/16	273 days	*******		3		<u> </u>								
306 NATUAL SURVEY	23 days -2 days		Wed 27/7/16	0 days	<b>}</b>												
309 TREE SURVEY	28 days 2 days	Thu 28/7/16	Wod 248/16	Q days	1 ***												
310 TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	90 days - 7 days	Thu 25/8/16	Tuo 22/11/16	0 days													k k
311 UTILITIES DIVERSION WORKS (CLP, PCOW & FW MAINS)	60 days 5 days	Thu 25/8/16	Sun 23/10/16	47 days		***********				4							L k L
312 GROUND INVESTIGATION WORKS (4 NOS. BOREHOLES & TRIAL PITS	i) 63 daya 5 daya	Mon 12/9/16	Fii 18/11/16	0 days													
SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days 2 days	Mon 12/9/16	Sun 2/10/15	68 days		h										· • ·	
314 INSTALLATION OF MONITORING MARKERS	21 days 2 days	Sot 19/11/16	Fri 9/12/16	0 days		ليعتم			- · ·				··· · ·				i
315 FW 29C (66%)	110 days 7 days	Sat 10/12/16	Wed 29/3/17	0 days		<b>t</b>	i i i i i i i i i i i i i i i i i i i						.				
316 RW 25B (50M)	80 days 7 days	Thu 30/3/17	Sat 17/6/17	0 days					F I								
317 RW 294 (90M)	100 days 7 days	Sun 18'6'17	Mon 25.9/17	0 days					t in the second s								
318 RW 27 (9064)	100 days 7 days	Tuo 269/17	Wed 3/1/16	0 days					*								
319 STREAM DECKI/NG D9	30 days 2 days	Thu 4/1/18	Fri 2/2/18	7 days													
S20 EARTHWORKS AND DRABAGE WORKS, UNLITIES LAYING (IF	240 days 21 days	Sun 12/11/17	Non 9/7/18	0 days									·				
321 ROAD WORKS	204 days 21 days	Tuo 107/18	Tuo 29/1/19	0 days				F			1	1					
322 COMPLETION OF FORTION K	0 days	Tuo 29/1/19	Tuo 2911/19	0 days								ł	9/1				
323 PORTION JS	264 days	Sun 28/8/16	Fri 19/5/17	145 days		••••••••••••••••••••••••••••••••••••••	÷										
324 POSSESION OF SITE (J1)	0 days	Sun 28/8/16	Sun 26/8/16	274 days	l l	◆ 28/8	1										
325 INITIAL SURVEY	4ö days 4 days	Mon 29/8/16	Wed 12/10/16	274 days			÷{										
326 SITE INVESTIGATION	90 days 10 days	Sun 192/17	Fri 195/17	145 days			÷ *										1
327 COMPLETION OF SECTION W3	0 days	Tue 29/1/19	Tuo 2911/19	0 days						г В В			501				
323																	
329 SECTION W4 PUBLIC TOILET	564 days	Thu 30/6/16	Sun 14/1/19	0 days			÷										1 1 1
330 STARTING DATE OF CONTRACT	0 days	Thu 30/6/16	Thu 30/6/16	0 days	30/6												
331 PORTION L	564 days	Thu 30/6/16	Son 14/1/19	0 days	¢		÷						and the second se				
332 POSSESION OF SITE	0 days	Thu 30/6/16	Thu 30/6/16	0 days	→ 30/6												
333 DOCUMENT SUBMISSION	100 days 7 days	Thu 30/6/16	Fri 7/10/16	0 days								1 1 1					
334 R.C. STRUCTURE	210 days 10 days	Sat 8/10/15	Fri 55/17	0 days		Ł	<u>.</u>	•••••••••••									
335 EQUILIZATION TANA	45 days 4 days	Sal 65/17	Mon 19:6/17	6 days													
336 SLUDGE HOLDING TANK	45 days 4 days	Tuo 20/6/17	Thu 3:8/17	6 days													
337 BIO-TREATRIEFIT FACILITY	60 days 5 days		Mon 2/10/17	6 days					+								
338 STEEL HOLLOW SECTION AT ROOF	60 days 5 days	Wed 5/7/17	Sat 2/9/17	3ð days					<b>****</b>								
339 NITERNAL FINISHES	60 days 5 days	Sat 65/17	Tua 4/7/17	0 days													
340 E&M. WORKS AND PD INSTALLATION	96 days 7 days	Wed 5/7/17	Sun & 10/17	0 days			1										1 1 1
341 EXTERMAL FINISHES AND SURROUNDING AREA	98 days 7 days		Sun 14/1/15	0 days				abiretato	#								8 8 6
342 COMPLETION OF PORTION L	0 days	1	Sun 14/1/18	0 days				*****		<b>→</b> 1412							8 1
343 COMPLETION OF SECTION W4	0 days	1	Sun 14/1/18	0 days				*******		▲ 14/1				1			
344	-																Ì
345 SECTION W6 (53 0.0 - 270)	1097 days	The 30/6/15	Mon 1/7/19	0 days			<u> </u>		1			<u>i  </u>					
345 SECTION WS (\$\$ 0.0 - 270) 336 STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	38 days	<b>→</b> 30/6			*****			1						
	180 days 10 days		Non 26/12/16	19 days	4 <u></u>		<u>     []</u> []										
343 PORTION M (BRIDGE E)	1697 days	Thu 30/6/16	Mon 1/7/19	0 days									<b>_</b>	1			
349 POSSESION OF SITE	0 days		Thu 30/6/16	36 days	<b>→</b> 30/6												
350 INITIAL SURVEY	28 days 2 days	Thu 30/6/18	Wed 27/7/16	26 days	×		i					;					
Tash Street		Project Summary External Tasks		External Milest		inactive Miestone Inactive Summary		il Task 🛛	Manual Summary Robup Manual Summary			De					
SPIL		<ul> <li>Example 19285</li> </ul>	6010/00/00/00/				- valde	,									

