


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)**

March 2017

Approved By



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Environmental Team Leader)

REMARKS:

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

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

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EXECUTIVE SUMMARY

Introduction

1. This is the 5th 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 – 31 March 2017.
2. During the reporting month, the major site activities undertaken in the reporting month included:
 - 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, F, 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;
 - Utilities diversion works in Portions A, B, C, D, E, F, G, H and N;
 - 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**.

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

Parameter	No. of Exceedance		Action Taken
	Action Level	Limit Level	
Noise	0	0	N/A

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	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0	---	N/A	N/A	---
Reporting Changes	0	---	N/A	N/A	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---

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 23th November 2016. This is the 5th Monthly EM&A Report summarizing the EM&A works for the Project from 1 – 31 March 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**.

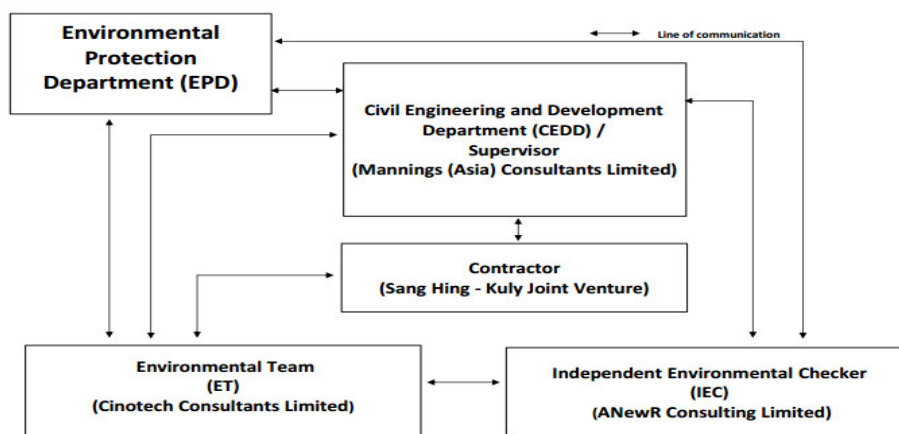


Figure 3 Organization Structure (Environmental Aspects)

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

Table 1.1 Key Project Contacts

Party	Role	Contact Person	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

Construction Activities undertaken during the Reporting Month

1.9 The major site activities undertaken in the reporting month included:

- 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, F, 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;
- Utilities diversion works in Portions A, B, C, D, E, F, G, H and N;
- 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 1.2 Construction Programme Showing the Inter-Relationship with Environmental Protection/Mitigation Measures

Construction Works	Major Environmental Impact	Control Measures
As mentioned in Section 1.8	Noise, dust impact, water quality and waste generation	<ul style="list-style-type: none"> • Sufficient watering of the works site with active dust emitting activities • Properly cover the stockpiles • On-site waste sorting and implementation of trip ticket system • Appropriate desilting/sedimentation devices provided on site for treatment with valid Discharge License before discharge • Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall • Use of quiet plant and well-maintained construction plant • Provide movable noise barrier • Proper wheel washing for construction vehicles before leaving the site • Provide sufficient mitigation measures as recommended in Approved EM&A Manual/Lease requirement

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 – 31 March 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.

Table 4.1 Noise Monitoring Stations

Monitoring Stations	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

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**.

Table 4.2 Noise Monitoring Equipment

Equipment	Model and Make	Qty.
Integrating Sound Level Meter	SVAN 957, 977	4

Acoustic Calibrator	SV30A, B&K4231	4
Sound and Vibration Analyzer	BSWA 801	1

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**.

Table 4.3 Frequency and Parameters of Noise Monitoring

Monitoring Stations	Parameter	Period	Frequency	Measurement
N1	L _{eq} (30 min.) dB(A) L ₁₀ (30 min.) dB(A) L ₉₀ (30 min.) dB(A)	0700-1900 hrs on normal weekdays	Once per week	Façade
N2				Façade
N3				Free Field
N5				Free Field
N6				Façade
N7				Free Field

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}, L₉₀ and L₁₀ 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**.
- 4.14 The other noise sources identified which might affect the noise monitoring results at the designated noise monitoring stations are as follows:

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 at workshops near the village house

Table 4.4 Baseline Noise Level and Noise Limit Level for Monitoring Stations

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 normal weekdays)

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**.

Table 5.1 Comparison of Noise Monitoring Data with Predictions in EIA Report and ERR

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 (Mar 17), L_{eq} (30min) dB(A)
N1 - HKMLC Wong Chan Sook Ying Memorial School	55-62	62 ⁽¹⁾	45.9 – 69.9
N2 – Bethel High School	57-64	64 ⁽¹⁾	45.0 – 69.9
N3 – No. 159 Mai Po San Tsuen	70-73	74 ⁽²⁾	58.6 – 73.7
N5 – Block 2, Dills Corner Garden	73-75	75 ⁽²⁾	54.4 – 72.3
N6 – Home of Loving Faithfulness	64-73	74 ⁽¹⁾	65.1 – 72.2
N7 – Village House in Shek Wu Wai	N/A ⁽³⁾	70 ⁽²⁾	66.8 – 75.0

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 (N5) were lower than the predicted mitigated construction noise levels in the EIA Report. The noise monitoring results in the reporting month at monitoring stations (N3) was slightly lower than the predicted mitigated construction noise levels in the EIA Report. The noise monitoring results in the reporting month at monitoring stations (N1 and N2) were higher than the predicted mitigated construction noise levels in the EIA Report. The noise monitoring results at 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 (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 N1, N2 and N7 in the reporting month were 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, 21 and 29 March 2017 in the reporting month. IEC joint site inspection was conducted on 21 March 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**.

Table 10.1 Summary of Environmental Licensing and Permit Status

Permit No.	Valid Period		Details	Status
	From	To		
Environmental Permit (EP)				
EP-450/2013/A	25/08/ 15	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	Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2	Valid
Billing Account for Construction Waste Disposal				
A/C No.: 7025411	N/A	N/A	Billing Account for construction waste disposal under Waste Disposal (Charges for Disposal of Construction Waste) Regulation	Valid
Effluent Discharge License				
WT00027672-2017	--	31/3/2022	Discharge License for the discharge of wastewater from the construction site including contaminated surface run-off to the communal storm water drain	Valid
WT00027661-2017				
WT00027606-2017				
WT00027510-2017				
WT00027509-2017				
WT00027603-2017				
WT00027508-2017				
WT00027582-2017				

Permit No.	Valid Period		Details	Status
	From	To		
WT00027584-2017	--	31/7/2019		Valid
WT00027605-2017		31/3/2022		
WT00027607-2017				
Registration of Chemical Waste Producer				
No.:WPN5213-524-K3261-01	--	N/A	Registration of chemical waste producer for chemical waste produced during construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2	Valid
Construction Noise Permit (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**.

Table 10.2 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
<i>Water Quality</i>	21, 28 Feb, 8, 15 and 21 Mar 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.	Rectification/improvement was observed during the follow-up audit session.
	29 Mar 2017	Wheel washing bays in Portion C and K were found silty and containing some litters, the water should be replaced or maintained more frequently to ensure clean water is used for wheel washing of vehicles.	Follow up actions will be reported in the next month.
	15 and 21 Mar 2017	Sandbag bund should be provided next to the wheel washing bay in Portion C to avoid silty runoff out of the Site boundary.	Rectification/improvement was observed during the follow-up audit session.
<i>Air Quality</i>	21, 28 Feb, 8 and 15 Mar 2017	To provide frequent water spray to unpaved area in Portion K.	Rectification/improvement was observed during the follow-up audit session.
	28 Feb, 8, 15 and 29 Mar 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.
<i>Noise</i>	N/A	There was no observation in the reporting period.	N/A
<i>Waste / Chemical Management</i>	21, 28 Feb and 21 Mar 2017	To clear the oil stain in unpaved area in Portion K.	Rectification/improvement was observed during the follow-up audit session.
	28 Feb, 8, 15, 21, 29 Mar 2017	Drip tray should be provided to chemical containers in Portion E, K and Works Area 3.	Follow up actions will be reported in the next month.
	28 Feb, 8 and 15 Mar 2017	To avoid the accumulation of general refuse and clear the waste properly at Portion K.	Rectification/improvement was observed during the follow-up audit session.

Parameters	Date	Observations and Recommendations	Follow-up
	29 Mar 2017	Rubbish bins or waste collectors should be provided in Portion C for proper disposal and storage of solid waste.	Follow up actions will be reported in the next month.
<i>Ecology and Fisheries</i>	N/A	There was no observation in the reporting period.	N/A
<i>Landscape and Visual</i>	8, 15, 21 and 29 Mar 2017	Fencing of tree protection zones in Works Area 3 should be provided to protect all existing trees.	Follow up actions will be reported in the next month.
<i>Permits/ Licenses</i>	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 Portion G, H, J and N;
- Construction of wheel washing facilities in Portions B;
- Ground investigation in Portions E, F, H and J;
- Construction of RC structure and public toilet in Portion L;
- Tree felling in Portions G, H, J 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, 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. April 2017 to May 2017, are summarized as follows:

Construction Works	Major Impact Prediction	Control Measures
As mentioned in Section 9.1	Air quality impact (dust)	(a) Frequent watering of haul road and unpaved/exposed areas; (b) Frequent watering or covering stockpiles with tarpaulin or similar means; and (c) Watering of any earth moving activities.
	Water quality impact (surface run-off)	(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; (e) Provision of adequate de-silting facilities for treating surface run-off and other collected

		effluents prior to discharge; (f) Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and (g) Provision of measures to prevent discharge into the stream.
	Noise impact	(h) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; (i) Controlling the number of plants use on site; (j) Regular maintenance of machines (k) Use of quiet PME's on-site; and (l) Use of acoustic barriers and noise enclosure if necessary.
	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 inspections were conducted in the reporting month.

Complaint and Prosecution

- 10.4 No environmental complaints and environmental prosecution was 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 roads 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.

Water Quality

- Wheel washing bays in all Portions within the Site should be maintained as far as practicable by means of removing silty water or using cleaner water in order to enhance the effectiveness of wheel washing in every portion within the Site.
- Sandbag bund at site boundary and wheel washing bays should be enhanced to prevent any runoff to public area during rainy season.

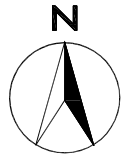
Waste/Chemical Management

- 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.

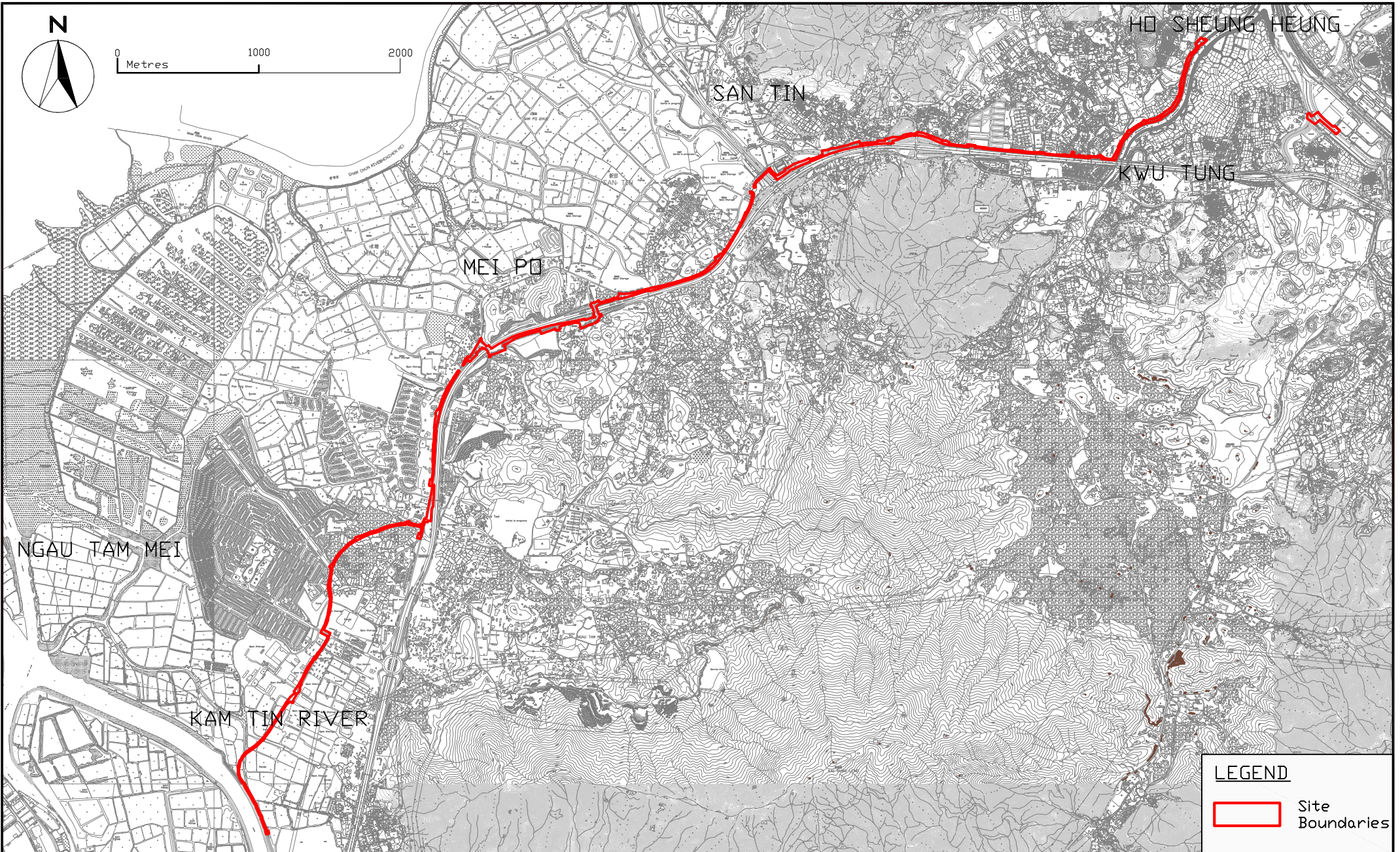
Landscape and Visual

- Adequate tree protection zones should be established to protect retained and existing trees. Conspicuous signs of status of trees should be clearly shown to avoid damage from PME's or workers.