ntract no, yl/2015/01 Jacks From Tuen Mun Yo Sheung Shui - Remaining Works Programme												SANG HING - KULY JOIN
ilana	Duration Time Risk Early Alsourance	Start Early Firsish Float				11 <b>7</b>		2018		019	2020	
TREE SURVEY	(d375)		2016 11 J J A A 36 days		F M A M J	A S O N D	JICIMIA MI	J J A I S J O N I C	D J F M A M J	JASOND	J F M A M J J A	SIONO
TREE FELLING/TRANSPLANTING AND SITE CLEARAIXCE					3							
PREPARATION TOMP FOR PRE-DRILLING WORKS	45 days 4 days	Thu 30/6/16 Sat 13/8/16	65 days						2 5 8			
APPROVAL OF TOWP BY SUPERVISOR DSD	14 days 2 days	Sun 14/8/16 Sat 27/8/16	65 days									
STARTING DATE OF 1ST DRY SEASON	0 days	Tua 1/11/16 Tua 1/11/16	0 days	<b>1/11</b>								
TELIPORARY DRAMAGE WORKS	30 days 4 days	Tue 1/11/16 Vied 30/11/16	0 days	1 <b>1</b>								k I
PRE-DRILLING WORKS FOR PILES AT GRID 2	45 days 4 days	Thu 1/12/16 Sat 14/1/17	0 days	l the second sec								L L L
PRE-DRILLING WORKS FOR PILES AT GRID 3	45 days 4 days	Sun 15/1/17 Tue 28/2/17	0 days	Name of Street, Street								1 1 1
PRE-DRILLING WORKS FOR PILES AT GRID 1			0 days									L L
REMOVAL OF TEMPORARY DRAINAGE WORK			9 days	8								
END DATE OF 1ST DRY SEASON			9 daya 0 daya	8	<b>9</b> -3/13							
PREPARATION OF TOMP FOR PILING WORKS PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS			19 days									
APPROVAL OF TOMP BY SUPERVISORDSD			0 days									
STARTING DATE OF 2ND DRY SEASON	1		0 days			<b>6</b> 1/11						
TEMPORARY DRAINAGE WORKS (2ND DRY SEASOL)		//ed 1/11/17 Tos 21/11/17	0 days			alian (						
PILING WORKS AT GRID 2	45 days 4 days V	/ed 22/11/17 Fri 5/1/18	0 days			Ł						
PILE CAP AT GRID 2	30 days 3 days	Sat 6/1/18 Sun 4/2/18	0 days				tulon j					
PIER CONSTRUCTION AT GRID2	45 days 4 days	Non 5/2/18 \Ved 21/3/18	0 days			5	<b>*</b>					
PILING WORKS AT GRID 3	45 days 4 days	Sat 6/1/18 Man 19/2/18	D days				ter in the second se					
PILE CAP AT GRID 3	30 days 3 days	Tue 20/2/16 Wed 21/3/18	0 days									
REMOVAL OF TEMPORARY DRAINAGE WORK			0 duys				l h					
END DATE OF 2ND DRY SEASON			0 days	li li li		1	¢*31/7		L Constant			
PILING WORKS AT GRID I WITH ALL PILE LOAD TESTING			0 days	e B B B		1						
PILE CAP AT GRID 1			0 days	L L		9 2 3 8						
ABUTMENT AT GRID 1			0 days									
STARTING DATE OF 3RD DRT SEASON			0 days									
BRIDGE DECK CONSTRUCTION WITH TEMPORARY DRAWAGE WORK			0 days	E E								
ABUTMENT AND MOVEMENT JOINT AT GRID 3			¥6 days :			1 1 1		7				
REMOVAL OF TEMPORARY DRAMAGE WORK			Q days			1			4,31/3			
END DATE OF 3RD DRY SEASON		1	0 days 0 days			ž ja ja						
STEEL STRUCTURAL ROOF WORKS			Ú days			L F					с	
EARTHWORKS AND DRAMAGE WORKS, UTILITIES LAYING (F			0 days								· .	
NECESSARY) ROAD WORKS			0 days							h		
BRIDGE ASSOCIATED WORKS AND WATERMANN WORKS			0 days							B.		
COMPLETION OF FORTION M			0 days							<b>A</b> n		
OWPLETION OF SECTION W5	Ū dāys	Von 1/7/19 Non 1/7/19	ù days									
CTION W6 (TM0.0 - 960)	701 days	Thu 30/6/16 Thu 31/5/18	të days 🖉	i ·		 						
STARTING DATE OF CONTRACT	6 days	ກມ 3016/16 Thu 3026/16	Ö days → 30×6		<u></u> h []							
APPLICATION OF EXCAVATION PERMIT	180 days 10 days		54 days 🔶									
PPLICATION AND OBTAIN APPROVAL FROM MIRC FOR WORKS AT RP	120 days 10 days	Thu 30.6/16 Thu 27/10/16	14 days									
PORTION P		1	19 days			in the other states of the sta						
POSSESION OF SITE			Ö days									
DOCUMENT SUBMISSION			Ö dəys		Marste							
DRAWAGE WORKS			0 days									
ROAD WORKS			Ö days			1   	1	1/5				
COMPLETION OF PORTION P			19 days					<u>.</u>				
OXPLETION OF SECTION WS	0 days	867/10 Mile and an	19 days				1					
TION W7 (ST2.27 + 2.73, KW 0 + 1.35)	1097 days	he 30/6/16 Man 1/7/19	0 days			 		e passe a second de la companya de l	·	-		
TARTING DATE OF CONTRACT			74 days									
ORTION J2, J3			0 days			, 1 			; ]] · · · · · · · · · · · · · · · · · ·			
LAST DAY FOR INSTRUCTION TO EXECUSE	0 days	\$31 1/7/17 Sat 1/7/17	0 days			117						
POSSESSION OF SITE (J2, J3)	0 daya	Sat 1/7/17 Sat 1/7/17	0 daya		1	117						
APPLICATION OF EXCAVATION PERMIT			09 days	1								
CONDITION SURVEY FOR PERMANENT STRUCTURE ADJACENT TO 2 STORIES HEIGHT TEMP. BLDG		1	kô days	1 1 1								
INITIAL SURVEY		1	0 days	1								
TREE SURVEY		1	0 days		1							
TREE FELLIKG/TRANSPLANTING AND SITE CLEARANCE		1 I	0 days	4 1 1 1								
RW 46 (5734)			0 days 92 days	1 4 1								
RW 41 (83 IROS OF SOLDIER PILES) PILING WORK			92 days									
PILING WORK			92 days	1 1 1		r r						
LAGGING WORKS RW 48 : BAY 1 - BAY 6 (5011)		1	0 days									
RW 48 : BAY 1 - BAY 6 (50/1) RW 48 : BAY 7 - BAY 11 (50/1)			0 days	3 3 1 8		l I I						
RW 48 (2004)		I I	0 daya	4 9 1		1 1 1 1	L L L L L L L L L L L L L L L L L L L					
RW 248 (184)			0 days	-								
RW 24C (82M)			0 days	2 6 8		1 1 1						
		I I		t	]				i II			
Task (Ministration A			Edemal Mestone       Edemal Mestone        Edemal Mestone	(nactive Milestone) 📀		Manual Summary RoSup			Progress	24		
Spīt	E	- L-WIIM (part)					-					

	CCS FROM I DEN MUR TO SHEUNG SHUT- REMAINING WORKS					
ID Task f	lama	Duration Time	e Risk Early Star	at Easty Finish	Flast	2017 2018 2019
421	Rv/ 25 (83M)	fdavi 75 days 7 day	usance ISI WIS Sun	22/7/16 The 4/10/18	D days	
422	RW 26 (201)	30 days 2 day		5/10/18 \$213/11/18	-	
423	STREAM DECKING D3	30 days 2 day		4/11/18 Mon 3/12/18		
424	PROVIDE SAFETY ACCESS TO RESIDENT	21 days 2 day		5/10/18 Thu 25/10/18		
424	DEMOLITION OF EXISTING STRUCTURE	21 days 3 day		26/10/18 Thu 15/11/16		
425	EARTHWORKS AND DRAMAGE WORKS, UTILITIES LAYING (F	150 days 10 da		4/12/18 Thu 2:5/19	0 days	
	NECESSARY)			d 3'4/19 // Mon 1/7/19	0 days	
427	ROADWORKS	90 days 7 day	·	n 1/7/19 1.1on 1/7/19	0 days	
428	COMPLETION OF PORTION J	0 days		n 1/7/19 Mon 1/7/19		
]	COMPLETION OF SECTION W7	0 days		1247/19 Wed 247/19	0 days	
	WPLETION FROM SECTION WI TO SECTION W7	0 days	Wad	524//19 Wed 24//19	0 days	
431						
	SCAPING SOFTWORKS AND ESTABLISHMENT WORK	1613 days		30/6/16 Sal 28/11/20		
	otion yea	1029 days		30/6/16 V/ed 24/4/19	ļ	
	STARTING DATE OF CONTRACT	0 days		30/6/16 Thu 30/6/16		
435	ANDSCAPING SOFTWORKS	90 days 7 day	ys Fd2	25/1/19 Wed 24/4/19	0 days	
436	COMPLETION OF SECTION WAA	0 days	¥/ed	24/4/19 Wed 24/4/19	0 days	
437 SE	21037 (\$988	1248 days	Thu	30/6/(6 Fri 29/11/19	0 days	
433	STARTING DATE OF CONTRACT	0 days	Thu	30.6/16 Thu 30.6/16	1120 days	He sus
439	LANDSCAPING SOFTWORKS	120 days 10 da	lays Frid	2/8/19 Fri 29/11/19	0 days	
4:0	COMPLETION OF SECTION W69	0 days	Fri 2	1/19 Fri 29/11/19	0 days	
441 SE	STICH MSC	1034 days	Thu:	30/6/16 Mon 29/4/19	0 days	
442	STARTING DATE OF CONTRACT	0 days	Thu	30/6/16 Thu 30/6/16	944 daya	
443	LANDSCAPING SOFTWORKS	90 days 7 day	ys Wed	130/1/19 Mon 29/4/19	0 days	
444	COMPLETION OF SECTION VIEG	Cl days	Non	29/4/19 Man 29/4/19	0 days	
445 <b>SE</b>	STION W8D	594 days	Thu:	30/6/16 Tue 13/2/18	0 days	
	STARTING DATE OF CONTRACT	Çıdays	Thu	30/6/16 Thu 30/6/16	56-1 days	
447	LANDSCAPING SOFTWORKS	30 days 3 day	ys Mon	15/1/18 Tue 13/2/18	0 days	
1	COMPLETION OF SECTION WED	0 days	Tue	13/2/18 Tue 13/2/18	0 days	¥112
	STICH WSE	1127 days		30/5/16 Wed 31/7/19		
	STARTING DATE OF CONTRACT	0 days		30/6/16 Thu 30/6/16	1097 days	30 106
t i	LANDSCAPING SOFTWORKS	30 days 3 day		2/7/19 Wed 31/7/19		
	CONPLETION OF SECTION WEE		i	31/7/19 Wed 31/7/19	1	
	TION WEF	0 days		30/6/16 Sal 30/6/18		
{		731 days			0 days	
	STARTING DATE OF CONTRACT	0 days		30/6/16 Thu 30/6/16		
	ANDSCAPING SOFTWORKS	30 days 3 day	i	1/5/18 Sal 30/6/18	0 days	
	COMPLETION OF SECTION W8F	0 days		3136/18 \$al 306/18	i O days	
	CTION W3Q	B20 days		1/7/17 Sun 29/9/19	û days	
	AST DAY FOR INSTRUCTION TO EXECISE ANDSCAPING SOFTWORKS	0 days 90 days 7 day		1/7/17 Sat 1/7/17 2/7/19 Sun 29'9'19	730 days 0 days	
	COUPLETION OF SECTION Wag	0 days	Í	29-9'19 Sun 29-9'19	1	
	TION VIDA	1394 days		30/6/16 Thu 23/4/20	0 daya	
	STARTING DATE OF CONTRACT	Odays	í	30/6/16 Thu 30.6/16	1029 days	
		365 days 30 da		25'4/19 Thu 23'4'20		
	STABLISHIMENT WORKS			23/4/20 Thu 23/4/20		
	CONFLETION OF BECTION WA	0 days		-		
	тоу wэв	1613 days		30/6/16 Sal 28/11/20		No. 306
	STARTING DATE OF CONTRACT	0 days		30/6/16 Thu 30/6/16		
	ESTABLISHUENT WORKS	365 days 30 da	i i	30/11/19 Sal 28/11/20		
	CONFLETION OF SECTION W98	0 days		28/11/20 Sat 26/11/20		
	CTION WAG	1399 days		30/6/16 Tue 28/4/20	0 days	
	STARTING DATE OF CONTRACT	0 days		30/6/16 Thu 30/6/16		▶ 306 ·····
	establishment works	365 days 30 d		30/4/19 Tuo 28/4/20		
472	COMPLETION OF SECTION WIC	0 days		28/4/20 Tuo 26/4/20		
473 SE	CILON MAD	959 days	Thu	30/6/16 Wed 13/2/19		
474	STARTING DATE OF CONTRACT	0 days	Thu	30/6/16 Thu 30/6/16		
475	ESTABLISHMENT WORKS	365 days 30 d	lays Wed	14/2/18 Wed 13/2/19	0 days	
475	COMPLETION OF SECTION WED	0 days	Wed	13/2/19 Wed 13/2/19	0 days	₹132
477 SE	CTION KAE	1492 days	Thu	30/6/16 Thu 30/7/20	0 days	
478	STARTING DATE OF CONTRACT	0 days	Դիս :	30/6/16 Thu 30/6/16	1127 days	<b>→</b> 10/5
479	ESTABLISHNENT WORKS	365 days 30 da	lays Thu	1/6/19 Thu 30/7/20	0 days	
480	COMPLETION OF SECTION WAS	0 days	Thu:	30/7/20 Thu 30/7/20	0 days	
481 SE	CTION WOF	1096 days	Thu:	30/6/16 Sun 30/6/19	0 stays	
	STARTING DATE OF CONTRACT	0 days	Thu	30%/16 The 30%/16	731 days	¥4.105
1	ESTABLISHWENT WORKS	365 days 30 da		n 1/7/18 Sun 30-6/19	0 days	
	COLVELETION OF SECTION WIF	0 days		30/6/19 Sun 30/6/19		7305
		1105 days		1/7/17 Mon 26/9/20	1	
	LAST DAY FOR INSTRUCTION TO EXECISE	0 days		L 1/7/17 Sat 1/7/17	620 days	↓ 1/7 ······
	LAST DAY FOR WITRUCTION TO EXECTSE ESTABLISHMENT WORKS	0 days 365 days 30 da		130/9/19 Non 28/9/20		
485	COMPLETION OF SECTION WAA	0 days	) j Mont	128-9/20 Mon 28-9/20	0 days	
			<sup>\$</sup>	<u>i</u>	i	L
1						

CEDD CONTRACT NO. YL/2015/01 CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUL- REMAINING WORKS

	Task	Mestona	•	Project Summary	External Milestone	\$	Inactiva Milestona	Q Manus	Task Constant	Rental Manual Survey I	Rostup	Start-only	<b>C</b>	Critical	Records Progress	Second Application and applications
	Spit	Summary	¥	External Tasks	Ensetive Task	C	nactiva Summary	Durab	hon'y	Manual Summary	¢	Finisheny	3	Critical Split	Deadline	¢
REMARK: ALL SUNDAYS AND HO	LIDAYS ARE INCL	LUDED IN THIS PROGRAMME														



APPENDIX B ACTION AND LIMIT LEVELS FOR NOISE

## **Appendix B - Action and Limit Levels**

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

### Table B-1Action and Limit Levels for Construction Noise

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

APPENDIX C COPIES OF CALIBRATION CERTIFICATES



WELLAB LIMITED Rms 1516, 1701 & 1716, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

## **TEST REPORT**

### APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	C/N/160819C
Date of Issue:	2016-08-22
Date Received:	2016-08-19
Date Tested:	2016-08-19
Date Completed:	2016-08-22
Next Due Date:	2017-08-21
Page:	1 of 1

ATTN: Mr. W.K. Tang

### **Certificate of Calibration**

### Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 21460
Microphone No.	: 43679
Equipment No.	: N-08-09
5:	

### **Test conditions:**

Room Temperatre Relative Humidity : 24 degree Celsius : 58%

#### **Test Specifications:**

Performance checking at 94 and 114 dB

#### Methodology:

In-house method, according to manufacturer instruction manual

#### **Results:**

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

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



WELLAB LIMITED Rms 1516, 1701 & 1716, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.weliab.com.hk

#### Test Report No .: C/N/160930B **Cinotech Consultants Limited APPLICANT:** Date of Issue: 2016-10-03 Room 1710, Technology Park, Date Received: 2016-09-30 18 On Lai Street, Date Tested: 2016-09-30 Shatin, NT, Hong Kong Date Completed: 2016-10-03 Next Due Date: 2017-10-02 ATTN: Mr. W.K. Tang Page: 1 of 1 Item for calibration: : Acoustical Calibrator Description Manufacturer : SVANTEK Model No. : SV30A Serial No. :24791 : N-09-04 Equipment No. **Test conditions:** Room Temperatre : 25 degree Celsius **Relative Humidity** : 60%

TEST REPORT

#### Methodology:

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

### **Results:**

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

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

RATRICK TSE Laboratory Manager

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

#### Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Impact Noise Monitoring Schedule (February 2017)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Feb	2-Feb	3-Feb	4-Feb
5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb
	Noise					
12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb
				Noise		
19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb
	20100	21100	22.100	20100	21100	20100
				Noise		
26-Feb	27-Feb	28-Feb				
20-100	27-100	20-100				

#### **Noise Monitoring Station**

N1 - HKMLC Wong Chan Sook Ying Memorial School

N2 - Bethel High School

N3 - No. 159 Mai Po San Tsuen

N5 - Dills Corner Garden Block 2

N6 - Home of Loving Faithfulness

N7 - Village House in Shek Wu Wai

#### Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Tentative Impact Noise Monitoring Schedule (March 2017)

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

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

#### **Noise Monitoring Station**

- N1 HKMLC Wong Chan Sook Ying Memorial School
- N2 Bethel High School
- N3 No. 159 Mai Po San Tsuen
- N5 Dills Corner Garden Block 2
- N6 Home of Loving Faithfulness
- N7 Village House in Shek Wu Wai

APPENDIX E NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

### Appendix E - Noise Monitoring Results

### (0700-1900 hrs on Normal Weekdays)

Location N1 - HKMLC Wong Chan Sook Ying Memorial School									
					Unit:	dB (A) (30-min)	)		
Date	Time	Weather	Measured Noise Level		<b>Baseline</b> Level	Construction Noise Level			
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>		
6-Feb-17	9:20	Cloudy	60.4	63.6	56.7		60.4 Measured $\leq$ Baseline		
16-Feb-17	9:25	Sunny	61.3	63.9	56.8	62.2	61.3 Measured $\leq$ Baseline		
23-Feb-17	16:00	Cloudy	60.3	62.2	57.2		60.3 Measured $\leq$ Baseline		