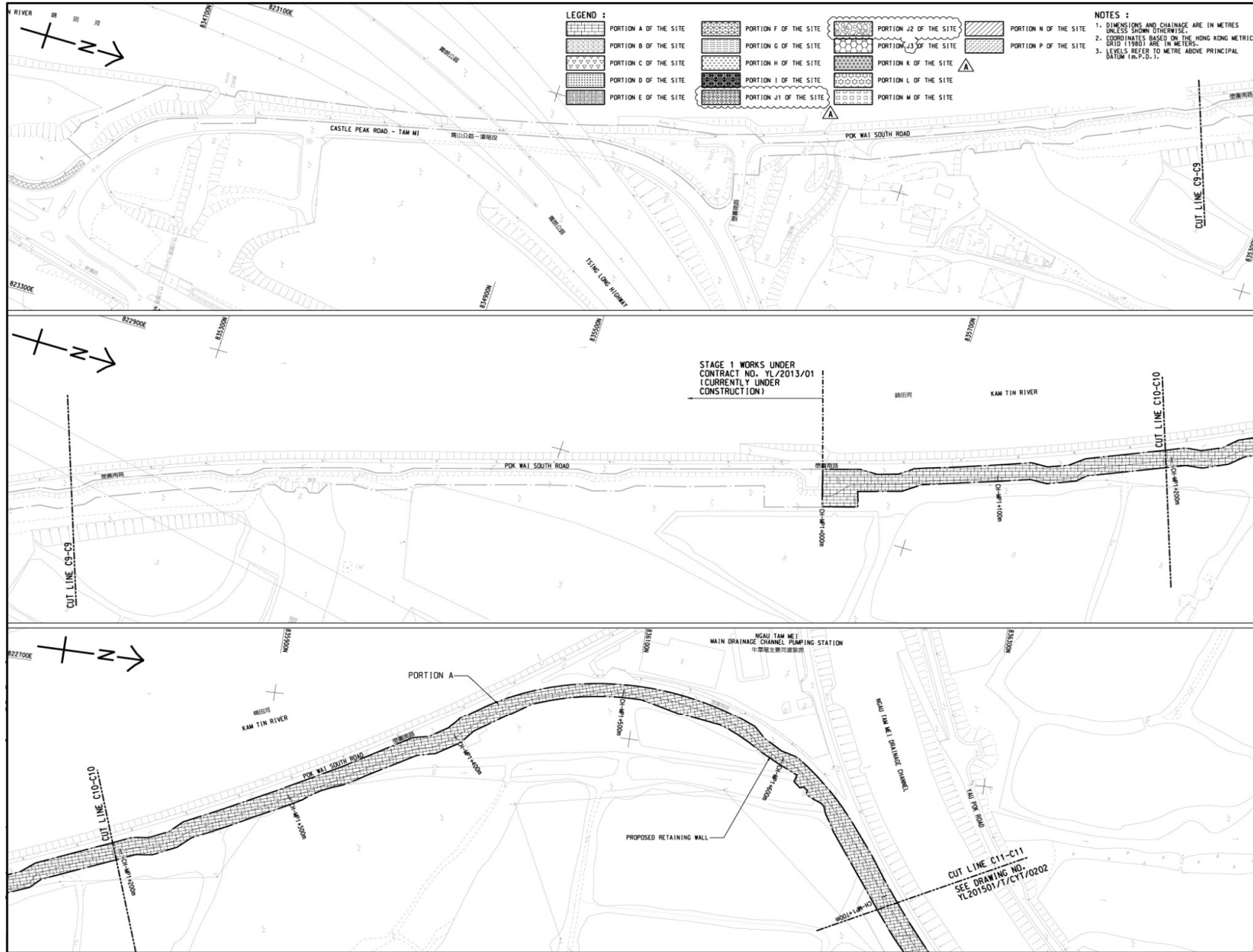
FIGURES



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JOB No.	MA16036	FIGURE NO.	1a	REV	-