#### Location N2 - Bethel High School

					Unit:	: dB (A) (30-min)	
Date	Time	Weather	Measured Noise Level		Baseline Level	Construction Noise Level	
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
6-Feb-17	13:50	Cloudy	60.0	62.6	56.3		58.3
16-Feb-17	10:10	Sunny	61.8	64.2	56.7	55.2	60.7
23-Feb-17	15:15	Cloudy	62.7	64.9	52.2		61.8

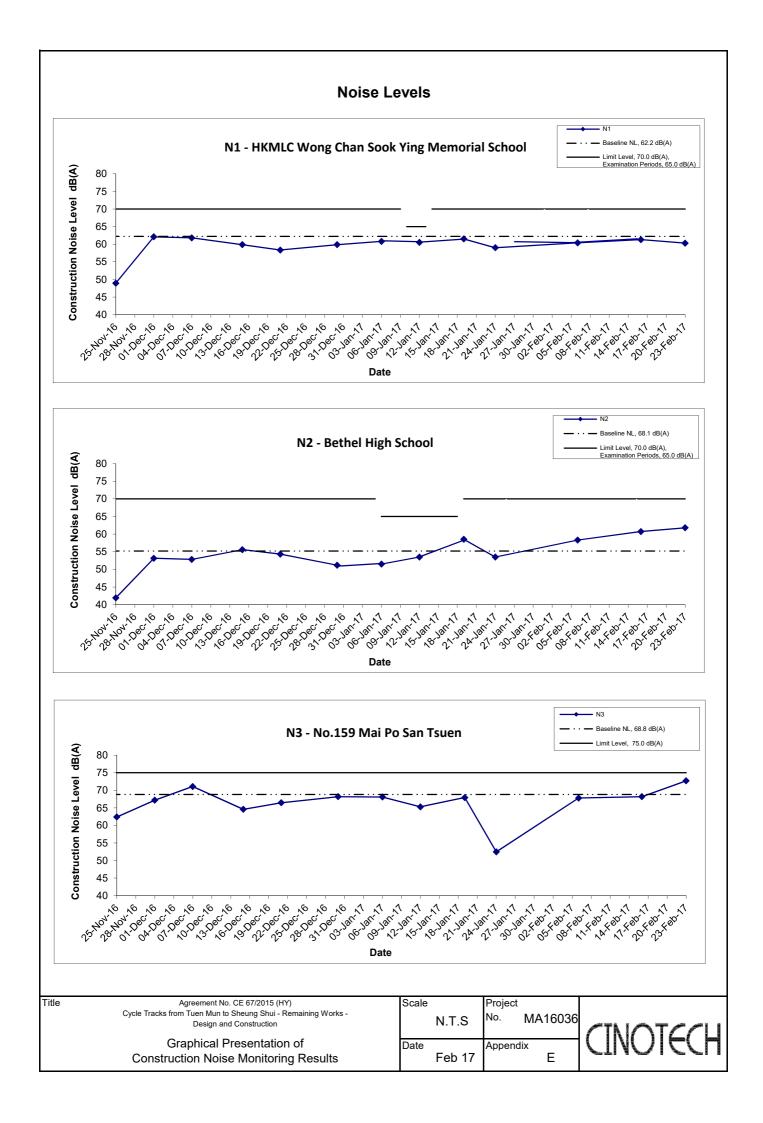
Location N3 - N	Location N3 - No.159 Mai Po San Tsuen								
				Unit: dB (A) (30-min)					
Date	Time	Weather	Measured Noise Level		Baseline Level	Construction Noise Level			
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>		
6-Feb-17	9:20	Cloudy	67.8	70.1	64.9		67.8 Measured $\leq$ Baseline		
16-Feb-17	11:00	Sunny	71.5	74.4	68.8	68.8	68.2		
23-Feb-17	13:00	Cloudy	74.2	76.1	68.8		72.7		

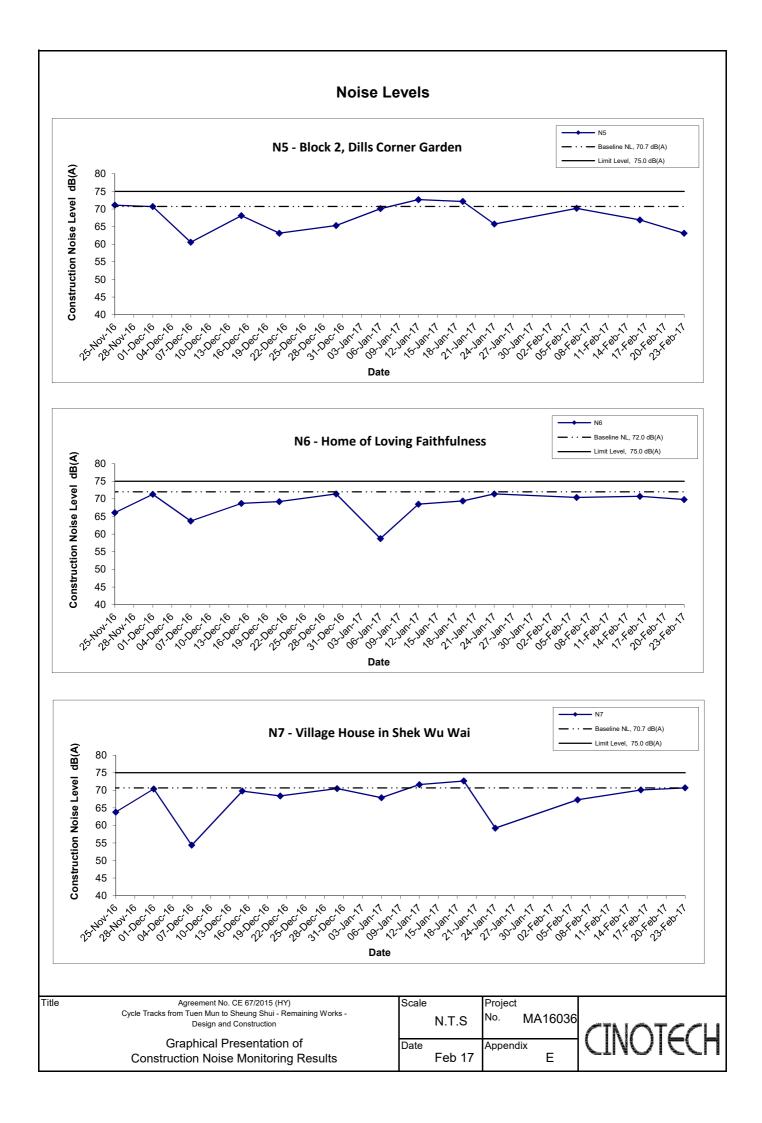
Location N5 - Block 2, Dills Corner Garden								
		Unit: dB (A) (30-min)						
Date	Time	Weather	Measured Noise Level		Baseline Level	Construction Noise Level		
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>	
6-Feb-17	10:55	Cloudy	70.2	73.9	66.6		70.2 Measured $\leq$ Baseline	
16-Feb-17	13:50	Sunny	72.2	75.5	67.9	70.7	66.9	
23-Feb-17	10:00	Cloudy	71.4	74.0	67.1		63.1	

Location N6 - Home of Loving Faithfulness									
				Unit: dB (A) (30-min)					
Date	Time	Weather	Measured Noise Level		Baseline Level	Construction Noise Level			
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>		
6-Feb-17	11:35	Cloudy	70.4	72.8	65.7		70.4 Measured $\leq$ Baseline		
16-Feb-17	14:30	Sunny	70.7	72.9	67.6	72.0	70.7 Measured $\leq$ Baseline		
23-Feb-17	10:50	Cloudy	69.8	71.6	66.2		69.8 Measured $\leq$ Baseline		

Location N7 - V	Location N7 - Village House in Shek Wui Wai							
					Unit:	dB (A) (30-min)		
Date	Time	Weather	Measured Noise Level		Baseline Level	Construction Noise Level		
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>	
6-Feb-17	10:10	Cloudy	67.3	69.6	64.2		67.3 Measured $\leq$ Baseline	
16-Feb-17	13:00	Sunny	70.1	72.7	66.2	70.7	70.1 Measured $\leq$ Baseline	
23-Feb-17	13:45	Cloudy	73.7	74.1	66.7		70.7	

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APPENDIX F SUMMARY OF EXCEEDANCE

### **Appendix F – Summary of Exceedance**

Exceedance Report for Contract No. YL/2015/01 – Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

(A) Exceedance Report for Construction Noise (NIL in the reporting month)

APPENDIX G SITE AUDIT SUMMARY

### Contract No. YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

### Weekly Site Inspection Record Summary

Inspection Information		
Checklist Reference Number	170208	
Date	8 February 2017 (Wednesday)	
Time	10:00-12:30	······································

Ref. No.	Non-Compliance	Related Item No.
-	None identified	1

Ref. No.	Remarks/Observations	Related Item No.
	<ul><li>B. Water Quality</li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li>C. Air Quality</li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul> <li>D. Construction Noise Impact</li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
170208-001	<ul> <li><i>E. Waste / Chemical Management</i></li> <li>Rubbish bins in Portion K should be maintained more frequently.</li> </ul>	E li
	<ul><li><i>F. Ecology and Fisheries</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li>G. Landscape &amp; Visual</li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>H. Permits/Licences</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	I. Others	
	<ul> <li>Follow-up on previous audit session (Ref. No.: 170124), items 170124-001, 170124-002, 170124-003, 170124-004, 170124-F05 and 170124-F06 were remarked as 170208-F02, 170208-F03, 170208-F04, 170208-F05, 170208-F06 and 170208-F07 respectively. Review will be needed during next audit session.</li> </ul>	

/	0.12-1
	8 February 2017
N.T.	8 February 2017
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### Contract No. YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

### Weekly Site Inspection Record Summary

170215	
15 February 2017 (Wednesday)	
10:00-12:30	
	170215 15 February 2017 (Wednesday)

Ref. No.	Non-Compliance	Related Item No.
_	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	<ul><li>B. Water Quality</li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul> <li>C. Air Quality</li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	<ul> <li>D. Construction Noise Impact</li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
170215-001	<ul> <li><i>E. Waste / Chemical Management</i></li> <li>Drip tray should be provided to chemical containers in Portion K and Works Area 3.</li> </ul>	E 8
	<ul><li><i>F. Ecology and Fisheries</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li>G. Landscape &amp; Visual</li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>H. Permits/Licences</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	I. Others	
	<ul> <li>Follow-up on previous audit session (Ref. No.: 170208), items 170208-O01, 170208-F02, 170208-F04 and 170208-F07 were remarked as 170215-F02, 170215-F03, 170215-O01 and 170215-F04 respectively. Review will be needed during next audit session.</li> </ul>	

	Name	Signature	Date
Recorded by	Kelvin Koo	K	15 February 2017
Checked by	Dr. Priscilla Choy	WI	15 February 2017
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### Contract No. YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

### Weekly Site Inspection Record Summary

Checklist Reference Number	170221	
Date	21 February 2017 (Tuesday)	
Time	10:00-12:30	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	2

Ref. No.	Remarks/Observations	Related Item No.
170221-001	<ul> <li>B. Water Quality</li> <li>Water inside the wheel washing bay of Portion A is observed silty. The Contractor is reminded to clear the wate regularly to increase the efficiency of wheel washing.</li> </ul>	B 10iii & iv
170221-R02	<ul><li>C. Air Quality</li><li>To provide frequent water spray to unpaved area in Portion K.</li></ul>	C 6
	<ul> <li>D. Construction Noise Impact</li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
170221-R03 170221-R04	<ul> <li><i>E. Waste / Chemical Management</i></li> <li>To clear the oil stain in unpaved area in Portion K.</li> <li>To avoid accumulation of general refuse and clear the waste properly at Portion K.</li> </ul>	E 8 E 1i & 1i
	<ul><li>F. Ecology and Fisheries</li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li>G. Landscape &amp; Visual</li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>H. Permits/Licences</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul> <li>I. Others</li> <li>Follow-up on previous audit session (Ref. No.: 170215), items 170215-F02 were remarked as 170221-R04. Review will be needed during next audit session.</li> </ul>	

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Recorded by	Kelvin Koo	12	21 February 2017
Checked by	Dr. Príscilla Choy	NI	21 February 2017
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### Contract No. YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

### Weekly Site Inspection Record Summary

Checklist Reference Number	170228	Second Second
Date	28 February 2017 (Tuesday)	
Time	14:00-16:30	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-,

Ref. No.	Remarks/Observations	Related Item No.
	<ul><li>B. Water Quality</li><li>No environmental deficiency was identified during site inspection.</li></ul>	
170228-001	<ul> <li>C. Air Quality</li> <li>Tarpaulin coverage should be provided to the stockpiles in Portions A, C and Works Area 3 for dust suppression.</li> </ul>	C 7
	<ul> <li>D. Construction Noise Impact</li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
170228-002	<ul> <li>E. Waste / Chemical Management</li> <li>Drip tray should be provided to chemical containers in Portion K.</li> </ul>	E 8
	<ul><li>F. Ecology and Fisheries</li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	G. Landscape & Visual • No environmental deficiency was identified during site inspection.	
	<ul><li><i>H. Permits/Licences</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul> <li>I. Others</li> <li>Follow-up on previous audit session (Ref. No.: 170221), items 170221-O01, 170221-R02 and 170221-R04 were remarked as 170228-F03, 170228-F04 and 170228-F05 respectively. Review will be needed during next audit session.</li> </ul>	

	Name	Signature	Date
Recorded by	Kelvin Koo	Han	28 February 2017
Checked by	Dr. Priscilla Choy	with	28 February 2017

APPENDIX H EVENT AND ACTION PLANS

# **Appendix H - Event and Action Plans**

Event and Action Plan for Construction Noise

EVENT	ACTION				
	ET LEADER	IEC	ER	CONTRACTOR	
Action Level	1. Notify IC(E) and Contractor;	1. Review the analysed results	1. Confirm receipt of	1. Submit noise mitigation	
being	2. Carry out investigation;	submitted by the ET;	notification of failure in	proposals to IC(E);	
exceeded	3. Report the results of investigation to	2. Review the proposed remedial	writing;	2. Implement noise mitigation	
	the IC(E) and Contractor;	measures by the Contractor and	2. Notify Contractor;	proposals.	
	4. Discuss with the Contractor and	advise the ER accordingly;	3. Require Contractor to		
	formulate remedial measures;	3. Supervise the implementation	propose remedial measures		
	5. Increase monitoring frequency to	of remedial measures.	for the analysed noise		
	check mitigation effectiveness.		problem;		
			4. Ensure remedial measures		
			are properly implemented.		
Limit Level	1. Notify IC(E), ER, EPD and	1. Discuss amongst ER, ET, and	1. Confirm receipt of	1. Take immediate action to	
being	Contractor;	Contractor on the potential	notification of failure in	avoid further exceedance;	
exceeded	2. Identify source;	remedial actions;	writing;	2. Submit proposals for remedial	
	3. Repeat measurement to confirm	2. Review Contractor's remedial	2. Notify Contractor;	actions to IC(E) within 3 working	
	findings	actions whenever necessary to	3. Require Contractor to	days of notification;	
	4. Increase monitoring frequency;	assure their effectiveness and	propose remedial measures	3. Implement the agreed	
	5. Carry out analysis of Contractor's	advise the ER accordingly.	for the analysed noise	proposals;	
	working procedures to determine	3. Supervise the implementation	problem;	4. Resubmit proposal if problem	
	possible mitigation to be implemented;	of remedial measures	4. Ensure remedial measures	still not under control;	
	6. Inform IC(E), ER and EPD the		are properly implemented;	5. Stop the relevant portion of	
	causes & actions taken for the		5. If exceedance continues,	works as determined by the ER	
	exceedances;		consider what portion of the	until the exceedance is abated.	