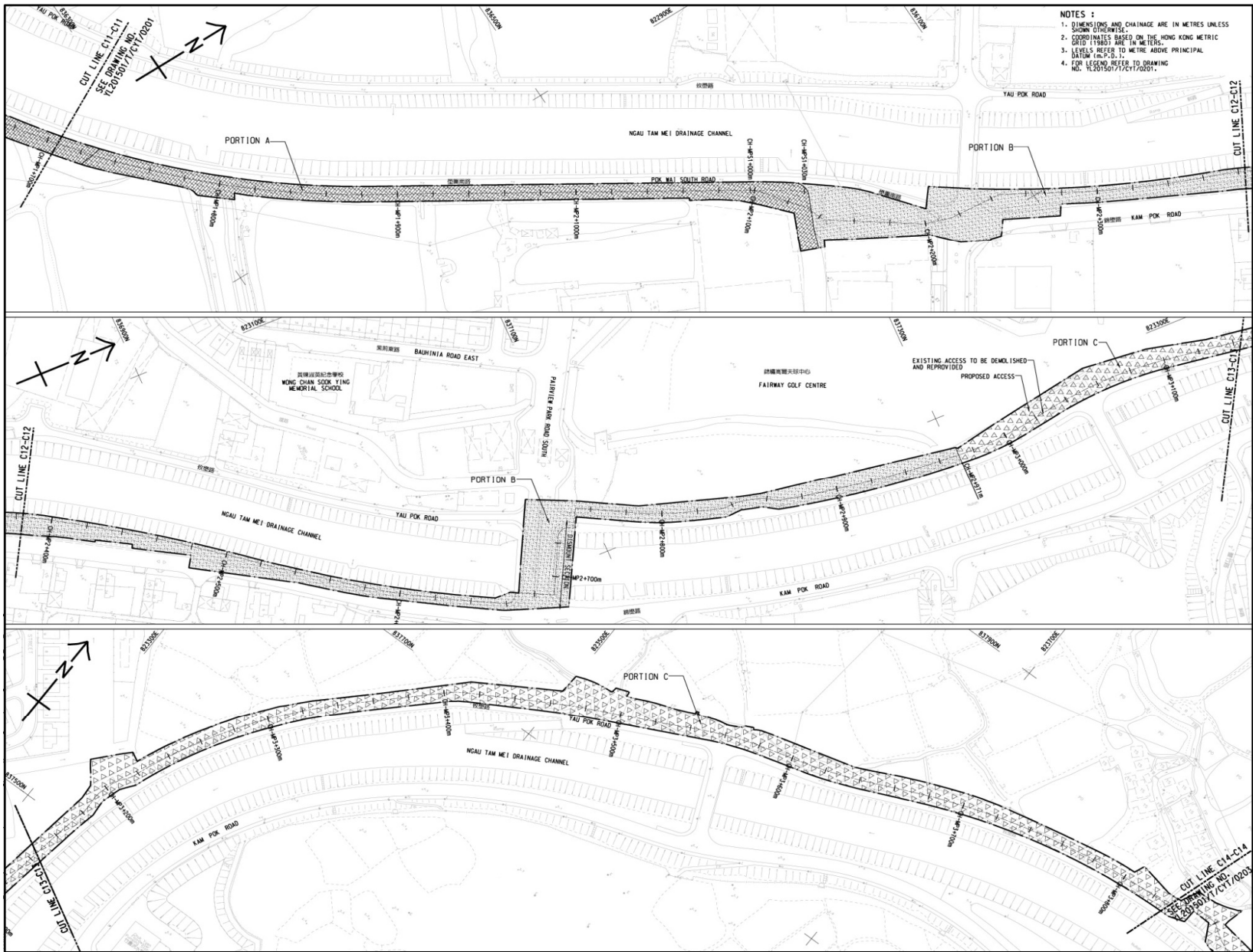


Title

Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1b

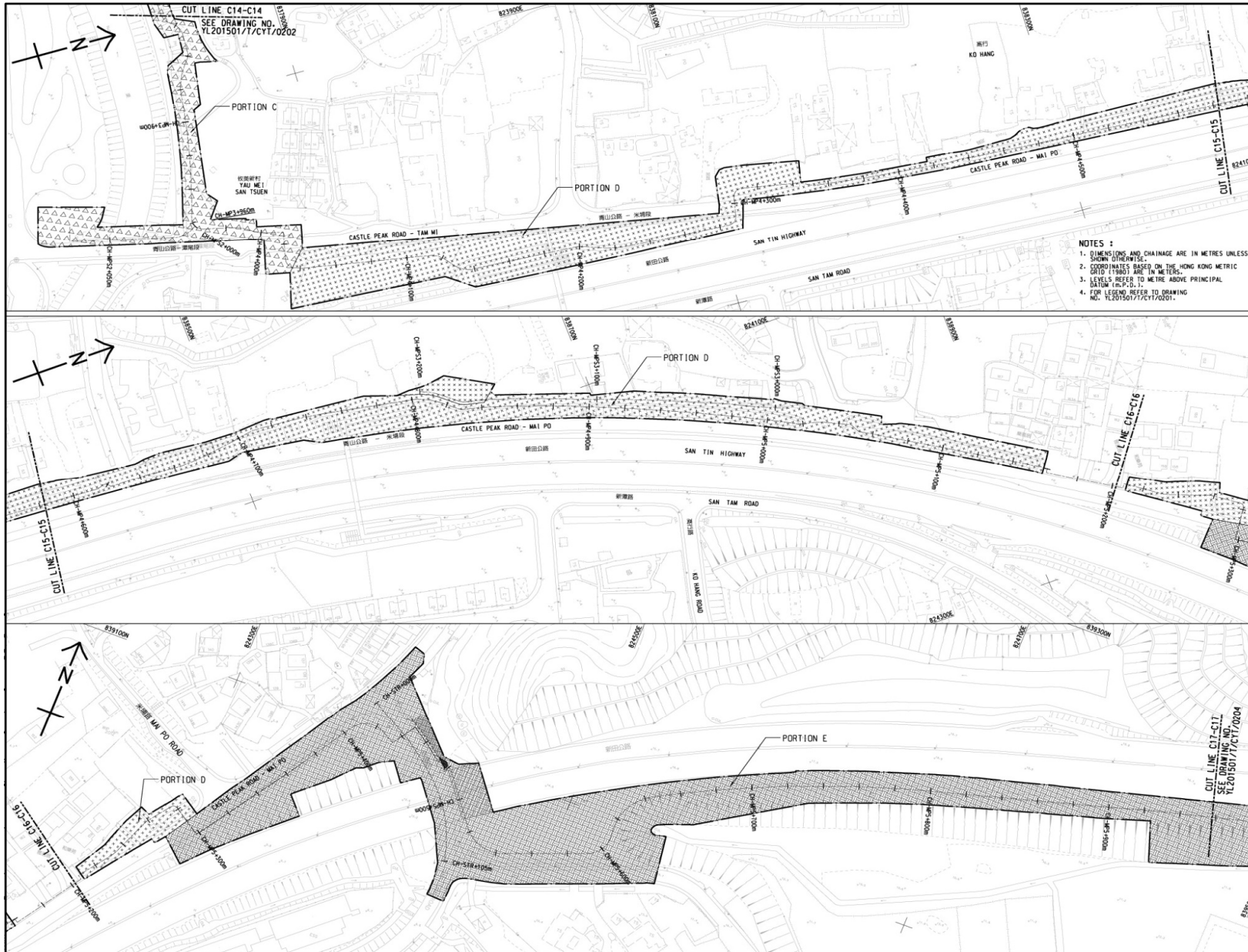
CINOTECH



Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1c



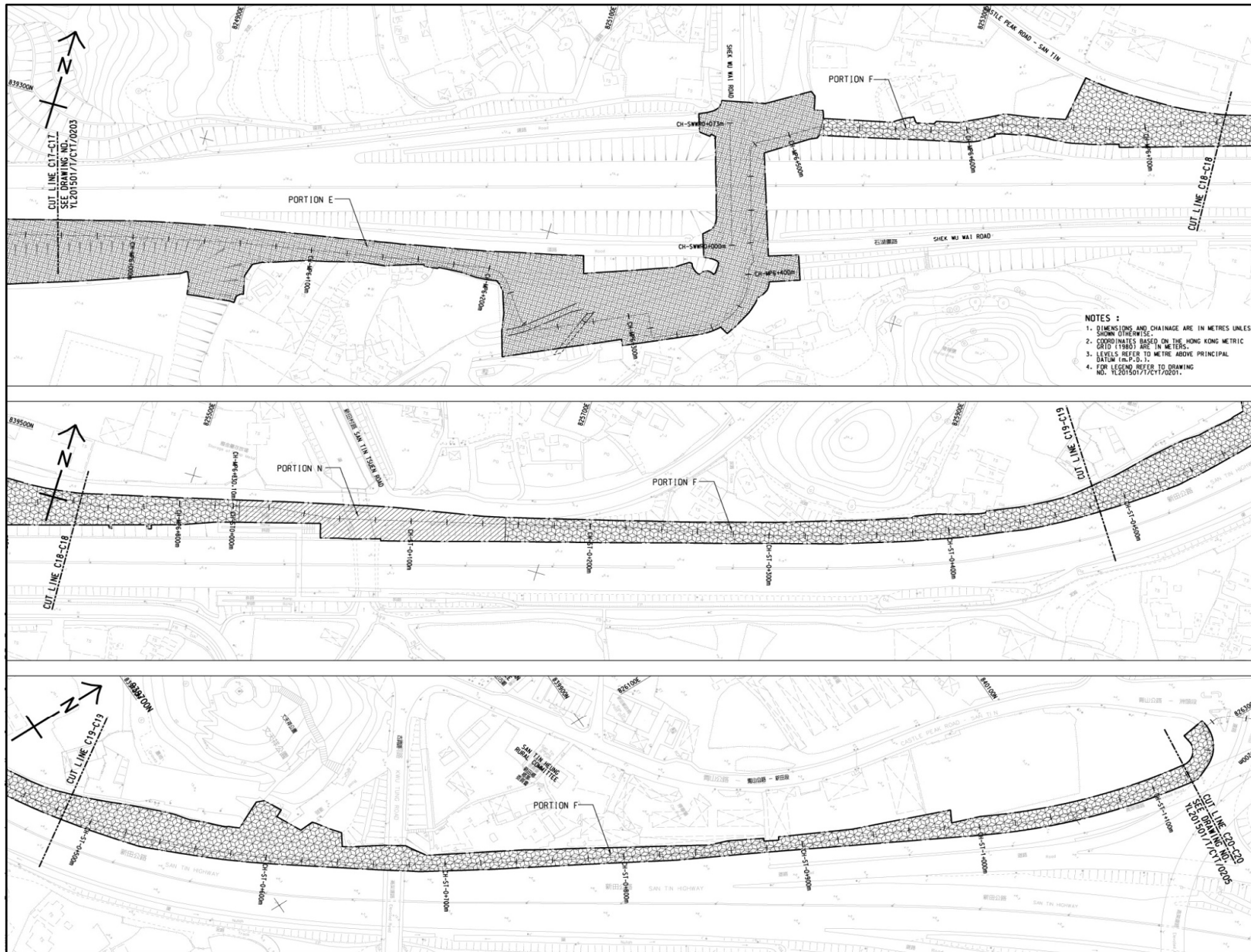


Title

Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1d





Title

Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale

N.T.S

Date

Dec-16

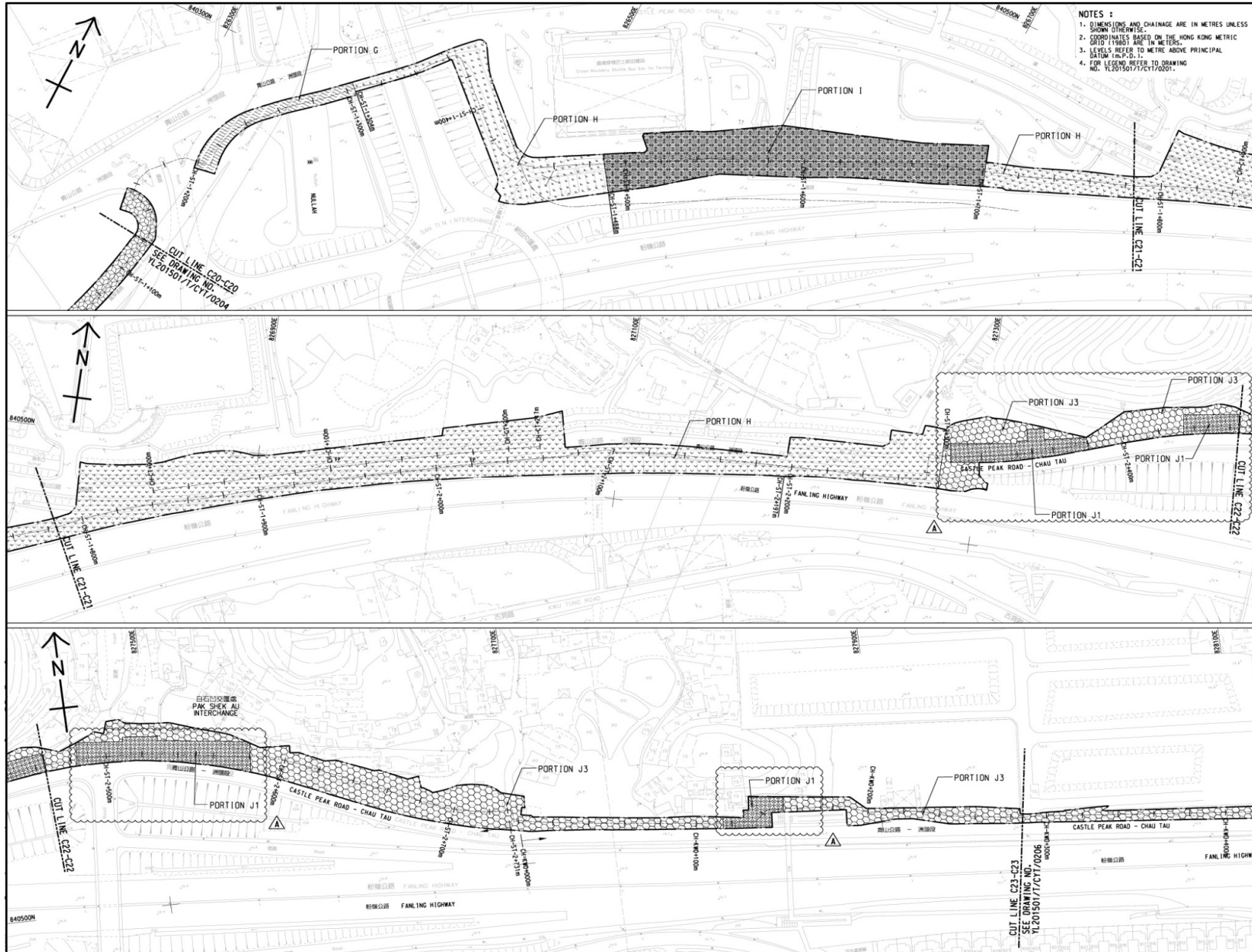
Project

No. MA16036

Figure

1e



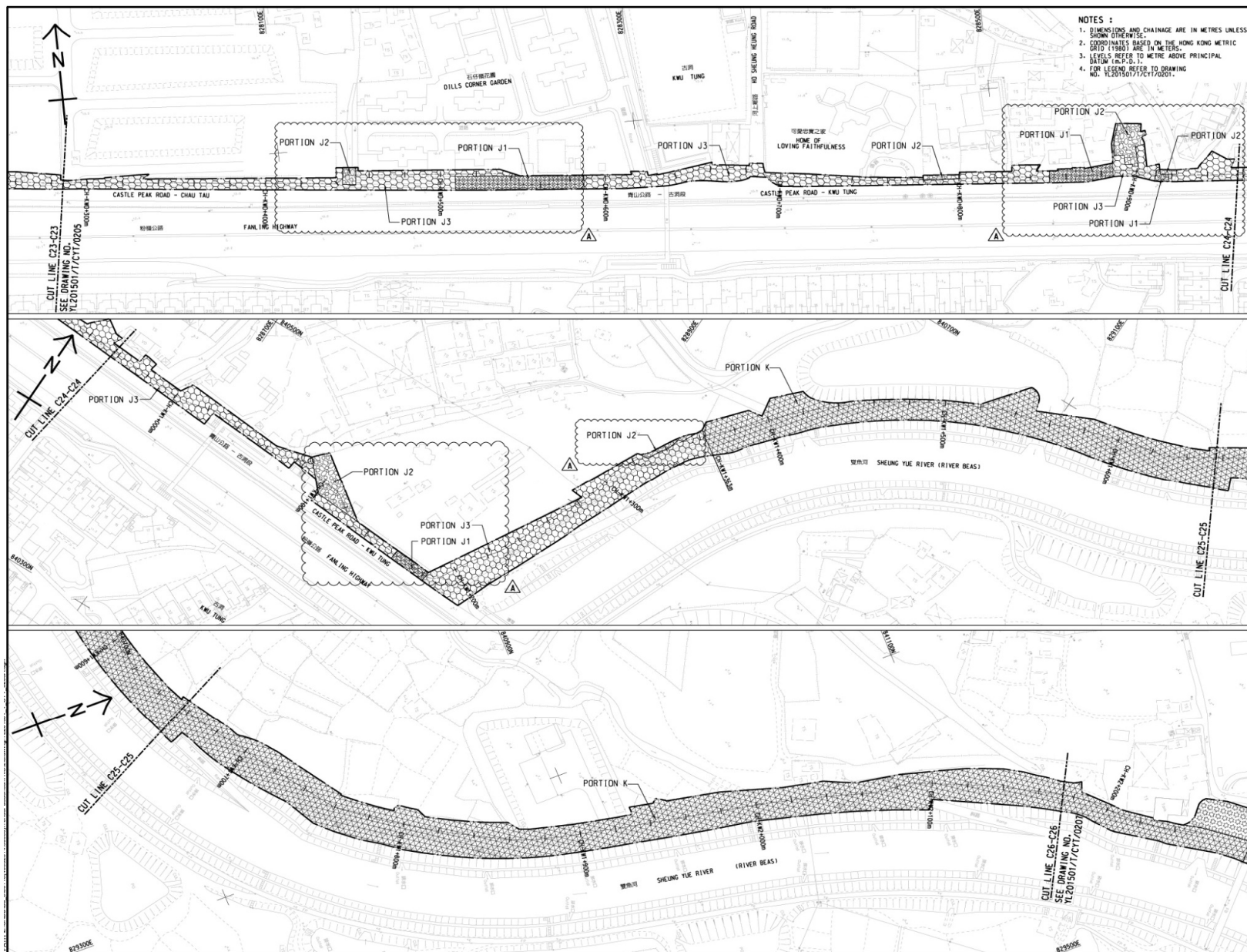


Title

Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1f

CINOTECH



Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1g





Title


Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan


Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1h





LEGEND

 Site Boundary

 Noise Monitoring Stations



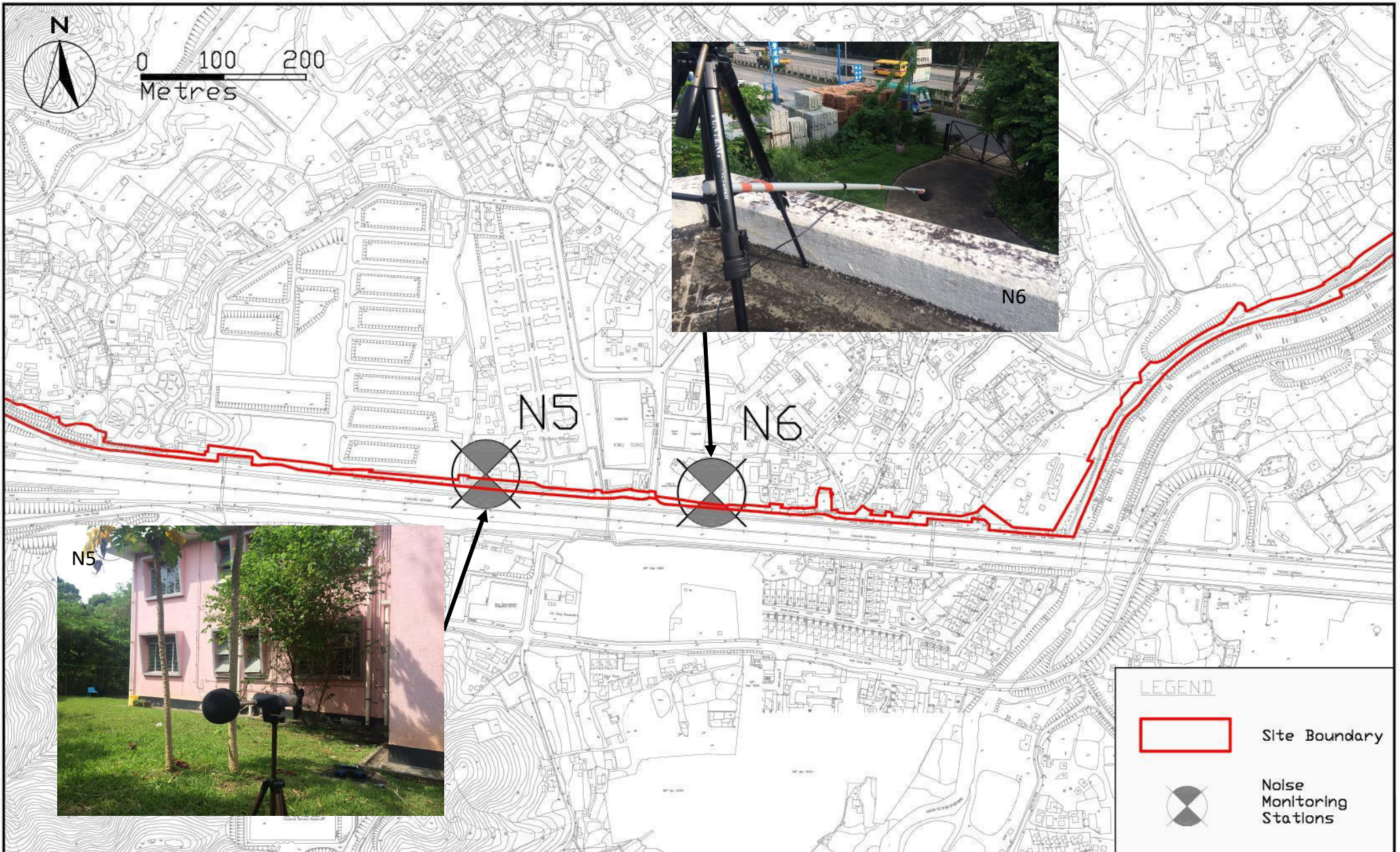
Agreement No. CE 67/2015(HY) - Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction

Locations of the Noise Monitoring Stations (N1, N2)

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JOB No.	MA16036	FIGURE NO.	2a
		REV	-

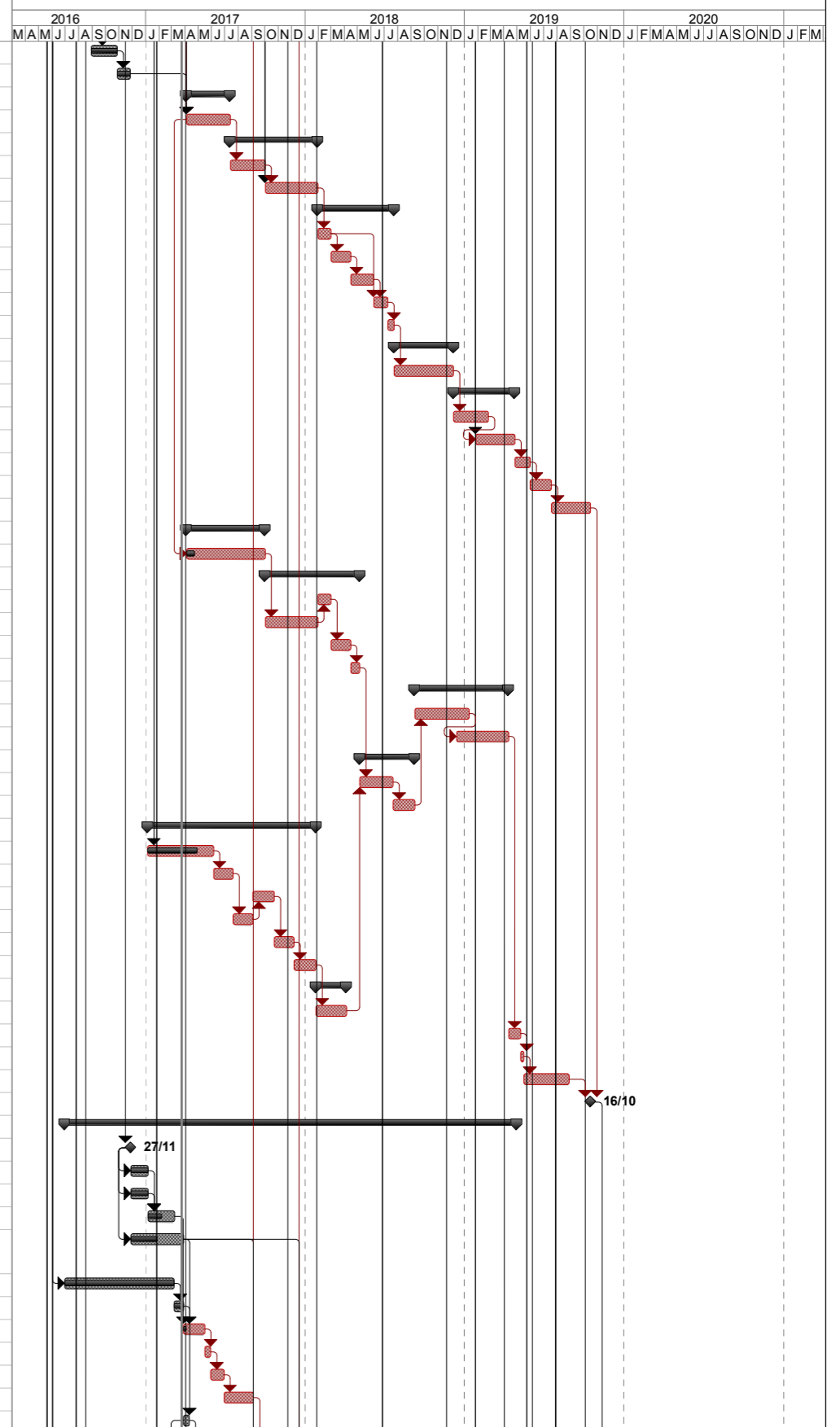


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JOB No.	MA16036	FIGURE NO.	2b
		REV	-



**APPENDIX A
WORK PROGRAMME**

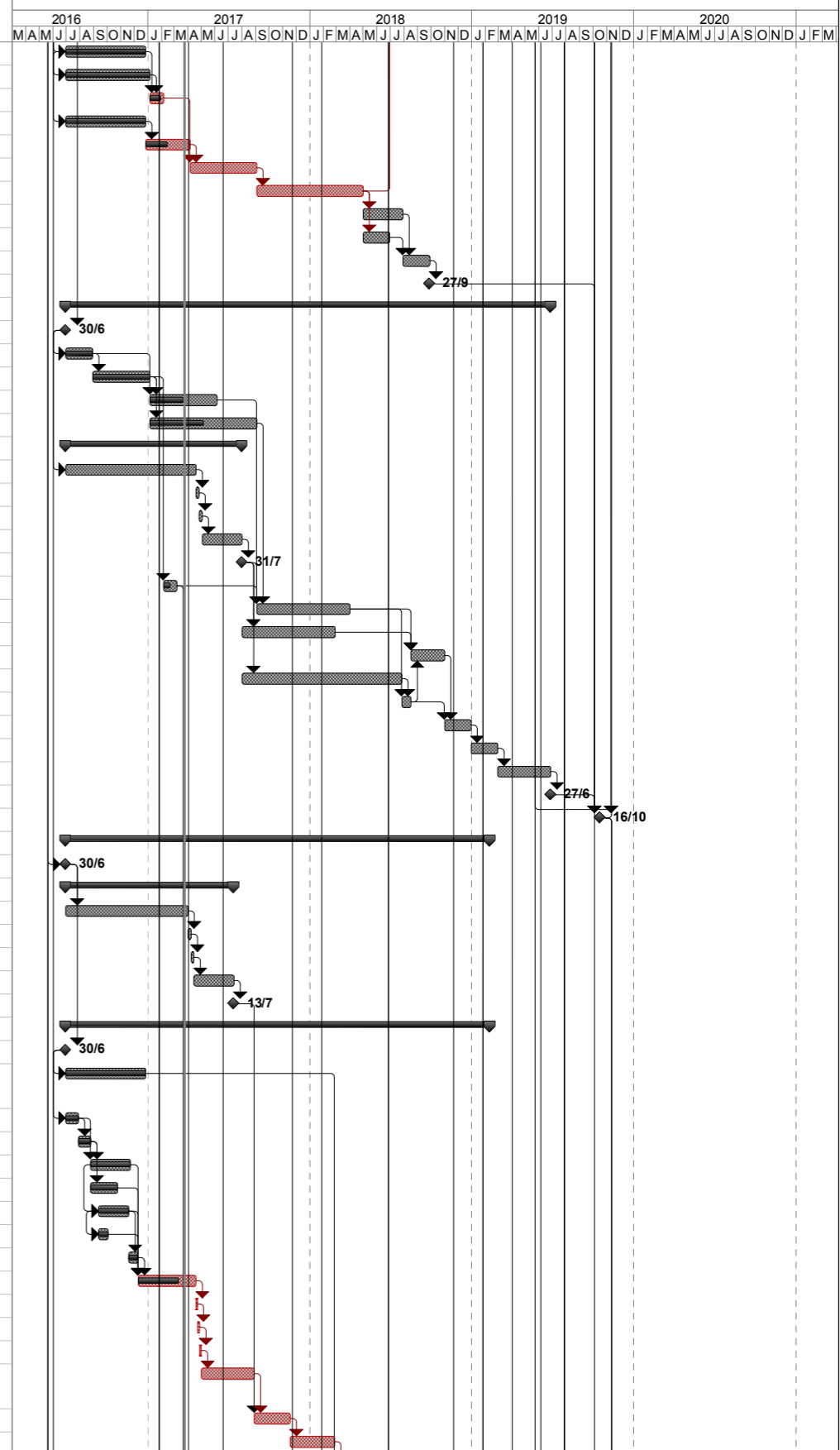
ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	2016												2017												2018												2019												2020												
									M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M
178	PREPARATION OF TDMP FOR BOX CULVERTS	60 days	5 days	Mon 29/8/16	Thu 27/10/16	0 days	100%	168																																																													
179	APPROVAL OF TDMP BY SUPERVISOR/DSD	30 days	3 days	Fri 28/10/16	Sat 26/11/16	0 days	100%	178																																																													
180	MP 5+465 - MP 5+515	100 days		Wed 5/4/17	Thu 13/7/17	-107 days	0%																																																														
181	RETAINING WALL - RW D02 & D04 (80M)	100 days	7 days	Wed 5/4/17	Thu 13/7/17	-107 days	0%	171,177,179,173FS+30 days,175,160																																																													
182	MP 5+515 - MP 5+595	200 days		Fri 14/7/17	Mon 29/1/18	-107 days	0%																																																														
183	RETAINING WALL - RW D05 & D06 (50M)	80 days	7 days	Fri 14/7/17	Sun 1/10/17	-107 days	0%	181																																																													
184	RETAINING WALL - RW D07 (70M) (CSD)	120 days	10 days	Mon 2/10/17	Mon 29/1/18	-107 days	0%	183,172,166FS-45 days																																																													
185	MP 5+280 - MP 6+020	175 days		Tue 30/1/18	Mon 23/7/18	-107 days	0%																																																														
186	RETAINING WALL - RW D03 (11M)	30 days	3 days	Tue 30/1/18	Wed 28/2/18	-107 days	0%	184																																																													
187	BOX CULVERT D4	45 days	4 days	Thu 1/3/18	Sat 14/4/18	-107 days	0%	186																																																													
188	EARTHWORKS AND DRAINAGE WORKS	53 days	5 days	Sun 15/4/18	Wed 6/6/18	-107 days	0%	187																																																													
189	ROAD WORKS FOR REALIGNMENT	32 days	3 days	Thu 7/6/18	Sun 8/7/18	-107 days	0%	188,186																																																													
190	REALIGNMENT SAN TAM ROAD	15 days	2 days	Mon 9/7/18	Mon 23/7/18	-107 days	0%	189																																																													
191	MP 5+900 - MP 6+020	136 days		Tue 24/7/18	Thu 6/12/18	-107 days	0%																																																														
192	RETAINING WALL - RW D15 (113M) (CSD)	136 days	10 days	Tue 24/7/18	Thu 6/12/18	-107 days	0%	190																																																													
193	MP 5+ 595 - MP 5+900	140 days		Fri 7/12/18	Thu 25/4/19	-107 days	0%																																																														
194	RETAINING WALL - RW D10 (50M) (CSD)	80 days	7 days	Fri 7/12/18	Sun 24/2/19	-107 days	0%	192																																																													
195	RETAINING WALL - RW D08 (66M) (CSD)	90 days	8 days	Sat 26/1/19	Thu 25/4/19	-107 days	0%	194FS-30 days,172																																																													
196	NCE EFFECT ON ADDED WATER STOP	35 days		Fri 26/4/19	Thu 30/5/19	-107 days	0%	195																																																													
197	NCE EFFECT ON ADDED CHAMFER	49 days		Fri 31/5/19	Thu 18/7/19	-107 days	0%	196																																																													
198	REMAINING EARTHWORKS AND ROAD WORKS	90 days	8 days	Fri 19/7/19	Wed 16/10/19	-107 days	0%	197																																																													
199	MP 6+420 - MP 6+530	180 days		Wed 5/4/17	Sun 1/10/17	0 days	10%																																																														
200	RETAINING WALL - RW D25 & D26 (100M)	180 days	14 days	Wed 5/4/17	Sun 1/10/17	-57 days	10%	181SS																																																													
201	MP 6+020 - MP 6+530	216 days		Mon 2/10/17	Sat 5/5/18	-57 days	0%																																																														
202	BOX CULVERT D7	30 days	3 days	Tue 30/1/18	Wed 28/2/18	-57 days	0%	203																																																													
203	EARTHWORKS AND DRAINAGE WORKS	120 days	10 days	Mon 2/10/17	Mon 29/1/18	-57 days	0%	200																																																													
204	ROAD WORKS FOR REALIGNMENT	45 days	4 days	Thu 1/3/18	Sat 14/4/18	-57 days	0%	202																																																													
205	REALIGNMENT SHEK WU WAI ROAD	21 days	2 days	Sun 15/4/18	Sat 5/5/18	-57 days	0%	204																																																													
206	MP 6+020 - MP 6+160	215 days		Sun 9/9/18	Thu 11/4/19	-57 days	0%																																																														
207	RETAINING WALL - RW D18 (98M)	125 days	10 days	Sun 9/9/18	Fri 11/1/19	-57 days	0%	211																																																													
208	RETAINING WALL - RW D17 (65M)	120 days	10 days	Thu 13/12/18	Thu 11/4/19	-57 days	0%	207FS-30 days																																																													
209	MP 6+160 - MP 6+230	126 days		Sun 6/5/18	Sat 8/9/18	-57 days	0%																																																														
210	RETAINING WALL - RW D19A, B (53M)	76 days	7 days	Sun 6/5/18	Fri 20/7/18	-57 days	0%	205,220FS+7 days																																																													
211	RETAINING WALL - RW D20 (U) (22M)	50 days	5 days	Sat 21/7/18	Sat 8/9/18	-57 days	0%	210																																																													
212	MP 6+230 - MP 6+330	385 days		Fri 6/1/17	Thu 25/1/18	-34 days	29%																																																														
213	RECTANGULAR CHANNEL	150 days	10 days	Fri 6/1/17	Sun 4/6/17	-34 days	75%	170																																																													
214	BOX CULVERT D5	45 days	4 days	Mon 5/6/17	Wed 19/7/17	-34 days	0%	213																																																													
215	RETAINING WALL - RW D21(U) (26M)	50 days	4 days	Sun 3/9/17	Sun 22/10/17	-34 days	0%	216																																																													
216	BOX CULVERT D6	45 days	4 days	Thu 20/7/17	Sat 2/9/17	-34 days	0%	214																																																													
217	RETAINING WALL - RW D22 (U) (26M)	45 days	4 days	Mon 23/10/17	Wed 6/12/17	-34 days	0%	215																																																													
218	RETAINING WALL - RW D23 (U) (21M)	50 days	4 days	Thu 7/12/17	Thu 25/1/18	-34 days	0%	217																																																													
219	MP 6+372 - MP 6+410	70 days		Fri 26/1/18	Thu 5/4/18	-34 days	0%																																																														
220	RETAINING WALL - RW D24 (44M)	70 days	7 days	Fri 26/1/18	Thu 5/4/18	-34 days	0%	218																																																													
221	NCE EFFECT ON ADDED WATER STOP	27 days		Fri 12/4/19	Wed 8/5/19	-57 days	0%	208																																																													
222	NCE EFFECT ON ADDED CHAMFER	7 days		Thu 9/5/19	Wed 15/5/19	-57 days	0%	221																																																													
223	REMAINING EARTHWORKS AND ROAD WORKS	104 days	10 days	Thu 16/5/19	Tue 27/8/19	-57 days	0%	222																																																													
224	COMPLETION OF PORTION E	0 days		Wed 16/10/19	Wed 16/10/19	-107 days	0%	223,198																																																													
225	PORTION F (MP 6+530 - MP 6+850, CH ST 0+150 - CH ST 1+150)	1035 days		Thu 30/6/16	Tue 30/4/19	62 days	28%																																																														
226	POSSESSION OF SITE	0 days		Sun 27/11/16	Sun 27/11/16	0 days	100%	159FS+151 days																																																													
227	INITIAL SURVEY	40 days	4 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	226SS																																																													
228	TREE SURVEY	40 days	4 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	226SS																																																													
229	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	5 days	Sat 7/1/17	Tue 7/3/17	27 days	50%	228,227																																																													
230	UTILITIES DIVERSION WORKS (CLP, CATV, NTT, TOWN GAS, HKBB & TGT)	120 days	0 day	Mon 28/11/16	Mon 27/3/17	14 days	50%	226SS																																																													
231	INSTRUCTION FOR SITE INVESTIGATION FOR CONTAMINATED SITE	250 days		Thu 30/6/16	Mon 6/3/17	0 days	100%	2SS																																																													
232	ARRANGEMENT OF SITE INVESTIGATION WORKS	21 days	2 days	Tue 7/3/17	Mon 27/3/17	0 days	100%	231																																																													
233	SITE INVESTIGATION WORKS AND TESTING	49 days	3 days	Tue 28/3/17	Mon 15/5/17	-105 days	14%	232,229																																																													
234	INSTRUCTION FOR REMEDIAL WORK FOR CONTAMINATED SOIL	14 days	2 days	Tue 16/5/17	Mon 29/5/17	-105 days	0%	233																																																													
235	ARRANGEMENT OF REMEDIAL WORKS	30 days	3 days	Tue 30/5/17	Wed 28/6/17	-105 days	0%	234																																																													
236	IMPLEMENTATION OF REMEDIAL WORKS	68 days	5 days	Thu 29/6/17	Mon 4/9/17	-105 days	0%	235																																																													
237	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	14 days	2 days	Tue 28/3/17	Mon 10/4/17	14 days	0%	230																																																													



Task		Summary		External Milestone		Inactive Summary		Manual Summary Rollup		Finish-only		Progress	
Split		Project Summary		Inactive Task		Manual Task		Manual Summary		Critical		Deadline	
Milestone		External Tasks		Inactive Milestone		Duration-only		Start-only		Critical Split			

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	Gantt Chart (2016-2020)											
298	INITIAL SURVEY	180 days	14 days	Thu 30/6/16	Mon 26/12/16	0 days	100%	297SS	[Gantt bar for 298: Thu 30/6/16 to Mon 26/12/16, 100% complete]											
299	TREE SURVEY	190 days	14 days	Thu 30/6/16	Thu 5/1/17	0 days	100%	298SS	[Gantt bar for 299: Thu 30/6/16 to Thu 5/1/17, 100% complete]											
300	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	30 days	2 days	Fri 6/1/17	Sat 4/2/17	-3 days	80%	299,298	[Gantt bar for 300: Fri 6/1/17 to Sat 4/2/17, 80% complete]											
301	TTM PREPARATION	180 days	14 days	Thu 30/6/16	Mon 26/12/16	0 days	100%	2SS	[Gantt bar for 301: Thu 30/6/16 to Mon 26/12/16, 100% complete]											
302	TTM APPROVAL BY RSS/TMLG	100 days	5 days	Tue 27/12/16	Wed 5/4/17	-63 days	48%	301	[Gantt bar for 302: Tue 27/12/16 to Wed 5/4/17, 48% complete]											
303	SUBWAY D WITH PUMP ROOM CONSTRUCTION (3BAYS)	150 days	14 days	Thu 6/4/17	Sat 2/9/17	-63 days	0%	302,300	[Gantt bar for 303: Thu 6/4/17 to Sat 2/9/17, 0% complete]											
304	RAMP (14 BAYS)	240 days	21 days	Sun 3/9/17	Mon 30/4/18	-63 days	0%	303	[Gantt bar for 304: Sun 3/9/17 to Mon 30/4/18, 0% complete]											
305	FINISHING WORKS AND E&M WORKS	90 days	7 days	Tue 1/5/18	Sun 29/7/18	277 days	0%	304	[Gantt bar for 305: Tue 1/5/18 to Sun 29/7/18, 0% complete]											
306	EARTHWORKS AND DRAINAGE WORKS	60 days	5 days	Tue 1/5/18	Fri 29/6/18	307 days	0%	304	[Gantt bar for 306: Tue 1/5/18 to Fri 29/6/18, 0% complete]											
307	ROAD WORKS	60 days	5 days	Mon 30/7/18	Thu 27/9/18	277 days	0%	306,305	[Gantt bar for 307: Mon 30/7/18 to Thu 27/9/18, 0% complete]											
308	COMPLETION OF PORTION I	0 days		Thu 27/9/18	Thu 27/9/18	277 days	0%	307	[Milestone for 308: Thu 27/9/18]											
309	PORTION N (BRIDGE B : CSD) CH ST 0.150 - CH ST 1.097)	1093 days		Thu 30/6/16	Thu 27/6/19	4 days	19%		[Summary bar for 309: Thu 30/6/16 to Thu 27/6/19, 19% complete]											
310	POSSESSION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	159	[Milestone for 310: Thu 30/6/16]											
311	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	0 days	100%	310SS	[Gantt bar for 311: Thu 30/6/16 to Sun 28/8/16, 100% complete]											
312	TREE SURVEY	130 days	10 days	Mon 29/8/16	Thu 5/1/17	0 days	100%	311	[Gantt bar for 312: Mon 29/8/16 to Thu 5/1/17, 100% complete]											
313	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	150 days	5 days	Fri 6/1/17	Sun 4/6/17	211 days	50%	312,311	[Gantt bar for 313: Fri 6/1/17 to Sun 4/6/17, 50% complete]											
314	UTILITIES DIVERSION WORKS (HKB, TGT & CLP)	240 days	10 days	Fri 6/1/17	Sat 2/9/17	121 days	50%	312	[Gantt bar for 314: Fri 6/1/17 to Sat 2/9/17, 50% complete]											
315	CONTRACTOR DESIGN FOR FOUNDATION	397 days		Thu 30/6/16	Mon 31/7/17	4 days	0%		[Summary bar for 315: Thu 30/6/16 to Mon 31/7/17, 0% complete]											
316	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD)	293 days		Thu 30/6/16	Tue 18/4/17	4 days	0%	310SS	[Gantt bar for 316: Thu 30/6/16 to Tue 18/4/17, 0% complete]											
317	REVIEW AND APPROVED BY SUPERVISOR	7 days		Wed 19/4/17	Tue 25/4/17	4 days	0%	316	[Gantt bar for 317: Wed 19/4/17 to Tue 25/4/17, 0% complete]											
318	REVIEW AND APPROVED BY PM	7 days		Wed 26/4/17	Tue 2/5/17	4 days	0%	317	[Gantt bar for 318: Wed 26/4/17 to Tue 2/5/17, 0% complete]											
319	REVIEW AND APPROVED BY DSD/HYD	90 days		Wed 3/5/17	Mon 31/7/17	4 days	0%	318	[Gantt bar for 319: Wed 3/5/17 to Mon 31/7/17, 0% complete]											
320	COMMENCEMENT OF SITE WORKS	0 days		Mon 31/7/17	Mon 31/7/17	4 days	0%	319	[Milestone for 320: Mon 31/7/17]											
321	PRE-DRILLING WORKS FOR PILES	30 days	3 days	Sun 5/2/17	Mon 6/3/17	36 days	50%	312FS+30 days	[Gantt bar for 321: Sun 5/2/17 to Mon 6/3/17, 50% complete]											
322	ABUTMENT CONSTRUCTION	210 days	7 days	Sun 3/9/17	Sat 31/3/18	121 days	0%	320,321,313,314	[Gantt bar for 322: Sun 3/9/17 to Sat 31/3/18, 0% complete]											
323	OFFSITE FABRICATION OF BRIDGE MEMBERS	210 days	10 days	Tue 1/8/17	Mon 26/2/18	175 days	0%	320	[Gantt bar for 323: Tue 1/8/17 to Mon 26/2/18, 0% complete]											
324	STEEL TRUSS AND DECK CONSTRUCTION	75 days	7 days	Fri 17/8/18	Tue 30/10/18	4 days	0%	323,322,326	[Gantt bar for 324: Fri 17/8/18 to Tue 30/10/18, 0% complete]											
325	PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	360 days	10 days	Tue 1/8/17	Thu 26/7/18	4 days	0%	320	[Gantt bar for 325: Tue 1/8/17 to Thu 26/7/18, 0% complete]											
326	INSTALLATION OF BEARINGS AND MOVEMENT JOINTS	21 days	2 days	Fri 27/7/18	Thu 16/8/18	4 days	0%	325,322	[Gantt bar for 326: Fri 27/7/18 to Thu 16/8/18, 0% complete]											
327	EARTHWORKS AND DRAINAGE WORKS	60 days	5 days	Wed 31/10/18	Sat 29/12/18	4 days	0%	324,326	[Gantt bar for 327: Wed 31/10/18 to Sat 29/12/18, 0% complete]											
328	ROAD WORKS	60 days	5 days	Sun 30/12/18	Wed 27/2/19	4 days	0%	327	[Gantt bar for 328: Sun 30/12/18 to Wed 27/2/19, 0% complete]											
329	BRIDGE ASSOCIATED WORKS AND WATERMAIN WORKS	120 days	10 days	Thu 28/2/19	Thu 27/6/19	4 days	0%	328	[Gantt bar for 329: Thu 28/2/19 to Thu 27/6/19, 0% complete]											
330	COMPLETION OF PORTION N	0 days		Thu 27/6/19	Thu 27/6/19	4 days	0%	329	[Milestone for 330: Thu 27/6/19]											
331	COMPLETION OF SECTION W2	0 days		Wed 16/10/19	Wed 16/10/19	-107 days	0%	224,251,273,295,308,330	[Milestone for 331: Wed 16/10/19]											
332	SECTION W3	956 days		Thu 30/6/16	Sun 10/2/19	-42 days	33%		[Summary bar for 332: Thu 30/6/16 to Sun 10/2/19, 33% complete]											
333	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	[Milestone for 333: Thu 30/6/16]											
334	CONTRACTOR DESIGN FOR RETAINING WALL	379 days		Thu 30/6/16	Thu 13/7/17	4 days	0%		[Summary bar for 334: Thu 30/6/16 to Thu 13/7/17, 0% complete]											
335	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD)	275 days		Thu 30/6/16	Fri 31/3/17	4 days	0%	333	[Gantt bar for 335: Thu 30/6/16 to Fri 31/3/17, 0% complete]											
336	REVIEW AND APPROVED BY SUPERVISOR	7 days		Sat 1/4/17	Fri 7/4/17	4 days	0%	335	[Gantt bar for 336: Sat 1/4/17 to Fri 7/4/17, 0% complete]											
337	REVIEW AND APPROVED BY PM	7 days		Sat 8/4/17	Fri 14/4/17	4 days	0%	336	[Gantt bar for 337: Sat 8/4/17 to Fri 14/4/17, 0% complete]											
338	REVIEW AND APPROVED BY GEO/HYD	90 days		Sat 15/4/17	Thu 13/7/17	4 days	0%	337	[Gantt bar for 338: Sat 15/4/17 to Thu 13/7/17, 0% complete]											
339	COMMENCEMENT OF SITE WORK	0 days		Thu 13/7/17	Thu 13/7/17	4 days	0%	338	[Milestone for 339: Thu 13/7/17]											
340	PORTION K (CH KW 1+360 - CH KW 2+070)	956 days		Thu 30/6/16	Sun 10/2/19	-42 days	42%		[Summary bar for 340: Thu 30/6/16 to Sun 10/2/19, 42% complete]											
341	POSSESSION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	333	[Milestone for 341: Thu 30/6/16]											
342	APPLICATION AND OBTAIN APPROVAL FROM MTRC FOR WORKS AT RPA	180 days	0 day	Thu 30/6/16	Mon 26/12/16	0 days	100%	341SS	[Gantt bar for 342: Thu 30/6/16 to Mon 26/12/16, 100% complete]											
343	INITIAL SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	341SS	[Gantt bar for 343: Thu 30/6/16 to Wed 27/7/16, 100% complete]											
344	TREE SURVEY	28 days	2 days	Thu 28/7/16	Wed 24/8/16	0 days	100%	343	[Gantt bar for 344: Thu 28/7/16 to Wed 24/8/16, 100% complete]											
345	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	90 days	7 days	Thu 25/8/16	Tue 22/11/16	0 days	100%	344,343	[Gantt bar for 345: Thu 25/8/16 to Tue 22/11/16, 100% complete]											
346	UTILITIES DIVERSION WORKS (CLP, PCCW & FW MAINS)	60 days	0 day	Thu 25/8/16	Sun 23/10/16	0 days	100%	344	[Gantt bar for 346: Thu 25/8/16 to Sun 23/10/16, 100% complete]											
347	GROUND INVESTIGATION WORKS (4 NOS. BOREHOLES & TRIAL PITS)	68 days	5 days	Mon 18/11/16	Fri 18/11/16	0 days	100%	345SS+18 days	[Gantt bar for 347: Mon 18/11/16 to Fri 18/11/16, 100% complete]											
348	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Mon 12/9/16	Sun 2/10/16	0 days	100%	347SS	[Gantt bar for 348: Mon 12/9/16 to Sun 2/10/16, 100% complete]											
349	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Sat 19/11/16	Fri 9/12/16	0 days	100%	347	[Gantt bar for 349: Sat 19/11/16 to Fri 9/12/16, 100% complete]											
350	RW 29C (66M)	130 days	7 days	Sat 10/12/16	Tue 18/4/17	-42 days	70%	345,346,347,349,348	[Gantt bar for 350: Sat 10/12/16 to Tue 18/4/17, 70% complete]											
351	NCE EFFECT ON ADDED SUB SOIL DRAIN (RW29C ONLY)	3 days		Wed 19/4/17	Fri 21/4/17	-42 days	0%	350	[Gantt bar for 351: Wed 19/4/17 to Fri 21/4/17, 0% complete]											
352	NCE EFFECT ON ADDED CHAMFER (RW29C ONLY)	6 days		Sat 22/4/17	Thu 27/4/17	-42 days	0%	351	[Gantt bar for 352: Sat 22/4/17 to Thu 27/4/17, 0% complete]											
353	NCE EFFECT ON ADDED WATER STOP (RW29C ONLY)	3 days		Fri 28/4/17	Sun 30/4/17	-42 days	0%	352	[Gantt bar for 353: Fri 28/4/17 to Sun 30/4/17, 0% complete]											
354	EARTHWORKS AND DRAINAGE WORKS, KW1+360 - KW1+460; KW 1+600 - KW1+900 ; KW 1+2+140 - KW 2+450	120 days	21 days	Mon 1/5/17	Mon 28/8/17	-42 days	0%	353	[Gantt bar for 354: Mon 1/5/17 to Mon 28/8/17, 0% complete]											
355	RW 29B (50M) (CSD - FILL SLOPE)	80 days	7 days	Tue 29/8/17	Thu 16/11/17	-42 days	0%	339,354	[Gantt bar for 355: Tue 29/8/17 to Thu 16/11/17, 0% complete]											
356	RW 29A (90M) (CSD - FILL SLOPE)	100 days	7 days	Fri 17/11/17	Sat 24/2/18	-42 days	0%	355	[Gantt bar for 356: Fri 17/11/17 to Sat 24/2/18, 0% complete]											