# **Appendix H - Event and Action Plans**

7. Assess effectiveness of	work is responsible and	
Contractor's remedial actions and	instruct the Contractor to stop	
keep IC(E), EPD and ER informed of	that portion of the work until	
the results;	the exceedance is abated.	
8. If exceedance stops, cease		
additional monitoring		

APPENDIX I ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Construction	Air Quality	·	
S.3.6.2	S.3.2.3	All the dust control measures as recommended in the Air Pollution Control (Construction Dust) Regulation, where applicable, should be implemented. Typical dust control measures include:	٨
S.3.6.2	S.3.2.3	• The works area for site clearance shall be sprayed with water before, during and after the operation so as to maintain the entire surface wet	*
S.3.6.2	S.3.2.3	• Restricting heights from which materials are to be dropped, as far as practicable to minimize the fugitive dust arising from unloading/ loading	٨
S.3.6.2	S.3.2.3	• Immediately before leaving a construction site, all vehicles shall be washed to remove any dusty materials from the bodies and wheels. However, all spraying of materials and surfaces should avoid excessive water usage	^
S.3.6.2	S.3.2.3	• Where a vehicle leaving a construction site is carrying a load of dusty materials, the load shall be covered entirely by clean impervious sheeting to ensure that the dusty materials will not leak from the vehicle	٨
S.3.6.2	S.3.2.3	• Travelling speeds should be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks	٨
S.3.6.2	S.3.2.3	• Erection of hoarding of not less than 2.4 m high from ground level along the site boundary, where appropriate	٨
S.3.6.2	S.3.2.3	• Any stockpile of dusty materials shall be covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides	*

# Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.3.6.2	S.3.2.3	• All dusty materials shall be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet	^
Construction	Noise Impact		
\$5.5.11	S4.2.17 (Stage 1 only)	In order to prevent potential cumulative construction noise impacts to NSRs at Mai Po San Tsuen and Palm Springs, the works at the cycle track section (near CH- MP5+100m) are recommended to be scheduled to avoid works at the areas near Castle Peak Road of the Proposed Comprehensive Development at Wo Shang Wai (CDWSW) project if the works site of the CDWSW project is less than 300 m away from Castle Peak Road.	N/A
S.5.5.14	S.4.2.2 (Stage 1 only)	The contractor shall liaise with the Yuen Long and Kam Tin Sewerage and Sewage Disposal Stage 2 (YLKTSSD2) and North West New Territories Salt Water Supply (NWNTSWS) works contractors so as to avoid undertaking works concurrently with the works when they are in the close proximity as far as practicable. As a conservative approach, works for the cycle track shall be carried out when the works from the other projects are over 300 m away. The requirements shall be included in the works contracts.	N/A
N/A	N/A (Stage 2 only)	The contractor shall liaise with Yuen Long and Kam Tin Sewerage and Sewage Disposal (YLKSSD), Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT), Drainage Improvement at Northern NT - Package A – Drainage Improvement Works in San Tin (Remaining Works) - Investigation, North East New Territories New Development Areas Planning and Engineering Study (Investigation) (NENTNDA) and the Proposed Residential cum Passive Recreational Development within "Recreation" ("REC") zone and "Residential (Group C)" Zone at Various Lots in DD 104, Yuen Long, N.T. (RCPRD) contractors so as to avoid undertaking works concurrently with their works (refer to S. 4.2.2 of the EM&A Manual for Stage 2 Works).	Λ

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Table 5-7	S.4.2.19	Use of quiet plant (PME):	^
		- mini excavator	
		- mobile crane	
		- dump truck	
		- hand-held electric circular saw	
		- concrete lorry mixer	
		- lorry	
		- vibratory poker	
		- asphalt paver	
		- crane mounted auger	
		- road roller	
		- road ripper, excavator mounted	
S.5.6.2	S.4.2.19	Noise barrier in the form of site hoarding shall be used for the following PMEs	^
Table 5-8		where practicable:	
		- mini excavator	
		- mobile crane	
		- dump truck	
		- hand-held electric circular saw	
		- bar bender	
		- vibrating hammer	
		- generator	
		- concrete lorry mixer	
		- lorry	
		- vibratory poker	
		- asphalt paver	
		- compactor	
		- road roller	
		- crane mounted auger	

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		- grout mixer	
		- grout pump	
		- drill	
		- road ripper, excavator mounted	
S.5.6.2	S.4.2.19	Noise enclosure shall be used for the following PMEs where practicable:	N/A(1)
		- air compressor	
		- hand-held breaker	
S.5.6.2	S.4.2.19	The barrier / enclosure material's surface mass shall be in excess of 7 kg/m <sup>2</sup> .	۸
S.5.6.6	S.4.2.19	Use of alternative quieter plant such as road ripper, excavator mounted instead of handheld breaker during levelling/excavation works.	٨
S.5.6.8	S.4.2.19	The Contractor shall adopt the Code of Practice on Good Management Practice to	٨
		Prevent Violation of the Noise Control Ordinance (Chapter 400) (for Construction	
		Industry) published by EPD	
S.5.6.8	S.4.2.19	The Contractor shall observe and comply with the statutory and non-statutory	٨
		requirements and guidelines	
S.5.6.8	S.4.2.19	Before commencing any work, the Contractor shall submit to the project Engineer	٨
		for approval the method of working, equipment and noise mitigation measures	
		intended to be used at the site	
S.5.6.8	S.4.2.19	The Contractor shall devise and execute working methods to minimize the noise	٨
		impact on the surrounding sensitive uses, and provide experienced personnel with	
		suitable training to ensure that those methods are implemented	
S.5.6.8	S.4.2.19	Noisy equipment and noisy activities should be located as far away from the NSRs as is practical	٨
S.5.6.8	S.4.2.19	Unused equipment should be turned off. PME should be kept to a minimum and the	٨
		parallel use of noisy equipment / machinery should be avoided	
S.5.6.8	S.4.2.19	Regular maintenance of all plant and equipment	٨
S.5.6.8	S.4.2.19	Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable	N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.5.6.8	S.4.2.19	The Contractor shall liaise with the schools that are located near the works sites regarding their examination period and schedule the noisy works to avoid the examination period as far as possible	^
Construction	Water Quality		
S.6.6.1	S.5.2.4	Mitigation measures should be implemented to prevent the uncontrolled discharge of wastewater from the construction site in accordance with Practice Note for Professional Persons ProPECC PN1/94 - Construction Site Drainage	^
S.6.6.1	S.5.2.4	Surface run-off from the construction sites will be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps and sediment settling basins. This is important for works immediately along the Kam Tin River, Ngau Tam Mei Main Drainage Channel, River Beas and Shek Sheung River	^
S.6.6.1	S.5.2.4	Channels, earth bunds or sand bag barriers will be provided on-site to properly direct stormwater to the above-mentioned facilities	٨
S.6.6.1	S.5.2.4	Existing silt removal facilities, channels and manholes along roads and pedestrian walkways will be maintained and the deposited silt and grit will be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times	^
S.6.6.1	S.5.2.4	Other manholes (including any newly constructed ones) will be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system	^
S.6.6.1	S.5.2.4	Open stockpiles of materials on site will be avoided or where unavoidable covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system	^
S.6.6.1	S.5.2.4	Where possible, works entailing soil excavation will be minimized during the rainy season (i.e. April to September);	^
S.6.6.1	S.5.2.4	Where applicable, final earthworks surfaces/ slopes will be well compacted and	N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		hydro-seeded following completion to prevent erosion	, 
S.6.6.1	S.5.2.4	During construction works, chemical toilets will be provided for the use of site staff. These will be provided by a licensed contractor, who will be responsible for appropriate disposal and maintenance of the effluent	^
S.6.6.1	S.5.2.4	Works adjacent to the fishponds near Mai Po San Tsuen should be avoided as far as possible during the wet season to avoid runoff into the fishponds	٨
S.6.6.1	S.5.2.4	Wastewater from site facilities (such as toilets) should be discharged to foul sewer, where available. Chemical toilets will be considered where there is no foul sewer connection. There is not expected to be a temporary canteen.	^
S.6.6.1	S.5.2.4	All site discharges within Water Control Zones must comply with the terms and conditions of a valid discharge licence issued by EPD	٨
S.6.6.1	S.5.2.4	Vehicle wheel washing facilities should be provided, where applicable, at the site exit such that mud, debris, etc. deposited onto the vehicle wheels or body can be washed off before the vehicles are leaving the site area	*
S.6.6.1	S.5.2.4	Section of the road between the wheel washing bay and the public road should be paved with backfill to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains	^
S.6.6.1	S.5.2.4	The project may occasionally involve the handling of fuel and generates chemical wastes. It must be ensured that all fuel tanks and chemical storage are sited on sealed areas and provided with locks	^
S.6.6.1	S.5.2.4	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent accidentally spilled oil, fuel or chemicals from reaching the receiving waters	^
S.6.6.1	S.5.2.4	Oil and grease removal facilities will be provided where appropriate, for example, in area near plant workshop/ maintenance areas	N/A
S.6.6.1	S.5.2.4	Chemical waste arising from the site should be properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation	٨