Task		Summary		External Milestone		Inactive Summary		Manual Summary Rollup		Finish-only		Progress	
Split		Project Summary		Inactive Task		Manual Task		Manual Summary		Critical		Deadline	
Milestone		External Tasks		Inactive Milestone		Duration-only		Start-only		Critical Split			

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

**APPENDIX B
ACTION AND LIMIT LEVELS FOR
NOISE**

Appendix B - Action and Limit Levels

Table B-1 Action and Limit Levels for Construction Noise

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

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

**APPENDIX C
COPIES OF CALIBRATION
CERTIFICATES**

TEST REPORT

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

Test Report No.:	C/N/160819B
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

ATTN: Mr. W.K. Tang

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Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 21459
Microphone No.	: 43676
Equipment No.	: N-08-08

Test conditions:

Room Temperature	: 24 degree Celsius
Relative Humidity	: 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

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

ATTN: Mr. W.K. Tang

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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

Test conditions:

Room Temperature	: 24 degree Celsius
Relative Humidity	: 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

TEST REPORT

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

Test Report No.: C/N/161128
Date of Issue: 2016-11-30
Date Received: 2016-11-28
Date Tested: 2016-11-28
Date Completed: 2016-11-30
Next Due Date: 2017-11-29

ATTN: Mr. W.K. Tang

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Certificate of Calibration

Item for calibration:

Description : 'SVANTEK' Integrating Sound Level Meter
Manufacturer : SVANTEK
Model No. : SVAN 957
Serial No. : 23853
Microphone No. : 48530
Equipment No. : N-08-10

Test conditions:

Room Temperature : 21 degree Celsius
Relative Humidity : 66%

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

TEST REPORT

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

Test Report No.:	C/N/160919
Date of Issue:	2016-09-21
Date Received:	2016-09-19
Date Tested:	2016-09-19
Date Completed:	2016-09-21
Next Due Date:	2017-09-20

ATTN: Mr. W.K. Tang

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Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 977
Serial No.	: 45482
Microphone No.	: 63626
Equipment No.	: N-08-14

Test conditions:

Room Temperature	: 22 degree Celsius
Relative Humidity	: 56%

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

TEST REPORT

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

Test Report No.: C/N/161216
Date of Issue: 2016-12-19
Date Received: 2016-12-16
Date Tested: 2016-12-16
Date Completed: 2016-12-19
Next Due Date: 2017-12-15

ATTN: Mr. W. K. Tang

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Certificate of Calibration

Item for calibration:

Description : Sound & Vibration Analyser
Manufacturer : BSWA
Model No. : BSWA 801
Serial No. : 35924
Equipment No. : N-13-01

Test conditions:

Room Temperature : 21 degree Celsius
Relative Humidity : 60 %

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

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

Test Report No.:	C/N/161028/1
Date of Issue:	2016-10-31
Date Received:	2016-10-28
Date Tested:	2016-10-28
Date Completed:	2016-10-31
Next Due Date:	2017-10-30

ATTN: Mr. W.K. Tang

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Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 10965
Equipment No.	: N-09-02

Test conditions:

Room Temperature	: 21 degree Celsius
Relative Humidity	: 60 %

Methodology:

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

Results:

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

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

Laboratory Manager

TEST REPORT

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

Test Report No.:	C/N/160930B
Date of Issue:	2016-10-03
Date Received:	2016-09-30
Date Tested:	2016-09-30
Date Completed:	2016-10-03
Next Due Date:	2017-10-02

ATTN: Mr. W.K. Tang

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Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24791
Equipment No.	: N-09-04

Test conditions:

Room Temperature	: 25 degree Celsius
Relative Humidity	: 60%

Methodology:

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

Results:

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

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Laboratory Manager

TEST REPORT

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

Test Report No.:	C/N/161104/1
Date of Issue:	2016-11-07
Date Received:	2016-11-04
Date Tested:	2016-11-04
Date Completed:	2016-11-07
Next Due Date:	2017-11-06

ATTN: Mr. W.K. Tang

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Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: Brüel & Kjær
Model No.	: 4231
Serial No.	: 2326353
Equipment No.	: N-02-01

Test conditions:

Room Temperature	: 21 degree Celsius
Relative Humidity	: 62 %

Methodology:

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

Results:

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

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Laboratory Manager

TEST REPORT

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

Test Report No.:	C/N/160819D
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

ATTN: Mr. W.K. Tang

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Certificate of Calibration

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: Brüel & Kjær
Model No.	: 4231
Serial No.	: 2412367
Equipment No.	: N-02-03

Test conditions:

Room Temperature	: 24 degree Celsius
Relative Humidity	: 58%

Methodology:

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

Results:

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

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

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 (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
			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					

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 (April 2017)

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

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							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Mar-17	13:45	Sunny	61.4	63.6	56.7	62.2	61.4 Measured ≤ Baseline
8-Mar-17	8:40	Cloudy	70.6	72.1	69.8		69.9
15-Mar-17	9:30	Cloudy	63.2	65.8	58.7		56.3
21-Mar-17	9:00	Sunny	61.3	63.6	58.5		61.3 Measured ≤ Baseline
27-Mar-17	9:10	Sunny	62.3	64.4	59.2		45.9

Location N2 - Bethel High School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Mar-17	13:00	Sunny	60.1	63.2	54.4	55.2	58.4
8-Mar-17	9:35	Cloudy	70.0	71.3	69.2		69.9
15-Mar-17	10:15	Cloudy	55.6	56.9	54.0		45.0
21-Mar-17	9:40	Sunny	55.6	56.9	52.3		45.0
27-Mar-17	10:00	Sunny	57.8	59.6	55.0		54.3

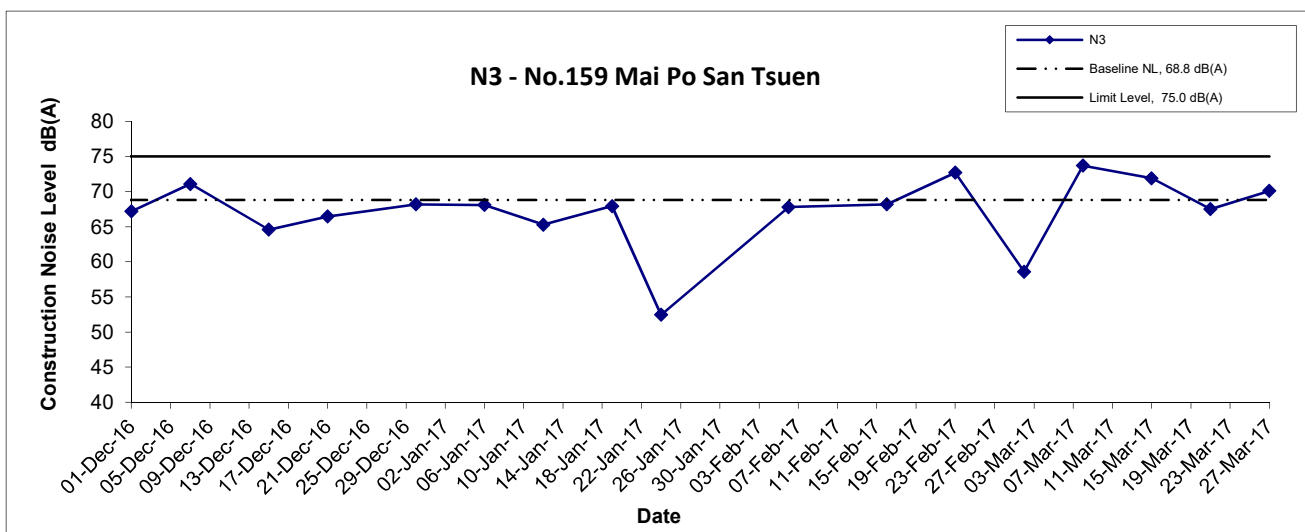
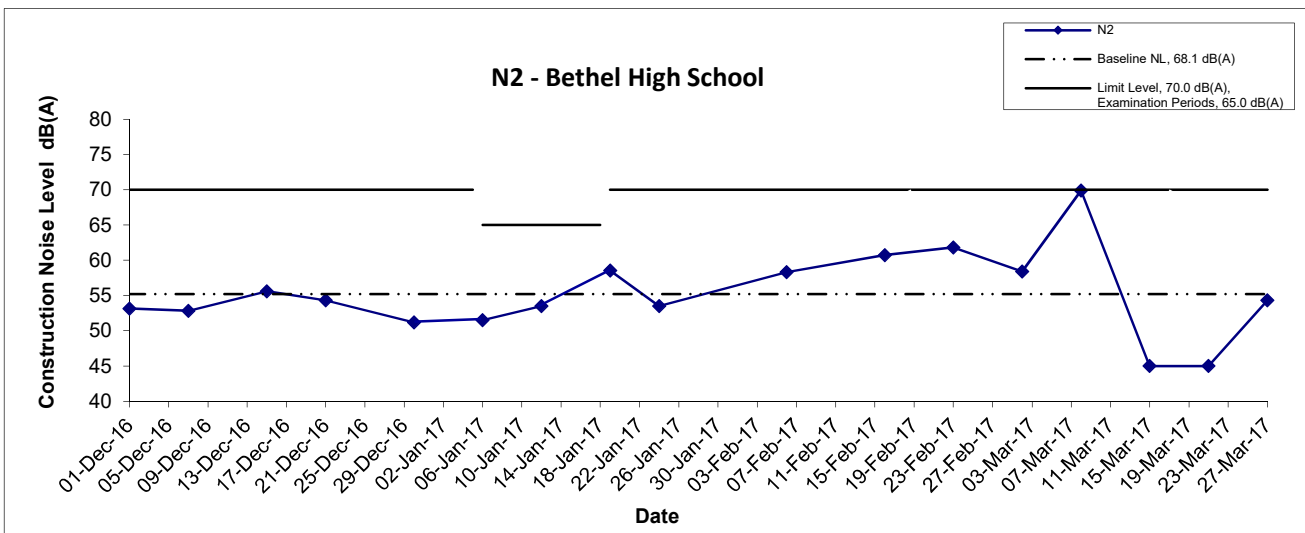
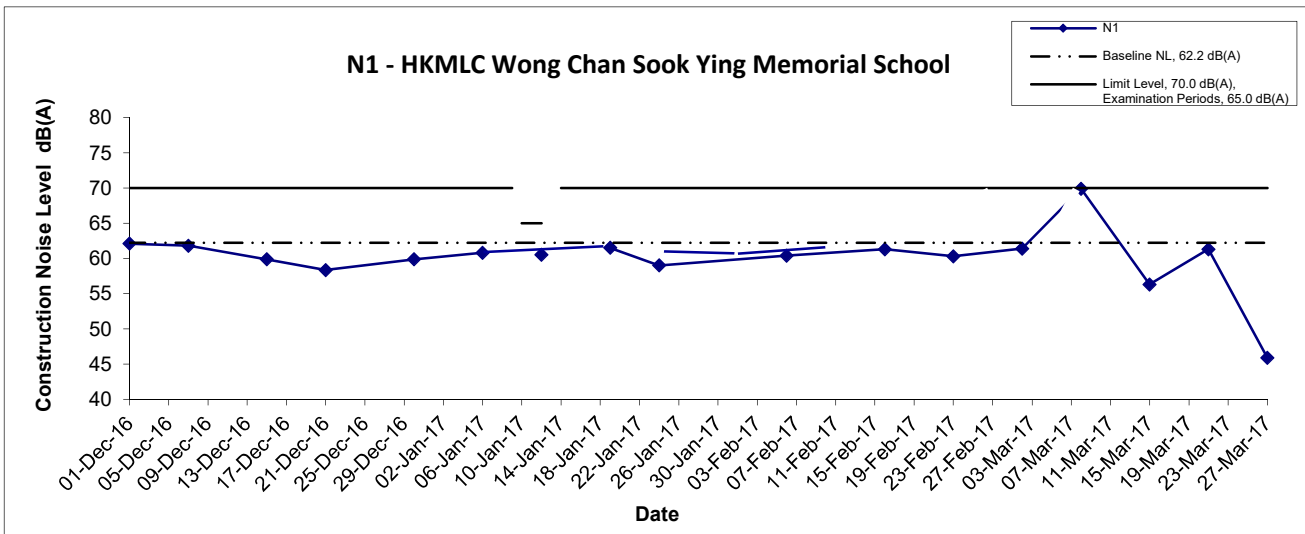
Location N3 - No.159 Mai Po San Tsuen							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Mar-17	9:55	Sunny	69.2	72.7	66.3	68.8	58.6
8-Mar-17	10:30	Cloudy	74.9	76.2	72.8		73.7
15-Mar-17	11:00	Cloudy	73.6	75.1	67.0		71.9
21-Mar-17	10:30	Sunny	71.2	73.2	67.5		67.5
27-Mar-17	10:50	Sunny	72.5	74.1	68.3		70.1

Location N5 - Block 2, Dills Corner Garden							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Mar-17	10:45	Sunny	70.8	74.1	67.2	70.7	54.4
8-Mar-17	13:25	Cloudy	76.4	77.3	75.1		75.0
15-Mar-17	13:35	Cloudy	72.8	75.8	68.2		68.6
21-Mar-17	13:00	Sunny	74.6	75.8	72.9		72.3
27-Mar-17	13:30	Sunny	74.5	76.1	71.4		72.2

Location N6 - Home of Loving Faithfulness							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Mar-17	11:30	Sunny	71.9	74.3	67.8	72.0	71.9 Measured ≤ Baseline
8-Mar-17	14:15	Cloudy	75.1	77.4	74.3		72.2
15-Mar-17	15:00	Cloudy	73.8	74.5	68.2		69.1
21-Mar-17	13:45	Sunny	73.9	74.4	68.5		69.4
27-Mar-17	14:20	Sunny	72.8	74.7	67.2		65.1

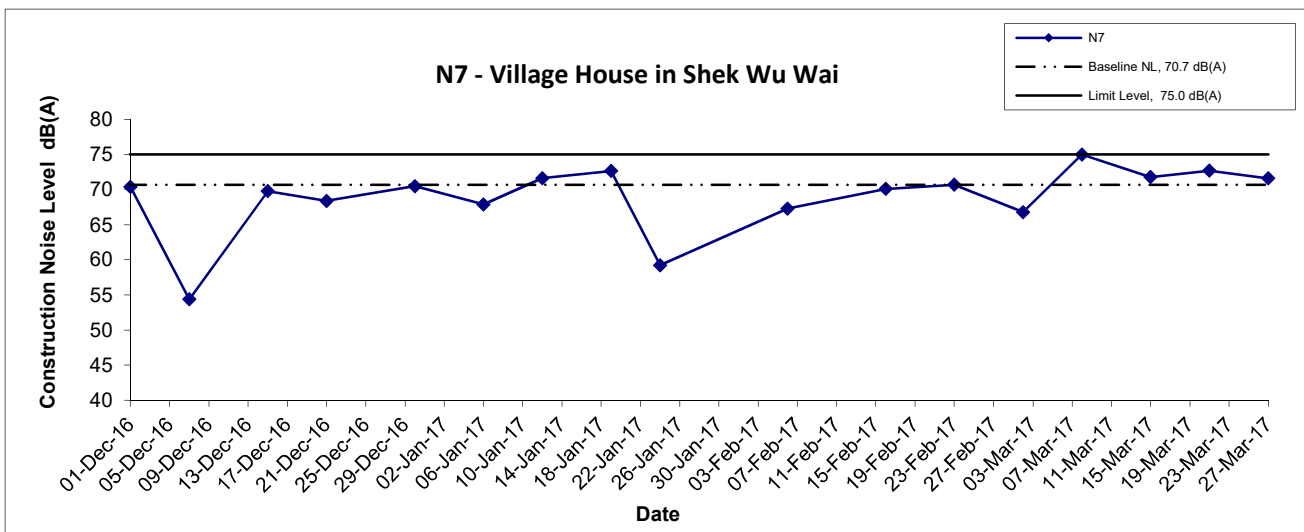
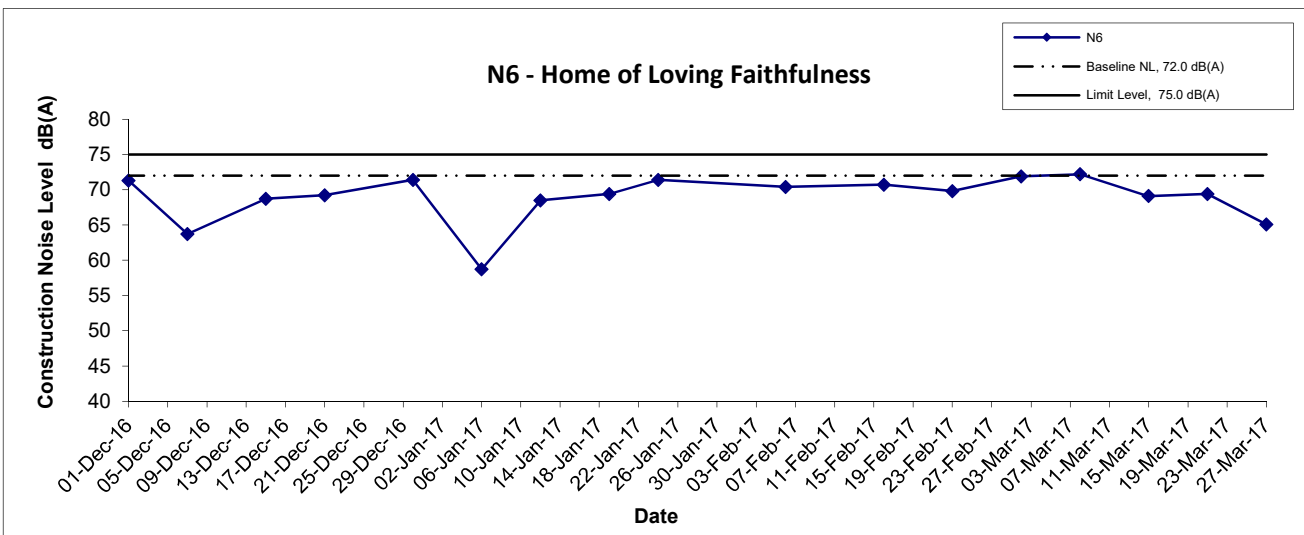
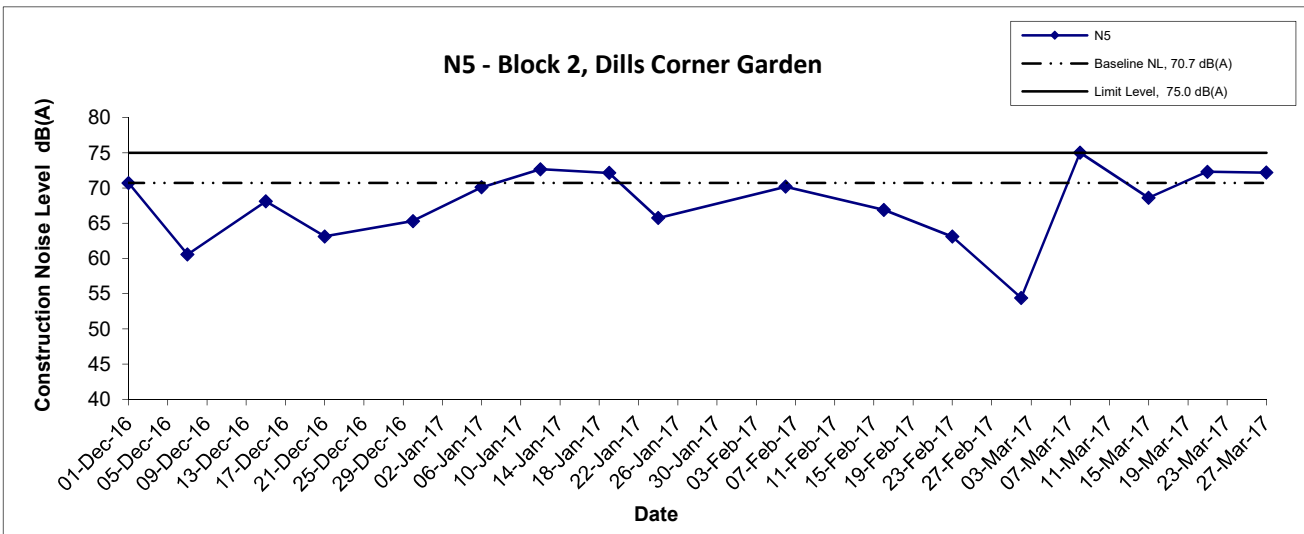
Location N7 - Village House in Shek Wui Wai							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Mar-17	13:15	Sunny	66.8	68.8	63.0	70.7	66.8 Measured ≤ Baseline
8-Mar-17	11:20	Cloudy	76.4	77.3	74.8		75.0
15-Mar-17	13:00	Cloudy	74.3	76.4	67.0		71.8
21-Mar-17	11:15	Sunny	74.8	76.9	67.1		72.7
27-Mar-17	11:30	Sunny	74.2	76.8	69.1		71.6