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
-	S.5.2.7 (Stage 1 only)	The construction work of cycle bridge at Shek Sheung River is not recommended to be carried out during wet seasons (April to October), and the dry weather flow will be diverted to avoid entering the works area. In order to further protect the river water quality from disturbance, the construction work especially excavation works, will be surrounded by cofferdams to ensure the works will be carried out in a dry condition to prevent water pollution to the river.	^
N/A	S.5.2.4 (Stage 2 only)	Stream decking is recommended to be carried out during dry weather condition. To prevent disturbance to the river water quality, measures will be taken to ensure the works to be carry out in a dry condition to prevent water pollution to the river, such as sandbag barriers.	٨
N/A	S.5.2.6 (Stage 2 only)	Based on the current available information, the tentative programmes of some construction works for the Agreement No. CE 57/2011 (DS) Drainage Improvement at Northern NT - Package A Drainage Improvement Works in San Tin (Remaining Works) - Investigation (DIST) and the Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT) projects may overlap with Stage 2 cycle track construction works. It is recommended that the Contractor should liaise with the project contractor(s) of the DIST and the NSWCT projects to schedule the construction works and allow programme phrasing to avoid major concurrent activities to be undertaken simultaneously in the vicinity.	A
Construction	Waste Managem	ent	
S.7.4.1	S.6.2.1 – S.6.2.4	An on-site environmental co-ordinator employed by the Contractor should be identified at the outset of the works. Prior to commencement of Project works, the co-ordinator shall prepare a WMP in accordance with the requirements set out in the ETWB TCW No. 19/2005, Waste Management on Construction Sites, for the ER's approval. The WMP shall include monthly and yearly Waste Flow Tables ("WFT") that indicate the amounts of waste generated, recycled and disposed of (including final disposal site), and which should be regularly updated;	Λ
S.7.4.1	S.6.2.6	Given the potential for secondary environmental impacts (dust, noise, water quality	٨

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		and visual impacts), mitigation measures are required to ensure proper handling, storage, transportation and disposal of materials at the outset and throughout the construction phase of the project	
S.7.4.1	S.6.2.6	• The reuse/ recycling of all materials on site shall be investigated and exhausted prior to treatment/ disposal off-site	٨
S.7.4.1	S.6.2.6	• Good site practices shall be adopted from the commencement of works to avoid the generation of waste, reduce cross contamination of waste and to promote waste minimisation	^
S.7.4.1	S.6.2.6	• All waste materials shall be sorted on-site into inert and non-inert C&D materials, and where the materials can be recycled or reused, they shall be further segregated. Inert material, or public fill will comprise stone, rock, masonry, brick, concrete and soil which is suitable for land reclamation and site formation whilst non-inert materials include all other wastes generated from the construction process such as plastic packaging and vegetation (from site clearance)	٨
S.7.4.1	S.6.2.6	<ul> <li>The Contractor shall be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the Contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert waste shall be collected and disposed of to the Public Filling Areas whilst any inert C&amp;D materials shall be re-used on site as far as possible. Alternatively, if no use of the inert material can be found onsite, the materials can be delivered to a Public Fill Area or Public Fill Bank after obtaining the appropriate licence</li> </ul>	Λ
S.7.4.1	S.6.2.6	<ul> <li>In order to monitor the disposal of C&amp;D material and solid wastes at public filling facilities and landfills, and control fly-tipping, a trip-ticket system shall be implemented by the Contractor, in accordance with the contract and the requirements of DEVB Technical Circular (Works) No. 6/2010 "Trip Ticket System for Disposal of Construction and Demolition Material".</li> </ul>	Λ

EIA Ref.	EM&A Ref.	Mitigation Measures	Status		
S.7.4.1	S.6.2.6	• Under the Waste Disposal (Chemical Waste) (General) Regulation, the Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on site. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD;	*		
S.7.4.1	S.6.2.6				
S.7.4.1	S.6.2.6	<ul> <li>All chemical toilets, if any, shall be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal; and</li> </ul>	٨		
S.7.4.1	S.6.2.6	• Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.	٨		
S.7.4.1	S.6.2.6	• The Contractor shall comply with all relevant statutory requirements and guidelines and their updated versions that may be issued during the course of project construction.	٨		
Land Contam	ination				
S.8.7.2 – S.8.7.3	S.7.2.2	Preparation of Contamination Assessment Plan (CAP), which should be submitted to EPD for endorsement, prior to investigation.	^		

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		Site investigation and sampling works in accordance with the approved CAP. If contamination is identified, Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) shall be prepared and submitted for EPD's approval.	
S.8.7.5			N/A
S.8.7.5 S.7.3.1		<ul> <li><u>Management of Contaminated Soils</u></li> <li>Where appropriate, the use of bulk handling equipment should be maximised to reduce the potential contacts between excavated contaminated materials and associated workers;</li> <li>The plants for excavation and transportation of the material shall be cleaned prior to leaving the Site;</li> <li>All temporary stockpiles of the materials shall be completely covered with plastic/ tarpaulin sheets, particularly during heavy rainstorms. The stockpiling areas should be concrete-paved or lined with its perimeter constructed of a concrete bund where appropriate in order to avoid any leachate from migrating out of the area;</li> <li>Any vehicles transporting the material shall be suitably covered to limit potential dust emissions;</li> <li>Surface waters shall be diverted around any contaminated areas or stockpiles to minimize potential runoff into excavations, as runoff might increase the volume of</li> </ul>	N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		contaminated water requiring disposal and suspended solids in the wastewater stream	
Ecological & I	Fisheries Impact		
S.9.11.4	S.8.2.2	Prior to tree felling, survey inspections should be made for their suitability for roosting bats. Once these trees have been highlighted, then appropriate checks of each tree for bats should be made prior to removal as a precautionary measure.	٨
S.9.11.7	S.8.2.3 (Stage 1 only)	<i>In situ</i> compensation planting at the Information Kiosk and R9 should occur to provide continuing function of the bamboo and plantation (see Figure 8-1 of EM&A Manual for Stage 1 Works (Year 2015)). It is recommended that the Information Kiosk and Resting Station R9 should be designed sympathetically to the natural surroundings. Compensation planting along the Sheung Yue River and Shek Sheung River including at R9 and Information Kiosk could be implemented as appropriate.	N/A
S.9.11.17 – S.9.11.19	S.8.2.4 (Stage 1) S.8.2.3 (Stage 2)	For the Kam Tin section and the Long Valley section of the Project, construction works shall not be carried out during the wet season (April to October) which is considered to have no significant impact to wildlife and to avoid the breeding season of Greater Painted-snipes at Long Valley. This is also to prevent any site run-off to adjacent water channels and fishponds including those fishponds along San Tin Tsuen Road.	٨
S.9.11.23	S.8.2.4 (Stage 2 only)	Construction of the section in the vicinity of Mai Po Village SSSI shall be undertaken beyond the recognised breeding seasons for ardeids in Hong Kong to prevent any potential disturbance to the nesting birds, i.e., from September to February.	٨
-	S.8.2.5 (Stage 1 only)	In order to avoid any adverse impact to the healthiness of the bamboo groove from dust-coating on leave next to the R9 and hence affect the breeding habitat of the very rare Dark Brown Ace, a dust barrier should be installed between the bamboo and the construct site.	N/A
-	S.8.2.6 (Stage 1 only)	For the lower Shek Sheung River, construction works should be scheduled in dry season to minimize the disturbance to the foraging ardeids and the Quiet PME shall	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		be implemented practicable to minimize the noise disturbance to the foraging ardeids.	
S.10.5.4	S.8.2.7 (Stage 1) S.8.2.5 (Stage 2)	To prevent any negative impact to water quality as a result of site run-off, good site practice must be employed at all times, particularly in the areas close to fishponds. Practice Note for Professional Persons ProPECC PN1/94 – Construction Site Drainage shall be implemented.	٨
S.10.5.4	(Stage 2) S.8.2.8 (Stage 1) S.8.2.6 (Stage 2)	Along Pok Wai South Road, once the final construction sequencing is known, liaison with local residents and aquaculturists should be implemented in order to minimise temporary road blockages and to identify the best timing for works along this area.	N/A
S.10.5.3	S.8.2.9 (Stage 1) S.8.2.7 (Stage 2)	During wet seasons, surface run-off from the construction sites will need to be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps, oil interceptors and sediment settling basins. Works adjacent to the fishponds near NTMDC inside the Wetland Conservation Area (WCA) and Mai Po San Tsuen should be avoided, as far as practicable, during the wet season to avoid runoff into the fishponds.	٨
-	S.8.2.10 (Stage 1 only)	The use of signage at the Resting Stations to indicate that wildlife may be present and that noise levels and activities should be kept to a minimum could be implemented. This may help to reduce any potential disturbance to wildlife from human activity. At Long Valley, to mitigate against potential indirect human disturbance to Greater Painted-snipe, planting could be undertaken as appropriate along the proposed cycle track at meander 8 to act as screening.	N/A
S.9.11.27	S.8.2.11 (Stage 1) S.8.2.9 (Stage 2)	<ul> <li>The following good work practices are recommended:</li> <li>Avoid soil storage against trees;</li> <li>Fence off any potentially ecologically sensitive areas;</li> <li>Delineation of works area to prevent encroachment onto adjacent habitats;</li> <li>Reinstatement of habitat after works;</li> <li>No on-site burning of waste;</li> </ul>	٨