Noise Levels



Title Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Graphical Presentation of Construction Noise Monitoring Results	Scale	Project No.	CINOTECH
	N.T.S	MA16036	
	Date	Appendix	
	Mar 17	E	

Noise Levels



Title Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Graphical Presentation of Construction Noise Monitoring Results	Scale	Project No.	CINOTECH
	N.T.S	MA16036	
	Date	Appendix	
	Mar 17	E	

APPENDIX F
SUMMARY OF EXCEEDANCE

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

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**

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Contract No. YL/2015/01

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works


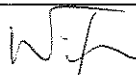
Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	170308
Date	8 March 2017 (Wednesday)
Time	10:00-12:30

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

Ref. No.	Remarks/Observations	Related Item No.
170308-O02	<p>B. Water Quality</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>C. Air Quality</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>D. Construction Noise Impact</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>E. Waste / Chemical Management</p> <ul style="list-style-type: none">Drip tray should be provided to chemical containers in Portion K and Works Area 3.	E 8
170308-O01	<p>F. Ecology and Fisheries</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>G. Landscape & Visual</p> <ul style="list-style-type: none">Fencing of tree protection zones in Works Area 3 should be provided to protect all existing trees. <p>H. Permits/Licences</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>I. Others</p> <ul style="list-style-type: none">Follow-up on previous audit session (Ref. No.: 170228), items 170228-O01, 170228-O02, 170228-F03, 170228-F04 and 170228-F05 were remarked as 170308-F03, 170308-O02, 170308-F04, 170308-F05 and 170308-F06 respectively. Review will be needed during the next audit session.	D 2

	Name	Signature	Date
Recorded by	Kelvin Koo		8 March 2017
Checked by	Dr. Priscilla Choy		8 March 2017

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Contract No. YL/2015/01

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

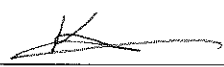

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	170315
Date	15 March 2017 (Wednesday)
Time	10:00-12:30

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

Ref. No.	Remarks/Observations	Related Item No.
170315-001	<p>B. Water Quality</p> <ul style="list-style-type: none">Sandbag bund should be provided next to the wheel washing bay in Portion C to avoid silty runoff out of the Site boundary. <p>C. Air Quality</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>D. Construction Noise Impact</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>E. Waste / Chemical Management</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>F. Ecology and Fisheries</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>G. Landscape & Visual</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>H. Permits/Licences</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>I. Others</p> <ul style="list-style-type: none">Follow-up on previous audit session (Ref. No.: 170308), items 170308-O01, 170308-O02, 170308-F03, 170308-F04, 170308-F05 and 170308-F06 were remarked as 170315-F02, 170315-F03, 170315-F04, 170315-F05, 170315-F06 and 170315-F07 respectively. Review will be needed during the next audit session.	B 16

	Name	Signature	Date
Recorded by	Kelvin Koo		15 March 2017
Checked by	Dr. Priscilla Choy		15 March 2017

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

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	170321
Date	21 March 2017 (Tuesday)
Time	10:00-12:30

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

Ref. No.	Remarks/Observations	Related Item No.
170321-O02 170321-O03	<p>B. Water Quality</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>C. Air Quality</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>D. Construction Noise Impact</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>E. Waste / Chemical Management</p> <ul style="list-style-type: none">Oil stains in Portion K should be properly removed and disposed of as chemical waste.Drip trays should be provided to chemical containers in Portion E and K.	E 8 E 8
170321-O01	<p>F. Ecology and Fisheries</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>G. Landscape & Visual</p> <ul style="list-style-type: none">Fencing of tree protection zones in Portion K should be provided to protect all existing trees. <p>H. Permits/Licences</p> <ul style="list-style-type: none">No environmental deficiency was identified during site inspection. <p>I. Others</p> <ul style="list-style-type: none">Follow-up on previous audit session (Ref. No.: 170315), items 170315-O01 and 170315-F05 were remarked as 170321-F05 and 170321-F04 respectively. Review will be needed during the next audit session.	G 2

	Name	Signature	Date
Recorded by	Kelvin Koo		21 March 2017
Checked by	Dr. Priscilla Choy		21 March 2017

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Contract No. YL/2015/01

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

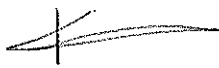

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	170329
Date	29 March 2017 (Wednesday)
Time	09:30-12:30

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

Ref. No.	Remarks/Observations	Related Item No.
170329-002	B. Water Quality <ul style="list-style-type: none">Wheel washing bays in Portion C and K were found silty and containing some litters, the water should be replaced or maintained more frequently to ensure clean water is used for wheel washing of vehicles.	B 10iii & iv
170329-001	C. Air Quality <ul style="list-style-type: none">Stockpiles in Portion A and Works Area 3 should be covered properly by tarpaulins to prevent dust generation.	C 5
	D. Construction Noise Impact <ul style="list-style-type: none">No environmental deficiency was identified during site inspection.	
170329-003	E. Waste / Chemical Management <ul style="list-style-type: none">Rubbis bins or waste collectors should be provided in Portion C for proper disposal and storage of solid waste	E 2
170321-005	<ul style="list-style-type: none">Drip trays should be provided to chemical containers in Works Area 3 and Portion E to avoid leakage at the bottom.	E 8
	F. Ecology and Fisheries <ul style="list-style-type: none">No environmental deficiency was identified during site inspection.	
170329-004	G. Landscape & Visual <ul style="list-style-type: none">Fencing of tree protection zones in Portion K should be provided to protect all existing trees.	G 2
	H. Permits/Licences <ul style="list-style-type: none">No environmental deficiency was identified during site inspection.	
	I. Others <ul style="list-style-type: none">Follow-up on previous audit session (Ref. No.: 170321), items 170321-O01 and 170321-F04 were remarked as 170329-O04 and 170329-O02 respectively. Review will be needed during the next audit session.	

	Name	Signature	Date
Recorded by	Kelvin Koo		29 March 2017
Checked by	Dr. Priscilla Choy		29 March 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 being exceeded	<ol style="list-style-type: none"> 1. Notify IC(E) and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IC(E) and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IC(E); 2. Implement noise mitigation proposals.
Limit Level being exceeded	<ol style="list-style-type: none"> 1. Notify IC(E), ER, EPD and Contractor; 2. Identify source; 3. Repeat measurement to confirm findings 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IC(E), ER and EPD the causes & actions taken for the exceedances; 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. 3. Supervise the implementation of remedial measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented; 5. If exceedance continues, consider what portion of the 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposal if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Appendix H - Event and Action Plans

	<p>7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results;</p> <p>8. If exceedance stops, cease additional monitoring</p>		<p>work is responsible and instruct the Contractor to stop that portion of the work until the exceedance is abated.</p>	
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**APPENDIX I
ENVIRONMENTAL MITIGATION
IMPLEMENTATION SCHEDULE (EMIS)**

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

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:	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> ● 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	<ul style="list-style-type: none"> ● Restricting heights from which materials are to be dropped, as far as practicable to minimize the fugitive dust arising from unloading/ loading 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> ● 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	<ul style="list-style-type: none"> ● 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 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> ● Travelling speeds should be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> ● Erection of hoarding of not less than 2.4 m high from ground level along the site boundary, where appropriate 	^
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> ● 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 	*

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> 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			
S5.5.11	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).	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Table 5-7	S.4.2.19	Use of quiet plant (PME): <ul style="list-style-type: none"> - 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 Table 5-8	S.4.2.19	Noise barrier in the form of site hoarding shall be used for the following PMEs where practicable: <ul style="list-style-type: none"> - 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
		<ul style="list-style-type: none"> - 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 PME's where practicable: <ul style="list-style-type: none"> - air compressor - hand-held breaker 	N/A(1)
S.5.6.2	S.4.2.19	The barrier / enclosure material's surface mass shall be in excess of 7 kg/m ² .	^
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.	^
S.5.6.8	S.4.2.19	The Contractor shall adopt the Code of Practice on Good Management Practice to 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 requirements and guidelines	^
S.5.6.8	S.4.2.19	Before commencing any work, the Contractor shall submit to the project Engineer 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 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	^
S.5.6.8	S.4.2.19	Unused equipment should be turned off. PME should be kept to a minimum and the parallel use of noisy equipment / machinery should be avoided	^
S.5.6.8	S.4.2.19	Regular maintenance of all plant and equipment	^
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	^
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	^
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	^
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	^

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.	^
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.	^
Construction Waste Management			
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;	^
S.7.4.1	S.6.2.6	Given the potential for secondary environmental impacts (dust, noise, water quality	^

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	<ul style="list-style-type: none"> ● The reuse/ recycling of all materials on site shall be investigated and exhausted prior to treatment/ disposal off-site 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● 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	<ul style="list-style-type: none"> ● 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) 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● 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&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 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● In order to monitor the disposal of C&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”. 	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● 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	<ul style="list-style-type: none"> ● A sufficient number of covered bins shall be provided on site for the containment of general refuse to prevent visual impacts and nuisance to the sensitive surroundings. These bins shall be cleared daily and the collected waste disposed of to the refuse transfer station. Further to the issue of ETWB Technical Circular (Works) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, the Contractor is required to maintain a clean and hygienic site throughout the project works; 	*
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● 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 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling. 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● 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. 	^
Land Contamination			
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	S.7.3.1	<p>The following control measures should be implemented when handling identified contaminated materials:</p> <ul style="list-style-type: none"> ▪ General site safety shall be enforced to include basic practices such as the use of safety boots, hard hats, coveralls, gloves and eye protection; ▪ Avoid skin contact, ingestion and inhalation of excavated contaminated soils. Basic personal protective equipment should be used; ▪ Site staff and workers shall be given adequate training and instructions specific to the potential hazards, their health and safety responsibilities and safe working practice including basic personal hygiene; ▪ Measures shall be implemented to prevent non-workers from approaching the identified works areas in order to avoid exposure to contaminants. 	N/A
S.8.7.5	S.7.3.1	<p><u>Management of Contaminated Soils</u></p> <ul style="list-style-type: none"> ▪ Where appropriate, the use of bulk handling equipment should be maximised to reduce the potential contacts between excavated contaminated materials and associated workers; ▪ The plants for excavation and transportation of the material shall be cleaned prior to leaving the Site; ▪ 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; ▪ Any vehicles transporting the material shall be suitably covered to limit potential dust emissions; ▪ Surface waters shall be diverted around any contaminated areas or stockpiles to minimize potential runoff into excavations, as runoff might increase the volume of 	N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		contaminated water requiring disposal and suspended solids in the wastewater stream	
Ecological & 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.	^
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.	^
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.	^
-	S.8.2.5 (Stage 1 only)	In order to avoid any adverse impact to the healthiness of the bamboo grove 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.	^
S.10.5.4	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.	^
-	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)	The following good work practices are recommended: <ul style="list-style-type: none"> ▪ Avoid soil storage against trees; ▪ Fence off any potentially ecologically sensitive areas; ▪ Delineation of works area to prevent encroachment onto adjacent habitats; ▪ Reinstatement of habitat after works; ▪ No on-site burning of waste; 	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		<ul style="list-style-type: none"> ▪ Waste and refuse in appropriate receptacles; ▪ 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; ▪ Regular ecological checks; and ▪ Silt/ Sediment/ Oil traps for drainage to prevent site run-off 	
Cultural Heritage 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.	N/A
Landscape and Visual			
<i>Detailed Design Phase</i>			
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 fallen 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	
<i>Construction Phase</i>			
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	^

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 government departments for approval under the lease conditions and in accordance with ETWB TCW No. 2/2004 and WB Technical Circular No. 14/2002.	N/A
	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 restored following the completion of the construction phase.	N/A
	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.	^
	CP4.3	The tree planting works should be implemented by approved Landscape Contractors	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		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-501/2015 (App No.: AEP-501/2015)	
	^ Compliance of mitigation measure;	X Non-compliance of mitigation measure;
	N/A Not Applicable at this stage; N/A(1) Not observed;	• Non-compliance but rectified by the contractor;
	* Recommendation was made during site audit but improved/rectified by the contractor.	

**APPENDIX 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: March 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

Monthly Summary Waste Flow Table for 2017 (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	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 ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
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	1.15	-	-	-	1.15	0.369	0.05	0.05	0.05	-	0.02
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
Sub-total	1.21	-	-	-	1.21	0.493	0.15	0.15	0.15	-	0.09
July	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sept	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
Total	1.21	-	-	-	1.21	0.493	0.15	0.15	0.15	-	0.09

*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 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 ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
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].