EIA Ref.	EM&A Ref.	Mitigation Measures	Status			
		<ul> <li>Waste and refuse in appropriate receptacles;</li> <li>Staff training/toolbox talks for site work near Long Valley and WCA – important areas for birds therefore staff should reduce amount of noise whilst working and during breaks where possible;</li> <li>Regular ecological checks; and</li> <li>Silt/ Sediment/ Oil traps for drainage to prevent site run-off</li> </ul>				
Cultural Heri	tage Impact					
S.11.5.1       S.9.2.1       Care should be taken during the construction stage to report any signs of possible discovery of artefacts.						
Landscape an	d Visual					
Detailed Desig	gn Phase					
Table 12-11	CP1	A detailed tree survey to be carried out by the IDC Consultant during the detailed design stage. The recommendations of the preliminary tree survey shall be reviewed and confirmed during the detailed survey. Should tree felling be required, tree felling application is required in accordance with DEVB Technical Circular (Works) No. 10/2013 Tree Preservation	^			
S.12.9.3	CP6	It has been agreed that the proposed landscape areas under DSD's 4215DS project which falls within the cycle track works area will be implemented by Project proponent of this Project in form of roadside amenity areas after completion of the cycle track. During the detailed design, the works programme of this Project shall be coordinated with the above-mentioned DSD project in order to avoid abortive planting works and impact on landscape resources between the interface of different public works. The proposed landscape areas under 4215DS falled within the cycle track works area shall be incorporated in the final landscape design of this Project.	^			
S.12.10.1	OP1	The Design Concept Drawings and Conceptual Landscape Master Plan of cycle track and associated facilities demonstrate landscape and visual mitigation strategies and design measures including integrated design approach, amenity and compensatory	^			

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		planting proposals and treatment of retaining structure and slopes have been recommended in the EIA. More detailed landscape and compensatory planting proposals shall be developed by IDC consultants at later stage during detailed design and construction phase of this project following the completion of the detailed Tree Survey Report and approval from relevant departments at that stage	
Construction H	Phase		
Table 12-11	CP1.1	To retain trees, which have high amenity or ecology value and contribute most to the landscape and visual amenity of the site and its immediate environs.	^
	CP1.2	Creation of precautionary area around trees to be retained equal to half of the trees canopy diameter. Precautionary area to be fenced.	^
	CP1.3	Prohibition of the storage of materials including fuel, the movement of construction vehicles, and the refuelling and washing of equipment including concrete mixers within the precautionary area.	*
	CP1.4	Phased segmental root pruning for trees to be retained and transplanted over a suitable period (determined by species and size) prior to lifting or site formation works which affect the existing rootball of trees identified for retention. The extent of the pruning will be based on the size and the species of the tree in each case.	^
	CP1.5	Pruning of the branches of existing trees identified for transplantation and retention to be based on the principle of crown thinning maintaining their form and amenity value.	^
	CP1.6	The watering of existing vegetation particularly during periods of excavation when the water table beneath the existing vegetation is lowered.	^
	CP1.7	The rectification and repair of damaged vegetation following the construction phase to its original condition prior to the commencement of the works or replacement using specimens of the same species, size and form where appropriate to the design intention of the area affected	N/A
	CP1.8	All works affecting the trees identified for retention and transplantation will be carefully monitored. This includes the key stages in the preparation of the trees, the	٨

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		implementation of protection measures and health monitoring throughout the	
		construction period	
	CP1.9	Detailed landscape and tree preservation proposals will be submitted to the relevant	N/A
		government departments for approval under the lease conditions and in accordance	
		with ETWB TCW No. 2/2004 and WB Technical Circular No. 14/2002.	
	CP2.0	The tree preservation works should be implemented by approved Landscape	^
		Contractors and inspected and approved on site by a qualified Landscape Architect.	
		A tree protection specification would be included within the contract documents.	
	CP2.1	Topsoil disturbed during the construction phase should be tested using a standard soil	^
		testing methodology and where it is found to be worthy of retention stored for re-use.	
	CP2.2	The soil will be stockpiled to a maximum height of 2m and will be either temporarily	^
		vegetated with hydroseeded grass during construction or covered with a waterproof	
		covering to prevent erosion.	
	CP2.3	The stockpile should be turned over on a regular basis to avoid acidification and the	^
		degradation of the organic material, and reused after completion. Alternatively, if	
		this is not practicable, it should be considered for use elsewhere, including other	
		projects.	
	CP3.1	Where appropriate to the final design the landscape of these works areas should be	N/A
		restored following the completion of the construction phase.	
	CP3.2	Construction site controls should be enforced including the storage of materials, the	^
		location and appearance of site accommodation and the careful design of site lighting	
		to prevent light spillage.	
	CP3.3	Screen the works area during the construction phase through the use of decorative	^
		hoarding along the site boundary facing adjacent VSRs	
	CP4.1	Replanting of disturbed vegetation should be undertaken at the earliest possible stage	^
		of the construction phase	
	CP4.2	Use of native plant species predominantly in the planting design for the buffer areas.	۸
	CP4.3	The tree planting works should be implemented by approved Landscape Contractors	^

EIA Ref.	EM&A Ref.	EM&A Ref.Mitigation Measures				
		and inspected and approved on site by a qualified Landscape Architect. A tree planting specification would be included within the contract documents				
	CP5.1	The tree transplanting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection / transplanting specification would be included within the contract documents.	^			
	CP5.2	The implementation program should reserve enough time for advance tree transplanting preparation.	^			

Remarks:	EM&A Manual for Stage 1 Works under EP-450/2013/A (App No.: VEP-478/2015)						
	EM&A Manual for Stage 2 Works under EP-50	01/2015 (App No.: AEP-501/2015)					
	Compliance of mitigation measure; X Non-compliance of mitigation measure;						
	N/ANot Applicable at this stage;N/A(1)Not observed;	• Non-compliance but rectified by the contractor;					
	* Recommendation was made during site audit but improved/rectified by the contractor.						

APPENDIX J SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFIATION OF SUCCESSFUL PROSECUTION

# Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Appendix J – Summary of environmental complaint, warning, summon and notification of successful prosecution

**Reporting Month**: February 2017

### Contract No. YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

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

APPENDIX K SUMMARY OF WASTE GENERATION AND DISPOSAL RECORDS

#### Sang Hing – Kuly Joint Venture Environmental Management Plan for Contract No. YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Name of Department: CEDD

Contract No.: YL/2015/01

	Wonting Summary Waste Flow Table Iol <u>2017</u> (Tear)												
	A	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly				
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse		
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )		
Jan	0.04	-	-	-	0.04	0.124	0.05	0.05	0.05	-	0.06		
Feb	0.02	-	-	-	0.02	_	0.05	0.05	0.05	-	0.01		
Mar	-	-	-	-	-	-	-	-	-	-	-		
Apr	-	-	-	-	-	-	-	-	-	-	-		
May	-	-	-	-	-	-	-	-	-	-	-		
June	-	-	-	-	-	-	-	-	-	-	-		
Sub-total	0.06	-	-	-	0.06	0.124	0.1	0.1	0.1	-	0.07		
July	-	-	-	-	-	-	-	-	-	-	-		
Aug	-	-	-	-	-	-	-	-	-	-	-		
Sept	-	-	-	-	-	-	-	-	-	-	-		
Oct	-	-	-	-	-	-	-	-	-	-	-		
Nov	-	-	-	-	-	_	-	-	-	-	-		
Dec	-	-	-	-	-	-	-	-	-	-	-		
Total	0.04	-	-	-	0.04	0.124	0.05	0.05	0.05	-	0.06		

## Monthly Summary Waste Flow Table for <u>2017</u> (Year)

\*Remark: Imported Fill not taken into account of Total Quantity Generated

#Revised Figure

#### Sang Hing – Kuly Joint Venture Environmental Management Plan for Contract No. YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

	Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse	
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )	
5	2	1	1	1	10	3	3	1	1	3	

### \*Remark: Figure to be revised if necessary

Notes:

(1) The performance targets are given in ETWB Technical Circular PS Clause 6(14).

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

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

(4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m3. (ETWB Technical Circular PS Clause 5(4)(b) refers). [Delete Note (4) and the table above on the forecast, where inapplicable].